AD-903967

AMC PAMPHLET

AMCP 706-109

AD-903967

ENGINEERING DESIGN HANDBOOK

TABLES OF THE CUMULATIVE BINOMIAL PROBABILITIES

THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DDC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
U S Department of Commerce
Springfield VA 22151

HEADQUARTERS, U S ARMY MATERIEL COMMAND

JUNE 1972

Best Available Copy

DISCLAIMER NOTICE

THIS DOCUMENT IS BEST QUALITY PRACTICABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

Code 23
GSP

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY MATERIEL COMMAND
Washington, DC 20315

AMC PAMPHLET
No. 706-109

26 June 1972

ENGINEERING DESIGN HANDBOOK

TABLES OF THE CUMULATIVE BINOMIAL PROBABILITIES

FOREWORD

The Binomial Distribution and the Incomplete Beta-Function Ratio (or Pearson Type I distribution) are probability distributions which are of great importance in both the theory of probability and in its applications.

The binomial probabilities which are generated from $(q + p)^n$, where n is an integer and $q + p = 1$, constitute a discrete probability distribution which has very wide application. The Incomplete Beta-Function Ratio, defined by

$$\int_0^x p^{c-1}(1-p)^{n-c}\,dp \Big/ \int_0^1 p^{c-1}(1-p)^{n-c}\,dp = \frac{\beta_x(c,n-c+1)}{\beta(c,n-c+1)} = I_x(c,n-c+1)$$

which has been tabulated by Pearson[1] is continuous. Nevertheless, precise values of one distribution can be derived directly from the other by means of the simple identities

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r q^{n-r} = I_p(c,n-c+1)$$

$$1 - P(c+1,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r q^{n-r} = I_{1-p}(n-c,c+1)$$

$$= 1 - I_p(c+1,n-c)$$

Since the transition from the binomial distribution to the Incomplete Beta-Function requires only a simple change in parameters, which function one should tabulate is theoretically unimportant. The choice, however, is one of considerable practical importance. The *Tables of the Incomplete Beta-Function*[1] are so arranged that in many applied problems a great deal of page turning is required to extract the needed probabilities. It is believed that the tabulation of the binomial distribution in the format of the following tables is favored by many applied statisticians, especially in view of the widespread use of binomial probabilities in industrial and Government problems, in sampling inspection, and in statistical analyses generally. Indeed, the format used herein will in many practical problems effect a saving in time and provide some convenience in searching for the required probabilities.

These tables arose from computations related to the solution of some military problems during the late 1940's and early 1950's at the Ballistic Research Laboratories of the Ordnance Corps, U.S Army, Aberdeen Proving Ground, Maryland. Only the cumulative binomial probability for single

*This pamphlet replaces AMCP 706-109, *Tables of the Cumulative Binomial Probabilities*, January 1971.

† Superscript numbers refer to References listed on p. xxxii.

chances of 0.5 or less is tabulated. The Introduction points out transitions for obtaining the probability values for the upper half of the range (0.5 to 1.0) from the tabulated values of the lower half.

The computation of the tables was originally suggested by and carried out in collaboration with Dr. Frank E. Grubbs; the tabulation was done on IBM Relay Calculators at the Ballistic Research Laboratories during 1952. Valuable contributions were made to the work by Dr. Max Lotkin and others of the Computing Laboratory of the Ballistic Research Laboratories. In order to make the tables generally available to the scientific community, arrangements were made for the publication of the tables in an economical way through the Government Printing Office in 1953.

In the past year, copies of the tables have become unavailable. For this reason, the tables were made a part of the Engineering Design Handbook Series, and additional copies (with corrections) were printed. Hence, it appeared desirable to prepare a new Introduction that would be more up-to-date in applications. The work on the draft of the new Introduction was borne largely by Professor William C. Guenther of the University of Wyoming. It is hoped that the new printing, therefore, will serve wider purposes. Those contributing to this revision are: Frank E. Grubbs, William C. Guenther, Leslie E. Simon, and Helen J. Coon.

The Engineering Design Handbooks fall into two basic categories, those approved for release and sale, and those classified for security reasons. The Army Materiel Command policy is to release these Engineering Design Handbooks to other DOD activities and their contractors and other Government agencies in accordance with current Army Regulation 70-31, dated 9 September 1966. It will be noted that the majority of these Handbooks can be obtained from the National Technical Information Service (NTIS). Procedures for acquiring these Handbooks follow:

a. Activities within AMC, DOD agencies, and Government agencies other than DOD having need for the Handbooks should direct their request on an official form to:

Commanding Officer
Letterkenny Army Depot
ATTN: AMXLE-ATD
Chambersburg, Pennsylvania 17201

b. Contractors and universities must forward their requests to:

National Technical Information Service
Department of Commerce
Springfield, Virginia 22151

(Requests for classified documents must be sent, with appropriate "Need to Know" justification, to Letterkenny Army Depot.)

Comments and suggestions on this Handbook are welcome and should be addressed to:

U.S. Army Materiel Command
ATTN: AMCRD-TV
Washington, D.C. 20315.

1. INTRODUCTION

The binomial probability distribution is of considerable importance in both the theory of probability and its applications. It is the appropriate model to use in computing probabilities for a series of events or trials, or for any experiment which has the following properties:

(a) The result of each trial can be classified into one of two categories, e.g., success or failure, "good" or "defective", conforming or nonconforming.

(b) The probability p of a success is the same for each trial.

(c) Each trial is independent of all the others in the probability sense.

(d) The number of trials is fixed at, say, n.

(1-1)

Such a series of events is generated by tossing an unbiased coin 5 times and regarding the occurrence of a head as a success ($p = 1/2$), or by rolling an unbiased die 10 times and regarding the occurrence of a six as a success ($p = 1/6$), etc. In either case, it is easy to verify that Conditions 1-1 are satisfied. In a number of situations in which one desires to use the binomial distribution, there may be some doubt that conditions (b) and (c) are really met. Frequently in such cases, however, the experimenter can control certain factors in the performance of the series of experiments which make the Binomial Conditions 1-1 realistic in practical situations (as illustrated in Examples 1-1, 1-2, and 1-3).

In the die example, the same die should be rolled each time. Exactly the same procedure or type of trial is carried out ten times. Each roll and, in general, each repetition is referred to as a "trial" of the experiment. The same terminology is used if ten dice (all unbiased) are thrown simultaneously. That is, each die rolled is called a trial of the experiment even though ten different (but equivalent) "trials" have been performed. Thus, each trial is either a separate occurrence or a repetition in the same experiment. The kind of trials with which we are concerned here should satisfy Conditions 1-1.

Suppose that an experiment consisting of n trials satisfying Conditions 1-1 is performed and let X be the (random) number of successes obtained in the n trials. In most textbooks on probability, it is shown that the probability that $X = x$ is

$$b(x,n,p) = \binom{n}{x} p^x (1-p)^{n-x}, x = 0, 1, 2, \ldots, n \tag{1-2}$$

The name binomial arises from the fact that $b(x,n,p)$ is a term in the expansion of the binomial $(q+p)^n$ or $[(1-p)+p]^n$ where $q = 1-p$. In most applications we need a sum of terms rather than an individual term given by Eq. 1-2. The accompanying table gives the right-hand sum

$$\left.\begin{aligned} P(c,n,p) &= \sum_{x=c}^{n} b(x,n,p) \\ &= Pr(X \geqslant c) \\ &= Pr(c \text{ or more successes in } n \text{ trials}) \end{aligned}\right\} \tag{1-3}$$

to seven decimal places for $n = 1(1)150$, $p = .01(.01).50$ and also for $p = .001(.001).010$.

We also define the left-hand sum

$$\left.\begin{aligned} B(c,n,p) &= \sum_{x=0}^{c} b(x,n,p) \\ &= Pr(X \leqslant c) \end{aligned}\right\} \tag{1-4}$$

Since the sum of the individual probabilities in a probability distribution must sum to unity, we have

$$B(c,n,p) = 1 - P(c+1,n,p) \tag{1-5}$$

The individual terms given by Eq. 1-2 are obtained by subtraction of successive tabled values. Thus,

$$b(c,n,p) = P(c,n,p) - P(c+1,n,p) \tag{1-6}$$

It is unnecessary to tabulate sums for $p > .50$. When a $p > .50$ is encountered, one may interchange the role of p and $1-p$, i.e., success and failure, and the desired sum may be obtained from the accompanying tables for $p \leqslant .50$. The result is intuitively obvious but may be proved algebraically. In Eq. 1-3 let $x = n - y$, which leads to

$$P(c,n,p) = \sum_{y=0}^{n-c} b(y,n,1-p) = B(n-c,n,1-p) \tag{1-7}$$

Similarly, Eq. 1-4 yields

$$B(c,n,p) = P(n-c,n,1-p) \tag{1-8}$$

Some examples on the use of the tables follow.

Example 1-1

In a 25-question, 5-answer multiple-choice examination, what is the probability of getting 6 or more correct answers by (randomly) guessing? Exactly 6 correct answers? No more than 8 correct answers?

Solutions

We observe that

(a) Assuming that all the questions are answered, then each question answered is either right or wrong.

(b) For each question the probability of a correct guess is $p = 1/5 = .20$.

(c) When each answer is a guess, presumably the answer to any one question does not influence the answer to any other question. (In many multiple choice type examinations there may be real doubt as to whether the independence condition is satisfied. Undoubtedly, an appropriate examination should be planned and constructed so as to make this condition seem as realistic as possible.)

(d) The examination contains 25 questions.

Thus, the binomial probability distribution is appropriate for application here with $n = 25$ and $p = .20$. Letting X be the number of correct answers, we find from the tables

$$Pr(X \geq 6) = P(6,25,.20) = .3833106$$
$$Pr(X = 6) = Pr(X \geq 6) - Pr(X \geq 7) = P(6,25,.20) - P(7,25,.20)$$
$$= .3833106 - .2199647 = .1633459$$
$$Pr(X \leq 8) = 1 - Pr(X \geq 9) = 1 - P(9,25,.20) = 1 - .0467742 = .9532258$$

Example 1-2

Suppose that a machine produces items, 8 percent of which are defective. If a random sample of 40 items is inspected, what is the probability that 5 or more of the 40 items are defective?

Solution

Checking the Binomial Conditions 1-1, we observe that

(a) Each item can be classified as a defective or nondefective.

(b) Provided the machine remains in good condition, it is reasonable to assume that p, the probability that an item is defective, remains constant from item to item, at least for some suitably short interval of production.

(c) If the machine is inclined to produce several poor items in succession, then the independence condition will not be satisfied. Therefore, in an attempt to make both (b) and (c) realistic, one might select the sample "at random" from some accumulation of items produced by the machine.

(d) The experiment consists of "trials" of inspecting one item at a time until 40 items have been inspected.

Thus, the binomial distribution seems to be appropriate with $n = 40$ and $p = .08$. Letting X be the number of defectives observed in the sample, we find from the tables

$$Pr(X \geq 5) = P(5,40,.08) = .2132078$$

Example 1-3

For a certain variety of seed, it is hypothesized that 95 percent will germinate. If 50 seeds are planted, what is the probability that 45 or less germinate?

Solution

Checking the Binomial Conditions 1-1 we observe that

(a) A seed either germinates or it does not.

(b) If the seeds are selected at random from those seeds of the given type, it is not unreasonable to assume that p, the probability that a seed germinates, is .95 for each seed in the sample.

(c) It is reasonable to assume that seeds germinate independently of one another.

(d) The number of trials for the experiment is $n = 50$.

Thus, the binomial distribution seems to be appropriate with $n = 50$ and $p = .95$. Letting X be the number of seeds that actually germinate in a sample of size 50, we want $Pr(X \leq 45) = B(45,50,.95) = 1 - P(46,50,.95)$. Since $p = .95$ is not an entry in the table, we consider Y, the number of seeds in the sample that do not germinate. Now $p = .05$ and $X \leq 45$ corresponds to $Y \geq 5$. Hence, the desired probability is

$$Pr(Y \geq 5) = P(5,50,.05) = .1036168$$

It is noted that substitution in Eq. 1-8 also yields the correct result.

The following table might provide a useful summary:

For the probability of	When $p \leq .5$, look up	When $p \geq .5$, look up
At least c successes	$P(c,n,p)$	$1 - P(n - c + 1,n,1 - p)$
Less than c successes ($c - 1$ or less successes)	$1 - P(c,n,p)$	$P(n - c + 1,n,1 - p)$
c or less successes	$1 - P(c + 1,n,p)$	$P(n - c,n,1 - p)$
Less than $n - c + 1$ failures	$P(c,n,p)$	$1 - P(n - c + 1,n,1 - p)$
At least $n - c + 1$ failures	$1 - P(c,n,p)$	$P(n - c + 1,n,1 - p)$
Exactly c successes	$P(c,n,p) - P(c + 1,n,p)$	$P(n - c,n,1 - p) - P(n - c + 1,n,1 - p)$

2. RELATIONSHIP BETWEEN BINOMIAL PROBABILITY SUMS AND THE INCOMPLETE BETA-FUNCTION

The Incomplete Beta-Function Ratio, $I_p(A,B)$, Pearson,[1] Harter,[2] is defined by

$$I_p(A,B) = \int_0^p \frac{1}{\beta(A,B)} u^{A-1}(1-u)^{B-1}\,du \quad 0 \leq u \leq 1 \quad A, B > 0 \tag{2-1}$$

where $\beta(A,B)$ is the complete beta function of A and B, and $\beta(A,B) = \Gamma(A)\Gamma(B)/\Gamma(A+B)$ By repeated integration by parts it is easily shown that if A and B are integers, then

$$I_p(A,B) = P(A, A+B-1,p) \tag{2-2}$$

Equivalently, we have

$$I_p(c, n-c+1) = P(c,n,p) \tag{2-3}$$

which is the probability of c or more successes in a binomial type experiment. Moreover, the chance of c or less successes in n trials is given by

$$I_{1-p}(n-c, c+1) = 1 - I_p(c+1, n-c) = 1 - P(c+1,n,p) \tag{2-4}$$

In Table I of the *Tables of the Incomplete Beta-Function*, Pearson[1] has tabulated $I_p(A,B)$ to seven decimal places for all combinations of $p = .01(.01)1.00$, $A = .5(.5)11(1)50$, $B = .5(.5)11(1)50$ and $A \geq B$. (Some additional values are given in his Table III and Table IV.) Thus, for A and B integers every value tabulated by Pearson is available also in this binomial probability table. Since $A + B - 1$ has a maximum value of 99 in Pearson's table, then Eq. 2-3 can be evaluated only with n's up to 99 using his tables.

Sometimes we desire a percentage point for a binomial distribution, i. e., given c, n and α, we seek that p which satisfies either

$$P(c,n,p) = \alpha \tag{2-5}$$

or

$$B(c,n,p) = \alpha \tag{2-6}$$

In a number of practical problems linear interpolation in the binomial probability table for a percentage point will provide sufficient accuracy. If a higher degree of accuracy is desired, one could use any one of several tables. Leone, Haynam, Chu, and Topp[3] have tabulated to eight decimal places the p which satisfies Eq. 2-6 for all combinations of $n = 10(5)100$, and $\alpha = .0025$, .005, .01, .025, .05, .1, .9, .95, .975, .995, .9975. In addition, one could use one of several tables of percentage points for the Beta Distribution. For example, Harter[2] gives to seven decimal places

$$p = X(P,A,B) \tag{2-7}$$

for $A, B = 1(1)40$ and for twenty-three values of P or α. Here p is the solution of the equation

$$I_p(A,B) = P \tag{2-8}$$

and consequently the solution of Eq. 2-5 with $P = \alpha$, $c = A$ and $n - c + 1 = B$. The P or α entries for Harter's table are P = .0001, .0005, .001, .005, .01, .025, .05, .10 (.10).50. If $P > .5$, the one uses $X(P,A,B) = 1 - X(1 - P,B,A)$. Pearson and Hartley,[4] Vogler,[5] and Thompson[6] have also prepared tables of the percentage points of the incomplete beta distributions. The only entries that these tables contain which are not used by Harter are $A = 60$, $B = 60$, $P = .25$ and $P = .75$.

As is well known, the percentage points of the binomial distribution, or of the Incomplete Beta-Function Ratio, are equivalent to confidence limits on the true success ratio p, having observed c successes in a fixed sample of size n. For example, the value of p, equal to p_U say, for which

$$B(c,n,p_U) = I_{p_U}(c+1,n-c) = \alpha$$

gives an upper $1 - \alpha$ confidence limit on the true (unknown) p, and the value of p, equal to p_L say, for which

$$B(c,n,p_L) = I_{p_L}(c,n-c+1) = \alpha$$

gives a lower $1 - \alpha$ confidence limit on the true (unknown) p.

The limits p_L and p_U provide, of course, two-sided $1 - 2\alpha$ confidence limits on the true (unknown) p, and in the long run intervals so computed will capture p at least $100(1 - 2\alpha)$ percent of the time.

Thus, the tables of Harter,[2] Leone, et al.,[3] Hartley,[4] Thompson,[6] and Vogler[5] may be used to find various confidence limits on the true unknown p of the binomial distribution.

We remark also in passing that the percentage points for the binomial distribution are also confidence limits on the reliability of a "system" which consists of only one component for an observed number c of successes out of n trials in testing the component or "system".

Example 2-1

If $n = 30$, $c = 10$ and $\alpha = .05$, find solutions for Eqs. 2-5 and 2-6.

Solution

Consider first the equation $P(10,30,p) = .05$. From the binomial probability tables herewith we read $P(10,30,.19) = .04508$ and $P(10,30,.20) = .06109$, from which linear interpolation yields $p = .1931$. To use Harter's table,[2] we enter with $A = c = 10$, $B = n - c + 1 = 21$, $P = .05$, and read $p = .1933084$. To use the table prepared by the Leone group,[3] we convert the equation to $B(9,30,p) = .95$ and read $p = .19330842$.

For Eq. 2-6, we have $B(10,30,p) = .05$ and in using the binomial probability tables it is convenient to rewrite the equation as $P(11,30,p) = .95$. Then $P(11,30,.49) = .9384$, $P(11,30,.50) = .9506$ and linear interpolation yields $p = .4995$. From the latter equation we observe that to use Harter's table[2] we need $A = 11$, $B = 30 - 11 + 1 = 20$, $P = .95$. But $X(.95,11,20) = 1 - X(.05,20,11) = 1 - .5005613 = .4994387$. From the table prepared by the Leone group[3] we read directly using the equation in its original form that $p = .49943869$.

It is interesting to note that since the Snedecor F-distribution (and the Student t-distribution) is related rather easily to the beta distribution, then binomial probability sums are expressible in terms of F-probabilities. By making a transformation in Eq. 2-1, it can be shown that

$$B(c,n,p) = Pr\left[F(\nu_1,\nu_2) \geq \frac{n-c}{c+1}\,\frac{p}{1-p}\right] \tag{2-9}$$

where $F(\nu_1, \nu_2)$ follows Snedecor's F-distribution with degrees of freedom, $\nu_1 = 2(c+1)$ and $\nu_2 = 2(n-c)$. Setting Eq. 2-9 equal to α yields

$$p = \frac{(c+1)F_{1-\alpha}(2c+2,2n-2c)}{(n-c)+(c+1)F_{1-\alpha}(2c+2,2n-2c)} \tag{2-10}$$

where the quantity $F_{1-\alpha}(\nu_1, \nu_2)$ is defined by

$$Pr[F(\nu_1,\nu_2) \leq F_{1-\alpha}(\nu_1,\nu_2)] = 1-\alpha \tag{2-11}$$

The usefulness of Eq. 2-10 is somewhat restricted by insufficient tabulation of F in terms of particular degrees of freedom needed. However, the percentage points or standard probability levels for the F-distribution are widely available. Nevertheless, it is not difficult to obtain binomial percentage points by previously discussed methods.

3. THE NEGATIVE BINOMIAL DISTRIBUTION

Consider a series of events or trials for which (a), (b), and (c) of Conditions (1-1) are satisfied but condition (d) is replaced by a new condition d':

(d') The series of experiments is performed a variable number of times until a fixed number of successes (or defectives, etc.), say k, is achieved.

Letting Y be the number of trials required to obtain exactly k successes, it is easily shown that the probability that $Y = y$ is

$$b^*(y,k,p) = \binom{y-1}{k-1} p^k (1-p)^{y-k}, \quad y = k, k+1, k+2, \ldots \tag{3-1}$$

As in the binomial probability case, we are usually interested in a sum of probabilities such as Eq. 3-1. Denote the left-hand sum by

$$B^*(c,k,p) = \sum_{y=k}^{c} b^*(y,k,p) = Pr(Y \leq c) \qquad c \geq k \tag{3-2}$$

Then, we can show that

$$B^*(c,k,p) = I(k,c,p) \tag{3-3}$$

In other words

$$Pr(Y \leq c) = Pr(X \geq k) \tag{3-4}$$

where Y has a negative binomial distribution with constants k and p, and X has a binomial distribution with constants c and p. To verify the truth of Eq. 3-3, assume that for a series of experiments, (a), (b), and (c) of Conditions 1-1 are satisfied. Suppose we set as a goal the obtaining

of k successes but agree to perform no more than c trials. Then our goal can be achieved in two ways. First, if the kth success is obtained on either the kth, $k+1$th, . . ., or the cth trial, the goal is accomplished. The probability that this series of events happens is $Pr(Y \leq c)$, i.e., the left-hand side of Eq. 3-3. The second way to achieve the goal in c trials is to perform exactly c trials and obtain k, $k+1$, . . ., c successes. The probability of the latter series of events is $Pr(X \geq k)$, the right side of Eq. 3-3. In both cases we are considering the event "the goal is achieved in c trials" so that the two probabilities, therefore, must be the same.

If we define the right hand negative binomial sum by

$$P^*(c,k,p) = \sum_{y=c}^{\infty} b^*(y,k,p) = Pr(Y \geq c) \tag{3-5}$$

then we have immediately from Eq. 3-3

$$P^*(c,k,p) = 1 - P(k,c-1,p) = B(k-1,c-1,p) \tag{3-6}$$

Example 3-1

Consider again the situation of Example 1-2. However, suppose now that sampling is continued until 5 defective items are observed. What is the probability that the 5th defective is found on or before the 40th item is sampled?

Solution

We have already discussed (a), (b), and (c) of Conditions 1-1. The new condition (d') obviously applies here. Hence, we want Eq. 3-2 with $k = 5$, $p = .08$, and $c = 40$. We have from Eq. 3-3 and the tables

$$B^*(40,5,.08) = P(5,40,.08)$$

$$= .2132078$$

Example 3-2

To determine who pays for coffee, three people each toss a coin and the odd man pays. If the coins all show heads or all show tails, they are tossed again. What is the probability that a decision is reached in five repetitions or sooner?

Solution

A decision is reached on any given set of tosses if the result is two heads and a tail or two tails and a head. For any given set, the binomial is appropriate, and we identify $n = 3$ and $p = .5$ if a head is considered to be a success. Letting X be the number of heads appearing on the three coins, the probability of a decision is

$$Pr(X = 1) + Pr(X = 2)$$

$$= Pr(X \geq 1) - Pr(X \geq 3) = P(1,3,0.5) - P(3,3,0.5) = .75$$

Concerning each set of tosses we observe

(a) A decision is reached or not reached with each set.

(b) The probability of a decision is .75 for all sets.

(c) The result of each set is independent of the result for any other set.

(d') A variable number of sets is required to produce a decision.

In other words, the negative binomial conditions are satisfied with $p = .75$, $k = 1$. If Y is the number of trials required to produce one success (a decision), we want

$$Pr(Y \leqslant 5) = B^*(5,1,.75) = P(1,5,.75)$$

Using first Eq. 1-7 then Eq. 1-5 yields

$$P(1,5,.75) = B(4,5,.25) = 1 - P(5,5,.25)$$

$$= 1 - .0009766 = .9990234$$

If we let Z denote the total number of failures obtained before the kth success is achieved, then $Z + k = Y$. Making this change in Eq. 3-1 yields the alternative form

$$b^*(z,k,p) = \binom{z+k-1}{k-1} p^k (1-p)^z, \quad z = 0, 1, 2, \ldots \tag{3-7}$$

In some interesting applications (not arising in the context we have used), k is not an integer. Then Eq. 3-7 is usually written as

$$b^*(z,k,p) = \frac{\Gamma(z+k)}{z!\Gamma(k)} p^k (1-p)^z, \quad z = 0, 1, 2, \ldots \tag{3-8}$$

Now, of course, Eq 3-3 no longer applies, and special tables are required to evaluate probabilities. Williamson and Bretherton[7] have prepared a table giving

$$F(n) = Pr(Z \leqslant n) = \sum_{z=0}^{n} b^*(z,k,p)$$

to six decimal places for a wide range of p and k. The table seems to be quite adequate for a number of practical problems. For integer-valued k, the binomial tables are superior because of the fact that many more entries are available.

4. BINOMIAL APPROXIMATION TO THE HYPERGEOMETRIC DISTRIBUTION

In a number of sampling situations the following conditions are satisfied:

(a) The drawing is made from a finite population of N items.

(b) A random sample of size n is selected (drawing without replacement). (4-1)

According to Eq. 4-5

$$P(100,10,5,1) \simeq B(1,5,.10) = 1 - P(2,5,.10)$$

Hence,

$$P(X \geq 2) \simeq P(2,5,.10) = .0814600$$

Here, the actual value obtained from the Lieberman-Owen table is .076857. Of course, a higher degree of accuracy can be obtained with more complicated approximations.

Example 4-2

Approximate $P(60,16,8,4)$.

Solution

According to Eq. 4-5, we have

$$P(60,16,8,4) \simeq B\left(4,8,\frac{16}{60}\right) = 1 - P(5,8,.2667)$$

Linear interpolation in the binomial probability table yields $P(60,16,8,4) \simeq .9641$. In this case, the correct value is .974228.

5. SINGLE SAMPLING BY ATTRIBUTES AND CORRESPONDING TESTS OF HYPOTHESES

Suppose that a sample of n items is selected at random from a lot and inspected, and that each item is classified as defective or nondefective (this is usually referred to as attribute sampling). Sampling is performed so as to make Conditions 1-1 realistic. The binomial distribution is hence appropriate for computing probabilities for very large lots of items. Suppose that it is decided that if the true (unknown) fraction of defective items, say p, produced by the process is acceptably small, say p_0 (or less), then satisfactory quality is being achieved, while for some $p > p_0$ the quality is not considered satisfactory. Of course, in practice p will be unknown as indicated, and inferences will be based upon sampling. In order to make a decision we will observe X, the number of defective items in a random sample of size n, and conclude that the product is unsatisfactory if the observed value of X, say x, is too large.

Sometimes the sample size n, the acceptable quality level p_0, and a small probability α_0 (frequently .05 or .01) are specified. Then a rejection number d (so that $c = d - 1$ is called the acceptance number) is determined such that $Pr(X \geq d) \leq \alpha_0$, if $p = p_0$. That is, we require

$$P(d, n, p_0) \leq \alpha_0 \tag{5-1}$$

In other words, if actually $p = p_0$ so that the quality is satisfactory, then we wish to reject the lot with low probability α_0. Since Eq. 5-1 will not yield a unique solution, we adopt the convention of making d as small as possible. Observation in the binomial table immediately yields the required d. In terms of hypothesis testing we choose between the null and alternative hypotheses

$$H_0: p = p_0 \qquad \text{and } H_1: p > p_0$$

selecting the critical region $x \geq d$ so that the power is $\leq \alpha_0$ if $p = p_0$.

Example 5-1

Suppose $n = 20$, $p_0 = .05$ and $\alpha_0 = .05$. Find the rejection number d.

Solution

We seek the smallest d which satisfies $P(d,20,.05) \leq .05$. The binomial table yields $P(3,20,.05) = .0754837$ and $P(4,20,.05) = .0159015$.
Hence, we see that $d = 4$ (and $c = 3$).

In sampling inspection practices and in many quality control type problems, it is frequently standard procedure to specify two values of p, say an acceptable level p_0 and an unacceptable level p_1, where of course $p_0 < p_1$, and to specify two small probabilities α_0 and β_1. If actually $p = p_0$, then the product is regarded as satisfactory, and under such circumstances we would like to reach the correct conclusion with high probability, say at least $1 - \alpha_0$. On the other hand, if $p = p_1$, then the product quality is unsatisfactory and it is highly desirable that the probability of concluding incorrectly that $p = p_0$ be small, say no more than β_1. The problem is to determine the sample size n and rejection number d such that both conditions are satisfied. In symbolic form we need

$$Pr(X \geq d) \leq \alpha_0 \qquad \text{if } p = p_0$$

and

$$Pr(X \geq d) \geq 1 - \beta_1 \qquad \text{if } p = p_1$$

In terms of binomial probability sums these inequalities are

$$P(d, n, p_0) \leq \alpha_0 \tag{5-2}$$

$$P(d, n, p_1) \geq 1 - \beta_1 \tag{5-3}$$

Usually, the minimum n is desired, although this need not be the case. In terms of hypothesis testing we are choosing between

$$H_0 : p = p_0 \qquad \text{and} \qquad H_1 : p = p_1$$

by selecting a critical region $x \geq a$ such that

$$\text{Power} \leq \alpha_0 \qquad \text{if } p = p_0$$

$$\text{Power} \geq 1 - \beta_1 \qquad \text{if } p = p_1$$

The small probability $P(d,n,p_0)$ is the so-called "Type I error" or chance of rejecting the null hypothesis H_0 when it is true, and $1 - P(d,n,p_1)$ is the "Type II error" or the chance of accepting H_0 when actually the alternative hypothesis H_1 is true.

If p_0 and p_1 are entries in the binomial table, solutions for Eqs. 5-2 and 5-3 are quickly found by inspection. For a given d, the first inequality determines an integer $n_U(d)$ such that the inequality is satisfied if $n \leq n_U(d)$. Similarly, the second inequality is satisfied if n is large enough, say $n \geq n_L(d)$. If $n_L(d) > n_U(d)$ no solutions exist for the chosen d but if $n_L(d) \leq n_U(d)$, then all n such

that $n_L(d) \leqslant n \leqslant n_U(d)$ are solutions. It is easy to verify that as d is increased, both $n_L(d)$ and $n_U(d)$ increase, but the upper bound $n_U(d)$ increases at a faster rate. Hence, if solutions exist for a given value of d, they exist for all larger d. If they do not exist for a given d, then they do not exist for any smaller d. Usually one would start with $d = 1$ and increase d a unit at a time until the desired solution is found. If after a couple of tries it appears that d will be large, then d may be increased several units at a time until the vicinity of the desired solutions is reached.

Example 5-2

If $p_0 = .05$, $p_1 = .20$, $\alpha_0 = .05$, and $\beta_1 = .10$, find the sampling plan with minimum n.

Solution

The inequalities, Eqs. 5-2 and 5-3 are then $P(d,n,.05) \leqslant .05$ and $P(d,n,.20) \geqslant .90$. From the table we find that with $d = 1$ we need $n \leqslant 1$ for the first inequality and $n \geqslant 11$ for the second. The essential sums from the table are

$$P(1,1,.05) = .0500000 \qquad P(1,10,.20) = .8926258$$

$$P(1,2,.05) = .0975000 \qquad P(1,11,.20) = .9141007$$

so that with $d = 1$, we need $n \leqslant 1$ and $n \geqslant 11$. Obviously, this is impossible so solutions do not exist for $d = 1$. Similarly, we find that with

$$\begin{aligned} d &= 2 \text{ we need } n \leqslant 7 \text{ and } n \geqslant 18 \\ d &= 3 \text{ we need } n \leqslant 16 \text{ and } n \geqslant 25 \\ d &= 4 \text{ we need } n \leqslant 28 \text{ and } n \geqslant 32 \\ d &= 5 \text{ we need } n \leqslant 40 \text{ and } n \geqslant 38 \end{aligned}$$

so that the desired plan is thus $n = 38$ and $d = 5$ ($c = 4$). Obviously, solutions for the inequalities exist for all $d \geqslant 5$. For example, with $d = 6$, we find $45 \leqslant n \leqslant 53$.

Example 5-3

If $p_0 = .10$, $p_1 = .20$, $\alpha_0 = .05$, and $\beta_1 = .05$, find the sampling plan with minimum n.

Solution

The inequalities, Eqs. 5-2 and 5-3, are now $P(d,n,.10) \leqslant .05$ and $P(d,n,.20) \geqslant .95$. From the table we see that the first inequality cannot be satisfied with $d = 1$. Also with

$$\begin{aligned} d &= 2 \text{ we need } n \leqslant 3 \text{ and } n \geqslant 22 \\ d &= 3 \text{ we need } n \leqslant 8 \text{ and } n \geqslant 30 \\ d &= 4 \text{ we need } n \leqslant 14 \text{ and } n \geqslant 37 \\ d &= 5 \text{ we need } n \leqslant 20 \text{ and } n \geqslant 44 \end{aligned}$$

Since it appears that it will take a while for the upper bound to reach the lower, we therefore omit some intermediate values of d. We find for

$d = 10$ we need $n \leqslant 56$ and $n \geqslant 76$
$d = 15$ we need $n \leqslant 94$ and $n \geqslant 106$
$d = 19$ we need $n \leqslant 127$ and $n \geqslant 129$
$d = 20$ we need $n \leqslant 135$ and $n \geqslant 135$

Hence, the desired solution is $n = 135$ and $d = 20$ ($c = 19$).

When an n larger than the tabled entries is required and the p's are not too large, we recommend using an approximation given by Hald.[9] Let $\chi^2(\nu)$ have a Chi-square distribution with ν degrees of freedom and define $\chi^2_\alpha(\nu)$ by

$$Pr[\chi^2(\nu) < \chi^2_\alpha(\nu)] = \alpha$$

Then Hald's result yields

$$\frac{1}{2}\left[\chi^2_{1-\alpha_1}(2c+2)\cdot\left(\frac{1}{p_1}-.5\right)+c\right] \leqslant n \leqslant \frac{1}{2}\left[\chi^2_{\alpha_0}\left(2c+2\right)\cdot\left(\frac{1}{p_0}-.5\right)+c\right] \qquad (5\text{-}4)$$

To obtain solutions, c is increased until the upper bound exceeds the lower bound and the interval contains at least one integer.

Example 5-4

Use Eq. 5-4 to solve Example 5-3.

Solution

From Eq. 5-4 we have

$$\frac{1}{2}\left[4.5\,\chi^2_{.95}(2c+2)+c\right] \leqslant n \leqslant \frac{1}{2}\left[9.5\chi^2_{.05}(2c+2)+c\right]$$

By trial, we find

with $c = 18$, $\quad \dfrac{(4.5)(53.38)+18}{2} \leqslant n \leqslant \dfrac{(9.5)(24.88)+18}{2}$

or $\quad 129.11 \leqslant n \leqslant 127.18$

and with $c = 19$, $\quad \dfrac{(4.5)(55.76)+19}{2} \leqslant n \leqslant \dfrac{(9.5)(26.51)+19}{2}$

or $\quad 134.96 \leqslant n \leqslant 135.42$

Thus, the approximate procedure also yields
$n = 135$ and $c = 19$. Chi-square values were obtained from Harter's[2] table.

The method illustrated in Examples 5-2 and 5-3 is given in a paper by William C. Guenther, "Use of the Binomial, Hypergeometric and Poisson Tables to Obtain Sampling Plans", *Journal of Quality Technology*, Vol. 1, pp. 105-109, 1969.

In an earlier reference,[10] Grubbs (1949) gave a solution to the problem of finding the single sampling inspection plan, n and c, such that its operating characteristic curve (i. e., one minus power) passes very near two points $(1 - \alpha_0, p_0)$ and (β_1, p_1) for risks of $\alpha_0 = .05$ and $\beta_1 = .10$. In this connection, one has only to find from the $\alpha_0 = .05$ table those sampling inspection plans or various values of n_i and c_i along with p_0's very near the "desired" p_0 for which $P(c_i, n_i, p_0) \simeq .95$, and corresponding plans n_i and c_i with p_1's near the "undesired" p_1 for which $P(c_i, n_i, p_1) \cong .10$. Then, out of the two sets of plans, there is a common one, n and c, which guarantees the desired risks (very nearly) and for which n is the smallest sample size meeting with the stated conditions.

6. DISTRIBUTION-FREE β-CONTENT TOLERANCE INTERVALS

Let $X_1, X_2, \ldots, X_n$ be a random sample from a continuous distribution having unknown density function $f(x) > 0$, where $a < x < b$, and a and b are known. Denote the ordered sample by $X_{(1)}, X_{(2)}, \ldots, X_{(n)}$ and let

$$W = Pr(X_{(i)} < X < X_{(j)}) = \int_{X_{(i)}}^{X_{(j)}} f(x)\ dx \qquad i < j.$$

W is thus the fraction of the distribution captured between the ith and jth order statistics. Denoting the observed values of $X_{(i)}$ and $X_{(j)}$ by $x_{(i)}$ and $x_{(j)}$, respectively, we call $(x_{(i)}, x_{(j)})$ a two-sided tolerance interval for the distribution of X. The numbers $x_{(i)}$ and $x_{(j)}$ are usually referred to as the lower and upper tolerance limits, respectively. The intervals $(a, x_{(j)})$ and $(x_{(i)}, b)$ are called one-sided tolerance intervals.

Suppose now that we are given β and γ, two positive numbers less than 1 (but usually close to 1). If i and j are determined so that

$$Pr(W \geq \beta) = Pr\left[\int_{X_{(i)}}^{X_{(j)}} f(x)\ dx \geq \beta\right] \geq \gamma \tag{6-1}$$

then $(x_{(i)}, x_{(j)})$ is called a β-content tolerance interval. It can be shown that Eq. 6-1 can be expressed as

$$P(n - j + i + 1, n, 1 - \beta) \geq \gamma, \tag{6-2}$$

a formula which also holds for the one-sided cases if we agree to set $i = 0$ when seeking only an upper tolerance limit and to set $j = n + 1$ when seeking only a lower tolerance limit. Since $Pr(W \geq \beta)$ does not depend upon $f(x)$, the tolerance intervals are "distribution free".

Sometimes (as with sampling plans and hypothesis testing) four constants $\beta_0 < \beta_1$, and $\gamma_0 > \gamma_1$ are given. It is then desired to obtain i and j so that

$$Pr(W \geq \beta_0) \geq \gamma_0 \tag{6-3}$$

and

$$Pr(W \geq \beta_1) \leq \gamma_1 \tag{6-4}$$

In descriptive terms, it is desired that the tolerance interval should be long enough to capture (with high probability) at least a given proportion of the distribution, but also that it should not be unnecessarily long. The second condition is met by requiring the interval to capture a large proportion β_1 of the distribution with low probability γ_1. We can replace Eqs. 6-3 and 6-4 by

$$P(n-j+i+1,n,1-\beta_0) \geq \gamma_0 \tag{6-5}$$

and

$$P(n-j+i+1,n,1-\beta_1) \leq \gamma_1 \tag{6-6}$$

The three main problems considered with distribution-free β-content tolerance intervals are: (1) Given n, β, and γ, find i and j (one-sided cases), or $j-i$ (two-sided case) so that Eq. 6-2 is satisfied, and $Pr(W \geq \beta)$ is as close to γ as possible. (2) Given i, j, β, and γ, find the minimum n which satisfies Eq. 6-2. (3) Given β_0, β_1, γ_0, and γ_1, find the minimum n and accompanying i, j, or $j-i$ which satisfies both Eq. 6-3 and Eq. 6-4. Although various tabulations for these problems have appeared in the literature, all three can be solved by inspection with the probability table.

Example 6-1

If $\beta = .90$, $\gamma = .95$, and $n = 50$, find the distribution-free one-sided and two-sided β-content tolerance intervals with $Pr(W \geq .90) \geq .95$ being as nearly satisfied as possible. If $\beta = .90$, $\gamma = .95$, $i = 1$, and $j = n - 1$, find the distribution-free one-sided and two-sided β-content tolerance intervals with minimum sample size.

Solution

For the first problem, Eq. 6-2 yields for each of the three cases

$$P(i,50,.10) \geq .95,\ P(51-j,50,.10) \geq .95, \text{ and } P(51-j+i,50,.10) \geq .95.$$

By inspection we find $i = 2$, $51 - j = 2$ or $j = 49$, and $51 - (j - i) = 2$ or $j - i = 49$. Then, for the one-sided cases the desired intervals are $(x_{(2)}, \infty)$ and $(-\infty, x_{(49)})$. For the two sided case we have $(x_{(1)}, x_{(50)})$.

For the second problem, Eq. 6-2 gives

$$P(1,n,.10) \geq .95,\ P(2,n,.10) \geq .95 \text{ and } P(3,n,.10) \geq .95.$$

By observation in the table we find that to satisfy the inequalities we must have $n > 29$, $n \geq 46$, and $n \geq 61$, respectively. Then, the desired intervals are $(x_{(1)}, \infty)$ obtained with $n = 29$, $(-\infty, x_{(45)})$ obtained with $n = 46$, and $(x_{(1)}, x_{(60)})$ obtained with $n = 61$.

Example 6-2

If $\beta_0 = .90$, $\beta_1 = .99$, $\gamma_0 = .95$, and $\gamma_1 = .05$, find the distribution-free one-sided and two-sided β_0-content tolerance interval with minimum n.

Solution

Consider the two-sided case. Eqs. 6-5 and 6-6 are then

$$P(n-j+i+1,n,.10) \geq .95$$

and

$$P(n-j+i+1,n,.01) \leq .05$$

The solution is obtained by trial, starting with $n - j + i + 1 = 1$ and increasing this quantity until a solution is found. With $n - j + i + 1 = 1$, we find by observation from the table that we must have $n \geq 29$ and $n \leq 5$ to satisfy the two inequalities so that no solution is possible. With $n - j + i + 1 = 2$,

we need $n \geq 46$ and $n \leq 35$, again an impossibility. With $n = j + i + 1 = 3$ we need $n \geq 61$ and $n \leq 82$. The desired n is thus 61 and $j - i = 59$. The tolerance interval can be either $(x_{(2)}, x_{(61)})$ or $(x_{(1)}, x_{(60)})$.

With a lower tolerance limit we need $i = 3$ and $n = 61$, the tolerance interval being $(x_{(3)}, \infty)$. With an upper tolerance limit, we need $n = j + i + 1 = 3$, $n = 61$, and $j = 59$, so that the interval is $(-\infty, x_{(59)})$.

The material of this paragraph is taken from "Determination of Sample Size for Distribution-Free Tolerance Limits", William C. Guenther, *The American Statistician*, Vol. 24, 1970, pp. 44-46.

7. DOUBLE SAMPLING PLANS WITH TWO CONDITIONS ON POWER (OR OC)*

In par. 5, we considered single sampling plans which satisfied the two conditions

$$\left.\begin{array}{ll} \text{Power} \leq \alpha_0 & \text{if } p = p_0 \\ \text{Power} \geq 1 - \beta_1 & \text{if } p = p_1 > p_0 \end{array}\right\} \qquad (7\text{-}1)$$

and observed that in the equivalent hypothesis testing problem we choose between

$$H_0\colon\ p = p_0 \qquad \text{and} \qquad H_1\colon\ p = p_1$$

Now we discuss the determination of double sampling plans which satisfy the same two requirements. The type of double sampling scheme which we consider here requires two sample sizes n_1 and n_2, and two rejection numbers d_1 and d_2 (or two acceptance numbers $c_1 = d_1 - 1$ and $c_2 = d_2 - 1$). The procedure begins by inspecting a sample of size n_1 items and counting the number of defectives (or successes), say X_1. If $x_1 \leq c_1$, where x_1 is the observed value of X_1, we accept on the basis of the one initial sample. Similiarly, if $x_1 > c_2$, we reject without taking a second sample. However, if $c_1 < x_1 \leq c_2$, a second sample of size n_2 is taken and the number of defectives X_2 observed in the second sample recorded. Then, we accept if $x_1 + x_2 \leq c_2$ and reject if $x_1 + x_2 > c_2$. The major advantage of double sampling is that on the average fewer observations are required to reach a decision. (In "screening" or "rectifying" inspection - see par. 9 on Dodge-Romig LTPD Plans - less average total inspection is necessary.)

There will be many sampling plans n_1, n_2, c_1, and c_2 satisfying the given conditions. (In fact, as in the single sample case, there are an infinite number of solutions.) Consequently, in order to obtain a unique plan we can impose an additional condition. Actually, this was also done in the single sample case of par. 5, where we minimized the function $G(n,c) = n$ subject to the given power requirements. In double sampling we need to consider a function of four constants n_1, n_2, c_1, and c_2, say $G(n_1, n_2, c_1, c_2)$. Possible candidates for such a function include

(a) Any function of the average number of observations required to reach a decision.

(b) The Dodge-Romig[11] (and Eq. 9-2 that follows) average total inspection number required in screening or rectifying inspection.

(c) A generalization of the Dodge-Romig function to a cost function as proposed by A. Hald.[12]

*Operating Characteristic.

It is the responsibility of the individual designing the sampling plan to construct his own G-function so that it reflects some criteria of interest. The function can be minimized (or maximized) by trial. In this paragraph, we consider only plans which satisfy Conditions 7-1 and not the minimization (or maximization) of a G-function.

For the type of double sampling plan which we have described, it can be verified that

$$\left.\begin{aligned} \text{Power} &= K(p,n_1,n_2,d_1,d_2) \\ &= P(d_2,n_1,p) + \sum_{j=0}^{d_2-d_1-1} b(d_1+j,n_1,p)\ P(d_2-d_1-j,n_2,p) \end{aligned}\right\} \tag{7-2}$$

Consequently, we may write the two conditions of Eq. 7-1 as

$$K(p_0,n_1,n_2,d_1,d_2) \leqslant \alpha_0 \tag{7-3}$$

and

$$K(p_1,n_1,n_2,d_1,d_2) \geqslant 1-\beta_1 \tag{7-4}$$

Obtaining solutions for Eqs. 7-3 and 7-4 is accomplished by trial. If we use the information that follows, these solutions can be found rather rapidly.

To determine which double sampling plans satisfy the given power conditions, we begin by listing the single sample solutions (and nonsolutions). This information is essential to the double sample case. As demonstrated in par. 5, we can obtain the following type of information: If

$d=1$	$n \leqslant n_U(1), n \geqslant n_L(1), n_L(1) > n_U(1),$	no solution possible
$d=2$	$n \leqslant n_U(2), n \geqslant n_L(2), n_L(2) > n_U(2),$	no solution possible
	.	
	.	
	.	
$d=r-1$	$n \leqslant n_U(r-1), n \geqslant n_L(r-1), n_L(r-1) > n_U(r-1),$	no solution possible
$d=r$	$n \leqslant n_U(r), n \geqslant n_L(r),$	solutions for $n_L(r) \leqslant n \leqslant n_U(r)$
$d=r+1$	$n \leqslant n_U(r+1), n \geqslant n_L(r+1),$	solutions for $n_L(r+1) \leqslant n \leqslant n_U(r+1)$ etc.

That is, solutions exist if $d \geqslant r$ but not if $d < r$. Moreover, for the double sample case, the following comments are helpful:

(1) Double sampling plans satisfying the given power conditions exist only for all $d_2 \geqslant r$ and $d_1 = 0, 1, 2, \ldots, d_2 - 1$. If solutions exist for given d_1 and d_2 with $n_1 = n_{1m}$, the minimum n to admit solutions, then solutions exist for all n_1 such that $n_{1m} \leqslant n_1 \leqslant n_U(d)$, a set which contains the single sample solution. Ordinarily one would be interested only in solutions obtained with $d_2 = r$, since larger d_2's require larger sample sizes.

(2) Bounds on n_1 for chosen d_1 and d_2 are immediately obtainable. It can be shown that we must have

$$P(d_1,n_1,p_1) \geqslant 1-\beta_1 \tag{7-5}$$

which means $n_1 > n_{1L}$, and

$$P(d_2, n_1, p_0) \leq \alpha_0 \tag{7-6}$$

which means $n_1 \leq n_{1U}$.

Solutions do not always exist for $n_1 = n_{1L}$, but this number provides a lower bound in our search.

(3) It can be shown that $n_1 + n_2 \geq n_L(d_2)$. In other words, the combined sample for double sampling has to be at least as large as the minimum sample size possible in single sampling.

(4) For given d_1 and d_2, lower and upper bounds on n_2, say n_{2L} and n_{2U}, can be found for each n_1. Of course, if $n_2 < n_{2L}$, solutions are not possible for the chosen n_1, and n_1 has to be increased. Both n_{2L} and n_{2U} are nonincreasing functions of n_1 which behave very well, a fact which considerably reduces the number of trials required, since as n_1 increases $n_1 + n_{2L}$ rapidly approaches $n_L(d_2)$ and equals $n_L(d_2)$ for at least $n_1 = n_L(d_2)$.

In view of these observations, the recommended procedure is

(1) List the single sample solutions and nonsolutions.

(2) Select any d_2 (usually $d_2 = r$) for which solutions exist.

(3) Select any d_1 such that $1 \leq d_1 < d_2$. We would probably begin with $d_1 = 1$ and increase d_1 a unit at a time. In a number of plans used in practical situations we have $d_1 \leq d_2/2$.

(4) For chosen d_1 and d_2 determine bounds on n_1. We would probably begin looking for solutions with the smallest n_1 satisfying Eq. 7-5 and increase n_1 a unit at a time.

(5) By trial for the chosen d_1, d_2 and n_1, find bounds on n_2 determined so that the two conditions on power are satisfied. If $n_{2L} \leq n_{2U}$, then one set of solutions is the chosen d_1, d_2, n_1, and $n_{2L} \leq n_2 \leq n_{2U}$. Usually, we would prefer that n_2 be as small as possible, i.e., $n_2 = n_{2L}$.

(6) Select another n_1, d_1, d_2 and repeat Step (5), proceeding in some orderly fashion. In an application we would terminate the search when we have found the solution minimizing (or maximizing) the appropriate $G(n_1, n_2, c_1, c_2)$.

We now consider an example.

Example 7-1

Find some double sampling plans for the case $p_0 = .05$, $p_1 = .20$, $\alpha_0 = .05$, and $\beta_1 = 10$.

Solution

In Example 5-2 we considered the single sample problem using the inequalities $P(d,n,.05) \leq .05$ and $P(d,n,.20) \geq .90$

with	$d = 1$	$n \leq 1$ and	$n \geq 11$,	no solution possible
	$d = 2$	$n \leq 7$ and	$n \geq 18$,	no solution possible
	$d = 3$	$n \leq 16$ and	$n \geq 25$,	no solution possible
	$d = 4$	$n \leq 28$ and	$n \geq 32$,	no solution possible

$d = 5$	$n \leqslant 40$ and	$n \geqslant 38$,	or $38 \leqslant n \leqslant 40$
$d = 6$	$n \leqslant 53$ and	$n \geqslant 45$,	or $45 \leqslant n \leqslant 53$

etc.

Double sampling plans are then possible for $d_2 \geqslant 5$. With $d_2 = 5$ we can have $d_1 = 1, 2, 3,$ or 4. Since all solutions are obtained in a similar manner, we consider only the case $d_1 = 4$ and $d_2 = 5$.

Inequalities, Eqs. 7-5 and 7-6, are now $P(4,n_1,.20) \geqslant .90$ and $P(5,n_1,.05) \leqslant .05$. From the previous single sample results we see that these two inequalities imply $n_1 \geqslant 32$ and $n_1 \leqslant 40$.

With $n_1 = 32$, $d_1 = 4$ and $d_2 = 5$, the power at $p = .20$ is

$$K(.20,32,n_2,4,5) = P(5,32,.20) + b(4,32,.20)\ P(1,n_2,.20)$$

$$= .79562 + .11129\ P(1,n_2,.20)$$

Using the fact that $n_1 + n_2 \geqslant 38$, we find by trial

$$K(.20,32,13,4,5) = .79562 + .11129(.94502) = .90079$$

and $$K(.20,32,12,4,5) = .79562 + .11129(.93128) = .89926$$

so that $n_2 \geqslant 13$ makes power $\geqslant .90$. Similarly, with $p = .05$ we have

$$K(.05,32,n_2,4,5) = P(5,32,.05) + b(4,32,.05)\ P(1,n_2,.05).$$

By trial we obtain

$$K(.05,32,15,4,5) = .04904 \text{ and } K(.05,32,16,4,5) = .05028$$

so that $n_2 \leqslant 15$ makes power $\leqslant .05$.

Having found solutions with one n_1, less labor is required for $n_1 + 1$. With $n_1 = 33$ we find $K(.20,33,8,4,5) = .90219$ and $K(.20,33,7,4,5) = .89794$ so that $n_2 \geqslant 8$. Also, $K(.05,33,12,4,5) = .04959$ $K(.05,33,13,4,5) = .05115$ so that $n_2 \leqslant 12$.

Continuing the calculations, we soon have all the solutions for $d_1 = 4$ and $d_2 = 5$. These are

$n_1 = 32$,	$13 \leqslant n_2 \leqslant 15$	$n_1 = 37$,	$1 \leqslant n_2 \leqslant 3$
$n_1 = 33$,	$8 \leqslant n_2 \leqslant 12$	$n_1 = 38$,	$0 \leqslant n_2 \leqslant 2$
$n_1 = 34$,	$6 \leqslant n_2 \leqslant 9$	$n_1 = 39$,	$0 \leqslant n_2 \leqslant 1$
$n_1 = 35$,	$4 \leqslant n_2 \leqslant 7$	$n_1 = 40$,	$n_2 = 0$
$n_1 = 36$	$3 \leqslant n_2 \leqslant 5$		

Similarly, we could obtain all the solutions for $d_1 = 1, 2, 3$ with $d_2 = 5$. Had we sought to minimize a G-function, it would have been better to start with $d_1 = 1$ followed by $d_1 = 2$, since $d_1 = 4$ requires such a large n_1

Since the second sample may or may not be taken, it is of interest to know the average number

of observations which are required to reach a decision (i.e., the ASN or average sample number) with any double sampling plan n_1, n_2, d_1, and d_2. We see that n_1 observations are required if $x_1 \leqslant d_1 - 1$ or $x_1 \geqslant d_2$, while $n_1 + n_2$ observations must be taken if $d_1 \leqslant x_1 < d_2$. Hence, the random variable W, the total sample size, takes on the value n_1 with probability $Pr(X_1 \leqslant d_1 - 1) + Pr(X_1 \geqslant d_2)$ and the value $n_1 + n_2$ with probability $Pr(d_1 \leqslant X_1 < d_2)$, and by the definition of expected value we have that

$$E(W) = n_1[Pr(X_1 \leqslant d_1 - 1) + Pr(X_1 \geqslant d_2)] + (n_1 + n_2)[Pr(d_1 \leqslant X_1 \leqslant d_2)]$$

$$= n_1 + n_2[Pr(d_1 \leqslant X_1 \leqslant d_2)]$$

In terms of binomial sums we have then that $E(W)$ is given simply by

$$E(W) = n_1 + n_2[P(d_1, n_1, p) - P(d_2, n_1, p)] \tag{7-7}$$

for any quality level p.

8. CURTAILED AND SEMI-CURTAILED ATTRIBUTE SAMPLING: SINGLE AND DOUBLE SAMPLE CASES

Suppose that a single sample attribute plan is to be used. Sampling is performed so that the Binomial Conditions 1-1 are satisfied. The sample size n and the acceptance number c (or rejection number $c + 1 = d$) have been determined possibly to satisfy two conditions on power as in Example 5-2. The usual way to proceed is to take n observations, observe the number of defectives X, and accept if and only if $x \leqslant c$. We will call this procedure regular binomial sampling.

If observations are expensive, there are a number of ways to attempt to reduce the amount of inspection. One of these, called curtailed sampling, calls for taking observations one at a time and quitting as soon as the decision is obvious. To illustrate, consider the sampling plan of Example 5-2 where we found $n = 38$ and $c = 4$. If items are inspected one at a time, it is obvious that we could stop sampling and conclude that the process is unsatisfactory as soon as the 5th defective is observed. This could happen as early as the 5th observation or as late as the 38th observation. Similarly, once we have observed 34 nondefectives, then sampling can be terminated with the conclusion that the process is satisfactory since it is then impossible to obtain more than 4 defectives in 38 observations. Since c is usually rather small compared to n, a reasonable approximation to this curtailed sampling procedure is obtained by stopping as soon as too many defectives are observed. When this is done, the term semi-curtailed sampling is used. Intuitively, we would expect the power or OC curve to be the same whether we use regular binomial sampling, curtailed binomial sampling, or semi-curtailed binomial since the latter two procedures can be regarded as special cases of the first in which the inspector does not record all the information available to him. That our intuition is correct can be verified mathematically. In general, with curtailed sampling we stop sampling and (a) reject as soon as $c + 1$ defectives are observed, or (b) accept as soon as $n - c$ nondefectives are observed. In the semi-curtailed case we reject as soon as $c + 1$ defectives are observed, accepting if this fails to happen (in which case all n observations are made).

When sampling is curtailed or semi-curtailed, the number of observations actually required to reach a decision, say W, is a random variable which can assume values from $c + 1$ to n. It is of interest to know the expected value of W, say $E(W)$, sometimes called the average sample number (abbreviated ASN). Obviously, this average will be less than n and will depend on p. If sampling is curtailed, it can be shown that

$$E(W) = \frac{c+1}{p}[P(c+2, n+1, P)] + \frac{n-c}{1-p}[1 - P(c+1, n+1, p)] \quad (8\text{-}1)$$

The corresponding formula for semi-curtailed sampling is

$$E(W) = \frac{c+1}{p}[P(c+2, n+1, p)] + n[1 - P(c+1, n, p)] \quad (8\text{-}2)$$

Example 8-1

For the sampling plan of Example 5-2 find the average number of observations required for p = .05, .10, .15 and .20 with both curtailed and semi-curtailed sampling.

Solution

We had n = 38 and c = 4. For curtailed sampling we need

$$E(W) = \frac{5}{p}[P(6, 39, p)] + \frac{34}{1-p}[1 - P(5, 39, p)]$$

With p = .05, we have

$$E(W) = \frac{5}{.05}(.01230) + \frac{34}{.95}(1 - .04376) = 35.45$$

Similarly, with p = .10, .15, and .20, we find

$$E(W) = 34.05, 29.43, \text{ and } 24.18, \text{ respectively}$$

When sampling is semi-curtailed, we need

$$E(W) = \frac{5}{p}[P(6, 39, p)] + 38[1 - P(5, 38, p)]$$

With p = .05, we obtain

$$E(W) = \frac{5}{.05}(.01230) + 38[1 - .03973] = 37.72$$

Similarly, with p = .10, .15, and .20, we find

$$E(W) = 34.98, 29.70, \text{ and } 24.25, \text{ respectively}$$

Curtailed and semi-curtailed sampling can be used in conjunction with double sampling to further reduce the expected number of observations. Formulas for the ASN, however, are much more complicated than they are for regular double sampling. Since there is little difference in the ASN's obtained from curtailed and semi-curtailed sampling, and formulas for the latter are simpler, we will consider only the case in which semi-curtailed sampling is used in both samples. In this case then, it can be show that

$$E(W) = \frac{d_2}{p} P(d_2 + 1, n_1 + 1, p) + n_1 [1 - P(d_2, n_2, p)]$$

$$+ n_2 [P(d_1, n_1, p) - K(p, n_1, n_2, d_1, d_2)] \qquad (8\text{-}3)$$

$$+ \frac{1}{p} \sum_{j=0}^{d_2 - d_1 - 1} (d_2 - d_1 - j) b(d_1 + j, n_1, p) P(d_2 - d_1 + 1 - j, n_2 + 1, p)$$

where $K(p, n_1, n_2, d_1, d_2)$ is defined in par. 7 by Eq. 7-2. As in the single sample case, the power is the same for regular, curtailed, and semi-curtailed double sampling. Craig[1.5] gives a result equivalent to Eq. 8-3 which can be used when p, n_1, and n_2 are not entries in the table.

Example 8-2

If semi-curtailed sampling is used with both samples for the double sampling plan $n_1 = 50$, $n_2 = 100$, $d_1 = 2$, and $d_2 = 4$, find the ASN for $p = .05$ and $p = .10$.

Solution

We use Eq. 8-3. With $p = .05$, the first two terms are

$$\frac{4}{.05} P(5,51,.05) + 50 [1 - P(4,50,.05)]$$

$$= 80(.110416) + 50(.260408) = 46.8537$$

For the next term we need

$$K(.05,50,100,2,4) = P(4,50,.05) + b(2,50,.05) P(2,100,.05) + b(3,50,.05) P(1,100,.05)$$

$$= .239592 + (.261101)(.962919) + (.219875)(.994080) = .709584$$

Then the third term is

$$100[P(2,50,.05) - K(.05,50,100,2,4)]$$

$$= 100[.720568 - .709584] = 1.0984$$

The last term is

$$\frac{1}{.05}[2b(2,50,.05) P(3,101,.05) + b(3,50,.05) P(2,101,.05)] =$$

$$20[2(.261101)(.885796) + (.219875)(.964477)] = 13.4926$$

Finally, we have $E(W) = 46.8537 + 1.0984 + 13.4926 = 61.44$

Similarly, when $p = .10$, $E(W) = 38.93$.

By Eq. 7-7, it can be verified that with regular double sampling the two ASN's are, respectively, 98.10 and 71.65, which are therefore much larger.

9. DODGE-ROMIG LTPD (LOT TOLERANCE PERCENT DEFECTIVE) PLANS

Consider a product that is mass produced and is assembled at random into lots of size N. From each lot, items are drawn at random and the number of defectives in a sample of n items is observed. If the lot is accepted on the basis of the sample of n items, then all defective items found when sampling are replaced by nondefectives. If the lot is rejected on the basis of the sample, then the remainder of the lot ($N - n$ items) is also inspected and all defective items found during inspection of the lot are replaced. The procedure just described is called screening* or rectifying** inspection. Our goal here is to find single and double sample rectifying inspection plans which minimize the average total amount of inspection if the process fraction defective p is equal to $\overline{p}$, the "process average", but subject also to the condition that the power be $\geq 1 - \beta_1$ (or OC $\leq \beta_1$) if the process actually produces a fraction defective equal to an undesirable level p_1. (In the language of Dodge-Romig[11], $p_1 = p_t$ = LTPD, i.e., the lot tolerance percent defective, and β_1 = the Consumer's Risk.)

We consider first the single sample case. A sample of size n is selected at random and the number of defectives X is observed. If $x < d$ defectives are found in the sample, then the lot is accepted (defective items in the sample replaced), while if $x \geq d$ the lot is rejected and all defective items in the lot replaced. The unconditional distribution of X is a binomial probability distribution with parameters n and p, and the power is clearly given by $Pr(X \geq d) = P(d, n, p)$. The average amount of inspection per lot is thus seen to be

$$I_S = n + (N - n)P(d,n,p) \tag{9-1}$$

An LTPD rectifying inspection is obtained by minimizing Eq. 9-1 when $p = \overline{p}$ subject to the condition

$$P(d,n,p_1) \geq 1 - \beta_1 \tag{9-2}$$

(To be strictly correct, the left-hand side of Eq. 9-2 should be a sum of hypergeometric probabilities. However, as Dodge and Romig[11] have done, we use a binomial approximation.) The minimization is accomplished by trial by starting with $d = 1$ and increasing d one unit at a time. For each d, the minimum n satisfying Eq. 9-2 is found by inspection in the table, and I_S is computed for $p = \overline{p}$. Calculations should cease of course when the minimum, say $\overline{I}_S$, is observed.

Dodge-Romig[11] give some plans of this type for $\beta_1 = .10$ and for a few values of p_1.

Example 9-1

If $N = 100$, $p_1 = .10$, and $\beta_1 = .10$, find the rectifying inspection plan which minimizes the average total inspection for an average process level of $\overline{p} = .02$.

Solution

According to Eq. 9-2, we need $P(d, n, .10) \geq .90$. Using the binomial table, we find that with

$$d = 1 \text{ and } n = 22, I_S = 22 + 78\,P(1,22,.02) = 22 + 78(.35883) = 49.99$$

*A term due to Dodge and Romig.
**A term due to the British.

$$d = 2 \text{ and } n = 38,\ I_S = 38 + 62\,P(2,38,.02) = 38 + 62\,(.17603) = 48.91$$

$$d = 3 \text{ and } n = 52,\ I_S = 52 + 48\,P(3,52,.02) = 52 + 48(.08593) = 56.12$$

Further calculations are obviously unnecessary. The desired sampling plan is therefore $n = 38$ and $d = 2$ ($c = 1$) with $\bar{I}_S = 48.91$.

Next we consider the somewhat more complicated double sample case. From each lot, a random sample of size n_1 is drawn and inspected. Let X_1 be the number of defectives in the sample of n_1. If $x_1 < d_1$ defectives are found in this sample, the defective items in the sample are replaced by nondefectives and the lot is accepted without further inspection. If $x_1 \geq d_2$, the lot is rejected and totally inspected, and all defective items are replaced by good ones. If $d_1 \leq x_1 < d_2$, a second sample of size n_2 is selected at random from the remaining $N - n_1$ items, and X_2, the number of defectives in the second sample is observed. Then, if $d_1 \leq x_1 + x_2 < d_2$, the lot is accepted without further inspection, but all defective items in both samples are replaced by good ones. Finally, if $x_1 + x_2 \geq d_2$, then the lot is rejected and all defective items in the lot are replaced by acceptable items. The unconditional distributions of X_1 and X_2 are binomial with parameters p and n_1, and p and n_2, respectively. Now the average total inspection for the double sampling case is

$$I_D = n_1 + n_2 P(d_1, n_1, p) + (N - n_1 - n_2)\, K(p, n_1, n_2, d_1, d_2) \tag{9-3}$$

where the K-function is the power defined by Eq. 7-2. We seek to minimize Eq. 9-3 when $p = \bar{p}$, getting say $\bar{I}_D$, subject to the conditon

$$K(p_1, n_1, n_2, d_1, d_2) \geq 1 - \beta_1 \tag{9-4}$$

Again, minimization may be accomplished by trial. (As in the single sample case, to be strictly correct the left-hand side of Eq. 9-4 should be given in terms of hypergeometric probabilities.)

Since there are now so many possibilities, we formulate a systematic approach.

The following comments are helpful:

(1) For given n_1, d_1, and d_2, select n_2 as small as possible so as to satisfy Eq. 9-4. A larger n_2 will just make I_D larger.

(2) For every d_1 and d_2, the condition OC $\leq \beta_1$ for $p = p_1$ implies

$$P(d_1, n_1, p_1) \geq 1 - \beta_1 \tag{9-5}$$

This inequality yields a lower bound on n_1, giving $n_1 \geq n_{1L}$, say. Also if

$$P(d_2, n_1, p_1) \geq 1 - \beta_1 \tag{9-6}$$

then the power $> 1 - \beta_1$ for every n_2. Letting n_{1U} be the smallest n_1 to satisfy Eq. 9-6, we need consider only $n_1 \leq n_{1U}$. Usually it will be apparent that calculations with the given d_1 and d_2 can cease before n_1 is made as large as n_{1U}.

(3) Only for $n_1 \leq \bar{I}_S$ do we need consider the plan, since otherwise $I_D \geq \bar{I}_S$, and the objective of double sampling, to reduce average total inspection, would not be possible.

(4) For chosen d_1 and d_2 we must have $n_1 + n_2 \geqslant n_{1U}$.

(5) For chosen d_1 and d_2, it may be shown that as n_1 increases, the sum $n_1 + n_2$ is nonincreasing and has a minimum value of n_{1U}.

In a numerical problem, we suggest the following steps:

(1) Calculate $\bar{I}_S$, since, as we have already mentioned, it is not necessary to consider plans for which $I_D > \bar{I}_S$.

(2) With $d_1 = 1$, determine n_{1L} from Eq. 9-5.

(a) With $d_2 = 2$

1. Find n_{1U} from Eq. 9-6.

2. By trial, using the fact that $n_1 + n_2 \geqslant n_{1U}$, then find the minimum value of n_2, say n_{2L}, which satisfies Eq. 9-4.

3. With n_{1L} and n_{2L}, find I_D for the process average $p = \bar{p}$.

(b) Repeat (a) with $d_2 = 3$. As a first guess, for the new n_{2L} increase the old n_{2L} by the same amount n_{1U} has increased.

(c) Repeat (a) with $d_2 = 4$, etc.

Terminate the process when it is obvious that I_D must increase with any further increase in d_2.

(3) Repeat Step (2) with n_{1L} replaced by $n_{1L} + 1$. Then repeat Step (2) with n_{1L} replaced by $n_{1L} + 2$, etc., terminating the process when it is obvious that a minimum has been found for each d_2 and for which it has been necessary to consider $d_1 = 1$.

(4) Repeat Steps (2) and (3) now with $d_1 = 2$, then with $d_1 = 3$, then with $d_1 = 4$, etc., and terminate these trials when the values of I_D become too large. This happens at worst when $n_1 > \bar{I}_S$, maybe sooner.

(5) By observation, select $\bar{I}_D$.

The major advantage of these suggested proceedings is that in the calculation of power all the previous $b(d_1 + j, n_1, p)$ are used as d_2 is increased by a unit. We now consider an example.

Example 9-2

If $N = 100$, $p_1 = .10$, and $\beta_1 = .10$, find the double sampling rectifying inspection plan which minimizes the average total inspection for $\bar{p} = .02$.

Solution

In Example 9-1, we found $\bar{I}_S = 48.91$. Hence, we need consider only those plans for which $I_D < 48.91$.

As a preliminary calculation, we find the minimum n to satisfy $P(d,n,.10) \geq .90$ for a few d. From the binomial table, we find for $d = 1$ that $n = 22$, for $d = 2$ that $n = 38$, for $d = 3$ that $n = 52$, for $d = 4$ that $n = 65$, for $d = 5$ that $n = 78$, etc. Because of Eq. 9-5, the only candidates for d_1 are seen to be $d_1 = 1$ and $d_1 = 2$ since with $d_1 > 3$, $n_1 \geq 52$ and $I_D > 52$.

With $d = 1$, we need according to Eqs. 9-5 and 9-6 that $22 \leq n_1 \leq 38$. Also, we must have $n_1 + n_2 \geq 38$. With $d_1 = 1$, $d_2 = 2$ and $n_1 = 22$, the power at $p = .10$ is

$$K(.10,22,n_2,1,2) = P(2,22,.10) + b(1,22,.10)\,P(1,n_2,.10)$$

$$= .66080 + .24072\,P(1,n_2,.10)$$

By trial, we find $K(.10,22,48,1,2) = .89999$ and $K(.10,22,49,1,2) = .90014$.

Then with $n_1 = 22$, $n_2 = 49$, $d_1 = 1$, and $d_2 = 2$, we have

$$K(.02,22,49,1,2) = P(2,22,.02) + b(1.22,.02)\,P(1,49,.02)$$

$$= .07096 + (.28787)\,(.62840) = .25186$$

Thus,

$$I_D = 22 + 49\,P(1,22,.02) + 29\,K(.02,22,49,1,2)$$

$$= 22 + 49(.35883) + 29(.25186) = 46.89$$

We next take $d_2 = 3$ with $d_1 = 1$ and $n_1 = 22$.

Now $n_1 + n_2 \geq 52$, since $n_{1U} = 52$. When $p = .10$, the power is

$$K(.10,22,n_2,1,3) = P(3,22,.10) + b(1,22,.10)\,P(2,n_2,.10) + b(2,22,.10)\,P(1,n_2,.10)$$

$$= .37996 + .24072\,P(2,n_2,.10) + .28084\,P(1,n_2,.10)$$

By trial, we find

$$K(.10,22,69,1,3) = .89987 \text{ and } K(.10,22,70,1,3) = .90002$$

With $n_1 = 22$, $n_2 = 70$, $d_1 = 1$, and $d_2 = 3$, we have

$$K(.02,22,70,1,3) = P(3,22,.02) + b(1,22,.02)\,P(2,70,.02) + b(2,22,.02)\,P(1,70,.02)$$

$$= .00927 + .28787(.40956) + .06169(.75688) = .17386$$

and when $\bar{p} = .02$, we find that

$$I_D = 22 + 70\,P(1,22,.02) + 8K(.02,22,70,1,3)$$
$$= 22 + 70(.35883) + 8(.17386) = 48.51$$

Since the second term of I_D is increasing faster than the third term is decreasing, it is not necessary therefore to try $d_1 = 1$ and $d_2 = 4$.

We next repeat the above calculations with $n_1 = 23$, then with $n_1 = 24$, then with $n_1 = 25$, and terminate the calculations when it is obvious that minimum I_D have been found for $d_1 = 1, d_2 = 2$, and for $d_1 = 1$ and $d_2 = 3$. The results are as follows:

$d_1 = 1, d_2 = 2$		$d_1 = 1, d_2 = 3$	
(n_1, n_2)	I_D	(n_1, n_2)	I_D
(22, 49)	46.89	(22, 70)	48.51
(23, 29)	43.74	(23, 48)	44.47
(24, 23)	43.16	(24, 41)	43.65
(25, 19)	43.00	(25, 37)	43.66
(26, 16)	43.06	(26, 33)	43.50
(27, 14)	43.49	(27, 31)	44.08
(28, 12)	43.82	(28, 29)	44.60

Finally, we repeat all the above calculations with $d_1 = 2$. Some of the results are

$d_1 = 2, d_2 = 3$		$d_1 = 2, d_2 = 4$	
(n_1, n_2)	I_D	(n_1, n_2)	I_D
(38, 34)	47.00	(38, 54)	48.06
(39, 24)	46.98	(39, 53)	47.92
(40, 20)	47.56	(40, 38)	48.42
(41, 16)	48.03	(41, 33)	48.81
(42, 14)	48.80	(42, 30)	49.48

We observe finally that the desired plan is $n_1 = 25$, $n_2 = 19$, $d_1 = 1$ and $d_2 = 2$ with $I_D = 43.00$.

Since $\beta_1 = .10$ and $p_1 = .10$, we can compare our selection with the results tabulated by Dodge and Romig[11]. They give $n = 20$ and $d = 1$ for the single sampling inspection plan. Since $P(1,20,.10) = .87842$, the power requirement is not quite met. This plan gives $I_S = 20 + 80P(1.20,.02) = 20 + 80(.33239) = 46.59$. Recall, however, that we had $n = 38$, $d = 2$ and $\overline{I}_S = 48.91$. For the double sample case, Dodge and Romig give $n_1 = 25$, $n_2 = 13$, $d_1 = 1$ and $d_2 = 2$. The power of this plan when $p = .10$ is $K(.10,25,13,1,2) = .87752$, again not quite meeting the specified requirement. The plan also yields $I_D = 40.06$ with $\overline{p} = .02$. The Dodge-Romig solutions were tabulated for intervals on both N and $\overline{p}$, and in most cases the n's were rounded to the nearest 0 or 5. Hence, both tabled plans are reasonable approximations to the plans we found. The main advantages of the procedure of this paragraph over the Dodge-Romig tables are: (a) plans exactly meeting the specified conditions can be found, and (b) β_1 can be any value or level we choose for a particular problem.

As we observed in Example 9-2, I_D behaves fairly well, considering that parameters can assume only integer values. We conjecture that if n_1 and n_2 were continuous, then a unique relative minimum for I_D would exist.

10. METHOD OF COMPUTATION OF THE TABLES

As indicated in the Foreword to this Handbook, the function tabulated,

$$P(c,n,p) = \sum_{x=c}^{n} \binom{n}{x} p^x \, q^{n-x} \qquad (p+q=1) \tag{10-1}$$

is related to the Incomplete Beta-Function Ratio

$$I_p(c,m) = \int_0^p s^{c-1} (1-s)^{m-1} \, ds \Big/ \int_0^1 s^{c-1} (1-s)^{m-1} \, ds \tag{10-2}$$

by means of the relation

$$P(c,n,p) = I_p(c, n-c+1) \tag{10-3}$$

On the other hand, the Incomplete Beta-Function Ratio $I_p(c,m)$, is known (Pearson[1]) to satisfy the recursion formula

$$I_p(c,m) = p\, I_p(c-1,m) + q\, I_p(c,m-1) \tag{10-4}$$

Expressed in terms of the function $P = P(c,n,p)$ this recursion becomes

$$P(c,n,p) = p\, P(c-1,n-1,p) + q\, P(c,n-1,p) \tag{10-5}$$

Eq. 10-5, together with

$$P(0,n,p) = (p+q)^n = 1$$

and

$$P(n,n,p) = p^n$$

permits the determination of all the tabular values desired. For fixed p, each value of P may be obtained for each n by increasing c from 0 to n once all the values of P for $n-1$ are known. Thus, for example, for $p = 0.40$, $n = 52$, since

$P(23,51,0.40) = 0.2723344$, and
$P(24,51,0.40) = 0.1872942$ are known, then
$P(24,52,0.40) = 0.4(0.2723344) + 0.6(0.1872942) = 0.22131028$

The computations for the original table, Army Ordnance Corps Pamphlet ORDP 20-1, dated September 1952, were carried out on the IBM Relay Calculators. The values of P were computed to twelve decimals, which were rounded back to seven decimals for the final listings. For the supplementary table—pages 578 through 626—involving $p = .001(.001).010$, the Card Programmed Calculator, which was capable of operating with ten decimal numbers, was used.

REFERENCES

1. Karl Pearson, *Tables of the Incomplete Beta-Function*, (2nd Edition), Published for the Biometrika Trustees at the Cambridge University Press. (U. S. A. Branch: 32 E. 57th Street, New York, N. Y. 10022), 1968.

2. Leon H. Harter, *New Tables of the Incomplete Gamma Function Ratio and of Percentage Points of the Chi-Square and Beta Distribution*, Superintendent of Documents, U. S. Government Printing Office, Washington, D. C., 1964.

3. F. C. Leone, G. E. Haynam, J.T. Chu, and C.W. Topp, *Percentiles of the Binomial Distribution*, Statistical Laboratory, Case Institute of Technology, Cleveland, Ohio, 1960.

4. E. S. Pearson and H. O. Hartley, *Biometrika Tables for Statisticians*, I, (3rd Ed.), Published for the Biometrika Trustees at the Cambridge University Press, 1966.

5. L. E. Vogler, *Percentage Points of the Beta Distribution*, National Bureau of Standards, Boulder, Colorado, 1964.

6. C. Thompson, "Tables of Percentage Points of the Incomplete Beta Function", *Biometrika*, Vol. 32, pp. 151-181, 1941.

7. Eric Williamson and Michael H. Bretherton, *Tables of the Negative Binomial Probability Distribution*, John Wiley and Sons, New York, 1963.

8. Gerald J. Lieberman and Donald B. Owen, *Tables of the Hypergeometric Probability Distribution*, Stanford University Press, Stanford, California, 1961.

9. A. Hald, "The Determination of Single Sampling Attribute Plans with Given Producer's and Consumer's Risk", *Technometrics*, Vol. 9, pp. 401-415, 1967.

10. Frank E. Grubbs, "On Designing Single Sampling Inspection Plans", *The Annals of Mathematical Statistics*, Vol. 20 No. 2, June 1949, pp. 242-256.

11. Harold F. Dodge and Harry G. Romig, *Sampling Inspection Tables, Single and Double Sampling*, 2nd Edition, John Wiley and Sons, New York, 1959.

12. Anders Hald, "On the Theory of Single Sampling Inspection by Attributes Based on Two Quality Levels", *Review of the International Statistical Institute*, Vol. 35, pp. 1-29, 1967.

13. C. C. Craig, "The Average Sample Number for Truncated Single and Double Acceptance Sampling Plans", *Technometrics*, Vol. 10, pp. 685-692, 1968.

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

p%	.01	.02	.03	.04	.05	.06	.07	.08
1%	.0100000	.0200000	.0300000	.0400000	.0500000	.0600000	.0700000	.0800000
p%	.09	.10	.11	.12	.13	.14	.15	.16
1%	.0900000	.1000000	.1100000	.1200000	.1300000	.1400000	.1500000	.1600000
p%	.17	.18	.19	.20	.21	.22	.23	.24
1%	.1700000	.1800000	.1900000	.2000000	.2100000	.2200000	.2300000	.2400000
p%	.25	.26	.27	.28	.29	.30	.31	.32
1%	.2500000	.2600000	.2700000	.2800000	.2900000	.3000000	.3100000	.3200000
p%	.33	.34	.35	.36	.37	.38	.39	.40
1%	.3300000	.3400000	.3500000	.3600000	.3700000	.3800000	.3900000	.4000000
p%	.41	.42	.43	.44	.45	.46	.47	.48
1%	.4100000	.4200000	.4300000	.4400000	.4500000	.4600000	.4700000	.4800000
p%	.49	.50						
1%	.4900000	.5000000						

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 2$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.0199000	.0396000	.0591000	.0784000	.0975000	.1164000	.1351000	.1536000
2	.0001000	.0004000	.0009000	.0016000	.0025000	.0036000	.0049000	.0064000

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.1719000	.1900000	.2079000	.2256000	.2431000	.2604000	.2775000	.2944000
2	.0081000	.0100000	.0121000	.0144000	.0169000	.0196000	.0225000	.0256000

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.3111000	.3276000	.3439000	.3600000	.3759000	.3916000	.4071000	.4224000
2	.0289000	.0324000	.0361000	.0400000	.0441000	.0484000	.0529000	.0576000

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.4375000	.4524000	.4671000	.4816000	.4959000	.5100000	.5239000	.5376000
2	.0625000	.0676000	.0729000	.0784000	.0841000	.0900000	.0961000	.1024000

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.5511000	.5644000	.5775000	.5904000	.6031000	.6156000	.6279000	.6400000
2	.1089000	.1156000	.1225000	.1296000	.1369000	.1444000	.1521000	.1600000

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.6519000	.6636000	.6751000	.6864000	.6975000	.7084000	.7191000	.7296000
2	.1681000	.1764000	.1849000	.1936000	.2025000	.2116000	.2209000	.2304000

x	.49	.50
1	.7399000	.7500000
2	.2401000	.2500000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 3

c	.01	.02	.03	.04	.05	.06	.07	.08
1	.0297010	.0588080	.0873270	.1153640	.1426250	.1694160	.1956430	.2213120
2	.0002980	.0011840	.0026460	.0046720	.0072500	.0103680	.0140140	.0181760
3	.0000010	.0000080	.0000270	.0000640	.0001250	.0002160	.0003430	.0005120

c	.09	.10	.11	.12	.13	.14	.15	.16
1	.2464290	.2710000	.2950310	.3185280	.3414970	.3639440	.3858750	.4072960
2	.0228480	.0280000	.0336380	.0397440	.0463060	.0533120	.0607500	.0686080
3	.0007290	.0010000	.0013310	.0017280	.0021970	.0027440	.0033750	.0040960

c	.17	.18	.19	.20	.21	.22	.23	.24
1	.4288130	.4486320	.4678590	.4880000	.5069610	.5254480	.5434670	.5610240
2	.0768740	.0855160	.0943820	.1040000	.1137780	.1239040	.1343660	.1451520
3	.0049130	.0058320	.0068500	.0080000	.0092610	.0106480	.0121670	.0138240

c	.25	.26	.27	.28	.29	.30	.31	.32
1	.5781250	.5947750	.6109630	.6267520	.6420890	.6570000	.6714910	.6855680
2	.1562500	.1676480	.1793340	.1912960	.2035230	.2160000	.2287160	.2416640
3	.0156250	.0175760	.0196630	.0219520	.0243890	.0270000	.0297910	.0327680

c	.33	.34	.35	.36	.37	.38	.39	.40
1	.6994370	.7125040	.7253750	.7378560	.7499530	.7616720	.7730190	.7840000
2	.2548260	.2681920	.2817500	.2954080	.3093940	.3234560	.3376620	.3520000
3	.0359370	.0393040	.0428750	.0466560	.0506530	.0548720	.0593190	.0640000

c	.41	.42	.43	.44	.45	.46	.47	.48
1	.7946210	.8048880	.8148070	.8243840	.8336250	.8425360	.8511230	.8593920
2	.3664580	.3810240	.3956860	.4104320	.4252500	.4401280	.4550540	.4700160
3	.0689210	.0740880	.0795070	.0851840	.0911250	.0973360	.1038230	.1105920

c	.49	.50
1	.8673490	.8750000
2	.4850020	.5000000
3	.1176490	.1250000

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 4

r	p = .01	.02	.03	.04	.05	.06	.07	.08
1	.0394040	.0776318	.1147072	.1506534	.1854938	.2192510	.8519480	.2836070
2	.0005920	.0023365	.0051864	.0090957	.0140188	.0199109	.0267880	.0344269
3	.0000040	.0000315	.0001056	.0002483	.0004813	.0006851	.0013000	.0019251
4		.0000008	.0000008	.0000026	.0000063	.0000130	.0000240	.0000410

r	p = .09	.10	.11	.12	.13	.14	.15	.16
1	.3148804	.3439000	.3725776	.4003046	.4271824	.4529918	.4779938	.5021206
2	.0489648	.0523000	.0683918	.0731981	.0846808	.0968005	.1095188	.1227901
3	.0027198	.0037000	.0048848	.0062899	.0079318	.0098255	.0119815	.0144179
4	.0000656	.0001000	.0001464	.0002074	.0002856	.0003842	.0005063	.0006554

r	p = .17	.18	.19	.20	.21	.22	.23	.24
1	.5254168	.5478782	.5695328	.5904000	.6104992	.6298494	.6484696	.6663782
2	.1366016	.1508933	.1656376	.1808000	.1963464	.2122437	.2284598	.2449613
3	.0171464	.0201787	.0235264	.0272000	.0312096	.0355643	.0402726	.0453427
4	.0008359	.0010498	.0013032	.0016000	.0019448	.0023486	.0027984	.0033178

r	p = .25	.26	.27	.28	.29	.30	.31	.32
1	.6835938	.7001348	.7160176	.7312614	.7458832	.7599000	.7733288	.7861862
2	.2617188	.2787013	.2958792	.3132237	.3307064	.3483000	.3659776	.3837153
3	.0507813	.0565947	.0627488	.0693683	.0763376	.0837000	.0914584	.0996147
4	.0039063	.0045698	.0053144	.0061466	.0070728	.0081000	.0092352	.0104858

r	p = .33	.34	.35	.36	.37	.38	.39	.40
1	.7984888	.8102526	.8214938	.8322878	.8424704	.8522366	.8615416	.8704000
2	.4014616	.4192581	.4370188	.4547405	.4724008	.4899781	.5074518	.5248000
3	.1081704	.1171859	.1264813	.1362355	.1463872	.1569339	.1678728	.1792000
4	.0116592	.0133634	.0150063	.0167962	.0187416	.0208514	.0231344	.0256000

r	p = .41	.42	.43	.44	.45	.46	.47	.48
1	.8788864	.8868330	.8944400	.9016550	.9084938	.9149694	.9210988	.9268038
2	.5430048	.5590469	.5750080	.5908709	.6090188	.6258357	.6418064	.6569169
3	.1909112	.2030011	.2154640	.2282931	.2414813	.2550203	.2688016	.2831155
4	.0282574	.0311170	.0341880	.0374810	.0410063	.0447746	.0487968	.0530848

r	p = .49	.50
1	.9323480	.9375000
2	.6723520	.6875000
3	.2976580	.3125000
4	.0576480	.0625000

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 5

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.04901000	.09607920	.14126600	.18462730	.22621910	.26609600	.30433116	.34091056
2	.00098010	.00388416	.00847210	.01475800	.02258925	.03187130	.04249334	.05436130
3	.00000990	.00007760	.00025380	.00060220	.00115810	.00197030	.00307990	.00451530
4		.00000080	.00000400	.00001240	.00003000	.00006170	.00011330	.00019170
5				.00000010	.00000030	.00000060	.00000170	.00000330

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.37599679	.40951000	.44159410	.47232681	.50157910	.52957300	.55689470	.58017881
2	.06736085	.08146000	.09651170	.11245090	.12919560	.14666670	.16479000	.18349100
3	.00634130	.00856600	.01121050	.01431690	.01790660	.02200090	.02661190	.03175870
4	.00030440	.00046000	.00066760	.00093730	.00127050	.00170570	.00223780	.00288740
5	.00000590	.00001000	.00001610	.00002490	.00003710	.00005380	.00007590	.00010490

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.60609590	.62926020	.65132160	.67232000	.69229440	.71128080	.72932160	.74644750
2	.20270020	.22235060	.24237770	.26272000	.28331650	.30411690	.32506160	.34610140
3	.03745380	.04370730	.05052750	.05792000	.06588080	.07443380	.08355570	.09325120
4	.00360810	.00449300	.00552560	.00672000	.00809040	.00965130	.01141750	.01340380
5	.00014200	.00018900	.00024760	.00032000	.00040840	.00051540	.00064360	.00079630

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.76269530	.77809930	.79269280	.80650880	.81957710	.83193000	.84359690	.85460660
2	.36718750	.38827380	.40931660	.43027430	.45110770	.47178000	.49228560	.51250460
3	.10351560	.11434240	.12572830	.13764760	.15010450	.16308000	.17655930	.19052630
4	.01562500	.01809620	.02083830	.02384870	.02715960	.03078000	.03472440	.03900700
5	.00097660	.00118810	.00143490	.00172100	.00205110	.00243000	.00286290	.00335540

r	.33	.34	.35	.36	.37	.38	.39	.40
1	.86498675	.87476670	.88397090	.89263580	.90075630	.90838670	.91553040	.92224000
2	.53249410	.55219620	.57158500	.59063590	.60932660	.62763630	.64555650	.66304000
3	.20496430	.21985090	.23514940	.25089730	.26701220	.28349070	.30030840	.31744000
4	.04364150	.04866420	.05402850	.05972940	.06597050	.07256870	.07950240	.08704000
5	.00391350	.00454350	.00525280	.00604660	.00693440	.00792350	.00902240	.01024000

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.92850760	.93436430	.93983080	.94492660	.94967160	.95408350	.95818050	.96197960
2	.68010170	.69671790	.71287600	.72856790	.74378250	.75851320	.77275410	.78650080
3	.33486960	.35285400	.37045490	.38765750	.40446730	.42089190	.43693840	.45260400
4	.09494560	.10330830	.11211670	.12143030	.13122000	.14148760	.15222460	.16343990
5	.01150560	.01306490	.01470080	.01641910	.01824280	.02057650	.02293450	.02534800

r	.49	.50
1	.96549750	.96875000
2	.79975010	.81250000
3	.48135500	.50000000
4	.17502500	.18750000
5	.02883470	.03125000

$$B(x,n,p) = \sum_{r=0}^{x} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 6$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.0585199	.1141596	.1670280	.2173422	.2649081	.3101302	.3530098	.3936490
2	.0014604	.0056071	.0124659	.0215526	.0327736	.0459246	.0608807	.0772859
3	.0000196	.0001829	.0005044	.0011684	.0023898	.0037643	.0058369	.0084191
4	.0000001	.0000083	.0000116	.0000360	.0000864	.0001762	.0003210	.0005384
5			.0000001	.0000006	.0000018	.0000044	.0000095	.0000184
6							.0000001	.0000003

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.4381307	.4685590	.5010187	.5356259	.5643738	.5984328	.6288508	.6487080
2	.0951634	.1148650	.1344700	.1586289	.1776055	.1803741	.2235157	.2478185
3	.0110348	.0135500	.0205936	.0260947	.0383759	.0396537	.0473386	.0560359
4	.0008477	.0018700	.0018273	.0025431	.0034413	.0048469	.0056859	.0074816
5	.0000388	.0000550	.0000878	.0001344	.0001986	.0002850	.0003987	.0005453
6	.0000005	.0000010	.0000018	.0000030	.0000048	.0000075	.0000114	.0000168

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.6730596	.6959933	.7176705	.7378560	.7569135	.7748004	.7915776	.8073001
2	.2712775	.2958943	.3200770	.3446400	.3692034	.3936934	.4180414	.4421844
3	.0654437	.0758431	.0869790	.0988800	.1115487	.1249641	.1391080	.1539352
4	.0093619	.0115816	.0140760	.0169300	.0202880	.0239035	.0280093	.0325671
5	.0007319	.0009637	.0012504	.0016000	.0020216	.0025253	.0031316	.0038221
6	.0000341	.0000540	.0000470	.0000640	.0000858	.0001134	.0001480	.0001911

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.8220215	.8357935	.8486658	.8606659	.8718947	.8823510	.8920818	.9011325
2	.4660645	.4896285	.5128802	.5356198	.5579636	.5798350	.6011720	.6219773
3	.1694036	.1855646	.2022934	.2195838	.2373955	.2556900	.2744855	.2935495
4	.0375977	.0431803	.0491530	.0557124	.0628136	.0704700	.0786938	.0874938
5	.0046367	.0055842	.0066782	.0079168	.0093726	.0109580	.0127400	.0147640
6	.0002441	.0003089	.0003874	.0004819	.0005940	.0007290	.0008875	.0010737

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9095414	.9173460	.9245811	.9312005	.9374765	.9431098	.9484706	.9533440
2	.6422166	.6618702	.6809201	.6993523	.7171550	.7343215	.7508441	.7667200
3	.3130403	.3328483	.3527148	.3732032	.5936685	.4142660	.4349518	.4556800
4	.0968779	.1068834	.1174239	.1285914	.1403559	.1527154	.1656655	.1792000
5	.0170239	.0195372	.0223318	.0253958	.0287977	.0324864	.0365408	.0409600
6	.0012915	.0015446	.0018383	.0021768	.0025657	.0030109	.0035187	.0040960

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.9578195	.9619313	.9657036	.9691590	.9723194	.9752051	.9778356	.9802894
2	.7819481	.7965894	.8104670	.8237658	.8364396	.8484 55	.8599045	.8707306
3	.4764086	.4970949	.5176963	.5381721	.5584823	.5785885	.5984534	.6180412
4	.1933103	.2079858	.2231135	.2386786	.2545639	.2707508	.2873163	.3042388
5	.0457632	.0509696	.0563963	.0620682	.0681900	.0762063	.0837109	.0917294
6	.0047501	.0054890	.0063214	.0072563	.0083018	.0094743	.0107798	.0122306

x	.49	.50
1	.9824037	.9843750
2	.8809663	.8906250
3	.6373174	.6562500
4	.3851984	.3437500
5	.1006787	.1093750
6	.0138413	.0156250

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.0679347	.1318745	.1900192	.2485505	.3016607	.3515224	.3902991	.4421514
2	.0020310	.0078565	.0170930	.0301803	.0443405	.0617771	.0818739	.1005842
3	.0000340	.0002616	.0008630	.0019030	.0037590	.0068940	.0006876	.0140140
4	.0000007	.0000055	.0000264	.0000815	.0001936	.0003715	.0007078	.0011761
5		.0000001	.0000005	.0000019	.0000060	.0000149	.0000313	.0000600
6					.0000001	.0000003	.0000008	.0000017

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.4838390	.5217031	.5576867	.5911044	.6224452	.6550782	.6794829	.7049097
2	.1264814	.1496944	.1750111	.2010850	.2281454	.2555963	.2834159	.3114859
3	.0147335	.0256915	.0331201	.0416308	.0513550	.0617685	.0737659	.0866851
4	.0018366	.0027280	.0038916	.0053693	.0070088	.0094336	.0118018	.0150503
5	.0001061	.0001765	.0002791	.0004234	.0006202	.0008817	.0011816	.0016561
6	.0000034	.0000064	.0000119	.0000188	.0000300	.0000464	.0000698	.0001013
7		.0000001	.0000002	.0000004	.0000006	.0000011	.0000017	.0000027

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.7386395	.7507145	.7718181	.7905848	.8079609	.8241441	.8395148	.8535401
2	.3395804	.3676661	.3956008	.4230038	.4506884	.4777369	.5033547	.5292188
3	.1005201	.1164147	.1312677	.1448030	.1656518	.1840045	.2038581	.2231150
4	.0189131	.0231276	.0279276	.0333440	.0394051	.0461360	.0535606	.0616955
5	.0021984	.0028695	.0036873	.0046780	.0058440	.0072885	.0090458	.0107809
6	.0001443	.0002014	.0002753	.0003712	.0004923	.0006440	.0008380	.0010685
7	.0000041	.0000061	.0000089	.0001200	.0001580	.0002049	.0002640	.0003459

N	.25	.26	.27	.28	.29	.30	.31	.32
1	.8665161	.8784872	.8895260	.8996919	.9090480	.9176457	.9255365	.9327701
2	.5580537	.5796314	.6015043	.6236303	.6490058	.6705088	.6913541	.7113070
3	.2435913	.2646812	.2861378	.3080715	.3301667	.3525305	.3757169	.3996531
4	.0705566	.0801558	.0905009	.1015962	.1134424	.1260360	.1397708	.1547344
5	.0129784	.0151436	.0181420	.0213946	.0248481	.0287955	.0331868	.0381073
6	.0013409	.0016805	.0020843	.0025617	.0031208	.0037900	.0045618	.0054546
7	.0000610	.0000803	.0001046	.0001345	.0001725	.0002187	.0002751	.0003434

N	.33	.34	.35	.36	.37	.38	.39	.40
1	.9393909	.9454484	.9509777	.9560195	.9606100	.9647839	.9685786	.9720064
2	.7304345	.7487330	.7662014	.7828465	.7986743	.8136952	.8279019	.8413696
3	.4216739	.4447152	.4677167	.4906169	.5133587	.5358871	.5581494	.5800966
4	.1680141	.1836917	.1998457	.2166517	.2340816	.2521946	.2710666	.2907970
5	.0433757	.0490847	.0556075	.0629462	.0709617	.0797734	.0894994	.1002560
6	.0064833	.0076600	.0090075	.0105356	.0122648	.0142116	.0163973	.0188416
7	.0004362	.0005252	.0006414	.0007836	.0009493	.0011443	.0013703	.0016384

N	.41	.42	.43	.44	.45	.46	.47	.48
1	.9751135	.9779002	.9804510	.9827291	.9847756	.9866107	.9882529	.9897193
2	.8540554	.8659902	.8772107	.8877388	.8975816	.9067711	.9153121	.9232900
3	.6016799	.6228574	.6435877	.6638333	.6835509	.7027366	.7213354	.7393321
4	.3093807	.3294116	.3498411	.3706837	.3917138	.4130879	.4344107	.4556100
5	.1060575	.1169164	.1282428	.1400440	.1520977	.1643945	.1768454	.1895079
6	.0215455	.0245909	.0279404	.0316375	.0357068	.0401710	.0450571	.0503900
7	.0019475	.0023054	.0027182	.0031938	.0037387	.0043582	.0050668	.0058707

N	.49	.50
1	.9910269	.9921875
2	.9306706	.9375000
3	.7567054	.7734375
4	.4781337	.5000000
5	.2104864	.2265625
6	.0561956	.0635000
7	.0067888	.0078125

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 6$$

%	.01	.02	.03	.04	.05	.06	.07	.08
1	.0772553	.1492370	.2168566	.2786104	.3365796	.3904311	.4404168	.4867811
2	.0026901	.0103369	.0223408	.0381472	.0572447	.0791616	.1034657	.1297593
3	.0000539	.0004155	.0013499	.0030797	.0057862	.0096239	.0146986	.0211005
4	.0000007	.0000105	.0000515	.0001874	.0003718	.0007456	.0013359	.0022033
5		.0000002	.0000013	.0000052	.0000154	.0000373	.0000786	.0001493
6				.0000001	.0000004	.0000012	.0000029	.0000064
7							.0000001	.0000002

%	.09	.10	.11	.12	.13	.14	.15	.16
1	.5297475	.5695328	.6063411	.6403655	.6717883	.7007821	.7275095	.7521241
2	.1576795	.1868953	.2171054	.2480369	.2794433	.3111039	.3428170	.3744085
3	.0288868	.0380918	.0487281	.0607692	.0742514	.0890764	.1052126	.1225980
4	.0034113	.0050244	.0071068	.0097216	.0129297	.0167887	.0213525	.0266703
5	.0002619	.0004317	.0006765	.0010169	.0014759	.0020790	.0028539	.0038303
6	.0000127	.0000234	.0000407	.0000673	.0001067	.0001633	.0002423	.0003499
7	.0000004	.0000007	.0000014	.0000026	.0000044	.0000074	.0000119	.0000185
8					.0000001	.0000001	.0000003	.0000004

%	.17	.18	.19	.20	.21	.22	.23	.24
1	.7747708	.7955859	.8146960	.8322278	.8482891	.8629886	.8764264	.8886963
2	.4057205	.4366148	.4669707	.4966835	.5256634	.5538346	.5811355	.6075088
3	.1411603	.1608200	.1814910	.2030822	.2254991	.2486441	.2724183	.2967223
4	.0327863	.0397393	.0475622	.0562816	.0659180	.0764853	.0879910	.1004362
5	.0050399	.0065160	.0083929	.0104064	.0128926	.0157883	.0191302	.0229548
6	.0004935	.0006816	.0009239	.0012314	.0016164	.0020926	.0026751	.0033805
7	.0000279	.0000413	.0000596	.0000845	.0001176	.0001611	.0002176	.0002899
8	.0000007	.0000011	.0000017	.0000026	.0000038	.0000055	.0000078	.0000110

%	.25	.26	.27	.28	.29	.30	.31	.32
1	.8998871	.9100805	.9193540	.9277796	.9354246	.9423520	.9486202	.9542837
2	.6329193	.6573339	.6807303	.7030939	.7244179	.7447017	.7639506	.7821752
3	.3214569	.3465239	.3718268	.3972716	.4227573	.4482262	.4735644	.4987023
4	.1136153	.1281168	.1433229	.1594099	.1763486	.1941044	.2186377	.2319043
5	.0272980	.0321948	.0376789	.0437826	.0505362	.0579679	.0661027	.0749644
6	.0042267	.0052329	.0064199	.0078097	.0094256	.0112922	.0134351	.0158811
7	.0003815	.0004964	.0006391	.0008150	.0010298	.0012903	.0016040	.0019791
8	.0000153	.0000209	.0000282	.0000378	.0000500	.0000656	.0000853	.0001100

%	.33	.34	.35	.36	.37	.38	.39	.40
1	.9593932	.9639959	.9681355	.9718528	.9751844	.9781660	.9808293	.9832038
2	.7993904	.8156156	.8308731	.8451986	.8585906	.8711089	.8827757	.8936243
3	.5235647	.5480813	.5721663	.5958195	.6189255	.6414542	.6633607	.6846054
4	.2518558	.2724399	.2936006	.3152791	.3374141	.3599420	.3827973	.4059136
5	.0845724	.0949435	.1060909	.1180242	.1307490	.1442673	.1585766	.1736704
6	.0106577	.0128935	.0353175	.0292594	.0336492	.0385171	.0438932	.0498074
7	.0024250	.0029518	.0035708	.0042944	.0051358	.0061098	.0072321	.0085197
8	.0001406	.0001786	.0002252	.0002821	.0003512	.0004348	.0005352	.0006554

%	.41	.42	.43	.44	.45	.46	.47	.48
1	.9883170	.9871937	.9888571	.9903283	.9916266	.9927698	.9937740	.9946540
2	.9036892	.9130054	.9216086	.9295345	.9368189	.9434974	.9496049	.9551761
3	.7051539	.7249765	.7440490	.7623517	.7798697	.7965925	.8125139	.8276316
4	.4292234	.4526588	.4761522	.4996359	.5230437	.5463101	.5693713	.5921658
5	.1895380	.2061644	.2233301	.2416115	.2603807	.2798056	.2998501	.3204741
6	.0563892	.0633676	.0710705	.0794247	.0884559	.0981879	.1086426	.1198402
7	.0099909	.0116483	.0135637	.0157085	.0181230	.0208321	.0238619	.0272400
8	.0007985	.0009683	.0011688	.0014048	.0016815	.0020048	.0023811	.0028179

%	.49	.50
1	.9954839	.9960938
2	.9602447	.9644638
3	.8419484	.8554688
4	.6146339	.6367188
5	.3416336	.3638813
6	.1317781	.1445313
7	.0309948	.0351883
8	.0033235	.0039063

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 9$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.0864828	.1663528	.2397589	.3074660	.3697506	.4270052	.4795089	.5278386
2	.0034357	.0131149	.0281582	.0477658	.0712114	.0978380	.1270524	.1583210
3	.0000803	.0006139	.0019796	.0044824	.0083610	.0137953	.0209123	.0297932
4	.0000012	.0000186	.0000904	.0002743	.0006436	.0012783	.0022713	.0037151
5		.0000004	.0000028	.0000113	.0000332	.0000798	.0001666	.0003136
6			.0000001	.0000003	.0000012	.0000033	.0000082	.0000178
7						.0000001	.0000003	.0000007

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.5730702	.6125795	.6496436	.6835216	.7144558	.7426726	.7683831	.7917843
2	.1911657	.2251590	.2599213	.2951163	.3304462	.3656580	.4005208	.4348430
3	.0404781	.0529721	.0672496	.0832589	.1009264	.1201601	.1408534	.1628877
4	.0057041	.0083311	.0116851	.0156497	.0209015	.0269090	.0339315	.0420187
5	.0005453	.0008909	.0013838	.0020615	.0029649	.0041384	.0056287	.0074847
6	.0000351	.0000642	.0001106	.0001813	.0002847	.0004314	.0006340	.0009068
7	.0000015	.0000030	.0000057	.0000103	.0000177	.0000292	.0000464	.0000715
8		.0000001	.0000002	.0000005	.0000006	.0000012	.0000020	.0000033
9								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.8130597	.8323804	.8499054	.8657823	.8801484	.8931311	.9048483	.9154094
2	.4684390	.5012296	.5330389	.5637924	.5934148	.6218484	.6490509	.6749938
3	.1861356	.2104631	.2357321	.2618025	.2885336	.3157860	.3434218	.3713111
4	.0512099	.0615338	.0730086	.0856417	.0994300	.1143602	.1304053	.1475448
5	.0097568	.0124962	.0157541	.0195814	.0240280	.0291417	.0349682	.0415503
6	.0012664	.0017318	.0023240	.0030664	.0039844	.0051056	.0064598	.0080784
7	.0001071	.0001565	.0002238	.0003139	.0004323	.0005861	.0007828	.0010316
8	.0000053	.0000083	.0000127	.0000189	.0000277	.0000397	.0000561	.0000779
9	.0000001	.0000002	.0000003	.0000005	.0000008	.0000012	.0000018	.0000026

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.9249153	.9334596	.9411284	.9480013	.9541515	.9596464	.9645479	.9689129
2	.6996613	.7230480	.7451586	.7660052	.7856098	.8039968	.8211982	.8372499
3	.3997285	.4273345	.4552307	.4829018	.5102460	.5371588	.5635841	.5894136
4	.1657257	.1849026	.2050189	.2260112	.2478100	.2703409	.2935250	.3172797
5	.0489273	.0571345	.0662028	.0761503	.0870218	.0988087	.1115286	.1251852
6	.0099945	.0122430	.0148598	.0178821	.0213477	.0252946	.0297621	.0347877
7	.0013428	.0017279	.0021969	.0027735	.0034646	.0042909	.0052716	.0064277
8	.0001068	.0001445	.0001932	.0002554	.0003342	.0004330	.0005561	.0007081
9	.0000038	.0000054	.0000076	.0000106	.0000145	.0000197	.0000264	.0000352

r	.33	.34	.35	.36	.37	.38	.39	.40
1	.9727935	.9762373	.9792881	.9819856	.9843662	.9864629	.9883059	.9899223
2	.8521914	.8660649	.8789150	.8907877	.9017303	.9117906	.9210166	.9294561
3	.6145072	.6390429	.6627267	.6855925	.7076016	.7287230	.7489326	.7682130
4	.3615198	.3861579	.4111056	.4362737	.4615733	.4869166	.5122170	.5373903
5	.1397759	.1552923	.1717193	.1890360	.2072151	.2262237	.2460227	.2665677
6	.0404096	.0466645	.0535882	.0612147	.0695762	.0787022	.0886197	.0993526
7	.0077818	.0093588	.0111822	.0132618	.0156858	.0184246	.0215299	.0250348
8	.0008945	.0011215	.0013962	.0017265	.0021215	.0025913	.0031470	.0038011
9	.0000464	.0000607	.0000788	.0001016	.0001300	.0001652	.0002087	.0002621

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.9913370	.9925723	.9936485	.9945838	.9953946	.9960957	.9967002	.9972201
2	.9371566	.9441645	.9505255	.9562838	.9614824	.9661627	.9703644	.9741265
3	.7865533	.8039487	.8203997	.8359122	.8504969	.8641687	.8769467	.8888531
4	.5623549	.5870323	.6113478	.6352309	.6586154	.6814400	.7036483	.7251895
5	.2878090	.3096920	.3321576	.3551423	.3785791	.4023977	.4265285	.4508861
6	.1109212	.1233628	.1366081	.1507069	.1656220	.1813320	.1978102	.2150445
7	.0289732	.0333803	.0382916	.0437436	.0497728	.0564157	.0637089	.0716881
8	.0045874	.0054610	.0064986	.0076984	.0090802	.0106653	.0124771	.0145405
9	.0003274	.0004067	.0005026	.0006181	.0007567	.0009228	.0011191	.0013526

r	.49	.50
1	.9976658	.9980469
2	.9774823	.9804688
3	.8999136	.9101563
4	.7260180	.7460938
5	.4754037	.5000000
6	.2346175	.2539063
7	.0803884	.0898438
8	.0168023	.0195313
9	.0016284	.0019531

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 10

c	.01	.02	.03	.04	.05	.06	.07	.08
1	.0956179	.1829272	.2625759	.3351674	.4012631	.4613849	.5160177	.5656115
2	.0042662	.0161776	.0345066	.0581538	.0861384	.1175880	.1517299	.1878825
3	.0001138	.0008639	.0027649	.0062137	.0115036	.0188378	.0283421	.0400754
4	.0000020	.0000305	.0001471	.0004426	.0010285	.0020293	.0035761	.0058013
5		.0000007	.0000054	.0000218	.0000637	.0001517	.0003139	.0005857
6			.0000001	.0000007	.0000028	.0000079	.0000193	.0000415
7					.0000001	.0000003	.0000008	.0000020
8								.0000001

c	.09	.10	.11	.12	.13	.14	.15	.16
1	.6105839	.6513216	.6881828	.7214990	.7515766	.7786984	.8031256	.8250988
2	.2254471	.2639011	.3027908	.3417250	.3803692	.4184400	.4557002	.4919536
3	.0540400	.0701908	.0884435	.1086818	.1307642	.1545298	.1798035	.2064005
4	.0088338	.0127952	.0177972	.0239388	.0313048	.0399642	.0499698	.0613577
5	.0010096	.0016349	.0025170	.0037161	.0052967	.0073263	.0098741	.0130101
6	.0000810	.0001469	.0002507	.0004069	.0006332	.0009505	.0013832	.0019593
7	.0000045	.0000091	.0000173	.0000308	.0000525	.0000856	.0001346	.0002051
8	.0000002	.0000004	.0000008	.0000015	.0000029	.0000051	.0000087	.0000142
9					.0000001	.0000002	.0000003	.0000006

c	.17	.18	.19	.20	.21	.22	.23	.24
1	.8448396	.8625520	.8784833	.8926258	.9053172	.9166422	.9267332	.9357111
2	.5270412	.5608368	.5932435	.6241904	.6536289	.6815306	.7078843	.7326936
3	.2341305	.2628010	.2922204	.3222005	.3525586	.3831197	.4137173	.4441949
4	.0741472	.0883411	.1039261	.1208739	.1391418	.1586739	.1794024	.2012487
5	.0168038	.0213229	.0266325	.0327935	.0398624	.0478897	.0569196	.0669090
6	.0027098	.0036694	.0048757	.0063694	.0081935	.0103936	.0130167	.0161116
7	.0003042	.0004401	.0006229	.0008644	.0011783	.0015804	.0020885	.0027228
8	.0000226	.0000350	.0000528	.0000779	.0001127	.0001599	.0002232	.0003068
9	.0000010	.0000017	.0000027	.0000042	.0000064	.0000097	.0000143	.0000207
10			.0000001	.0000001	.0000002	.0000003	.0000004	.0000006

c	.25	.26	.27	.28	.29	.30	.31	.32
1	.9436865	.9507601	.9570237	.9625609	.9674476	.9717525	.9755381	.9788608
2	.7559748	.7777550	.7980705	.8169646	.8344869	.8506917	.8656366	.8793821
3	.4744072	.5042200	.5335112	.5621710	.5901015	.6173172	.6434445	.6687212
4	.2241249	.2479349	.2725761	.2979405	.3239164	.3503893	.3772433	.4043626
5	.0781269	.0903542	.1036831	.1181171	.1336503	.1502683	.1679475	.1866554
6	.0197277	.0239148	.0287224	.0341994	.0403932	.0473490	.0551097	.0637149
7	.0035057	.0044618	.0056181	.0070039	.0086507	.0105921	.0128637	.0155029
8	.0004156	.0005562	.0007350	.0009605	.0012420	.0015904	.0020179	.0025384
9	.0000296	.0000416	.0000577	.0000791	.0001072	.0001437	.0001906	.0002505
10	.0000010	.0000014	.0000021	.0000030	.0000042	.0000059	.0000082	.0000113

c	.33	.34	.35	.36	.37	.38	.39	.40
1	.9817716	.9843166	.9865373	.9884708	.9901507	.9916070	.9928666	.9939534
2	.8919901	.9035235	.9140456	.9236190	.9323056	.9401661	.9472594	.9536426
3	.6929966	.7162304	.7383926	.7594627	.7794292	.7982887	.8160453	.8327102
4	.4316320	.4589388	.4861730	.5132284	.5400038	.5664030	.5923361	.6177194
5	.2063514	.2269866	.2485045	.2708415	.2939277	.3176870	.3420385	.3668967
6	.0732005	.0835979	.0949341	.1072304	.1205026	.1347603	.1500068	.1662386
7	.0185480	.0220422	.0260243	.0305376	.0356252	.0413301	.0476949	.0547619
8	.0031673	.0039219	.0048213	.0058864	.0071403	.0086079	.0103163	.0122946
9	.0003263	.0004214	.0005399	.0006865	.0008668	.0010871	.0013546	.0016777
10	.0000153	.0000206	.0000276	.0000366	.0000481	.0000628	.0000814	.0001049

c	.41	.42	.43	.44	.45	.46	.47	.48
1	.9948888	.9956920	.9963797	.9969669	.9974670	.9978917	.9982511	.9985544
2	.9593705	.9644958	.9690684	.9731358	.9767429	.9799319	.9827422	.9852109
3	.8483007	.8628393	.8763538	.8888757	.9004403	.9110859	.9208530	.9297839
4	.6424763	.6665372	.6898401	.7123307	.7339621	.7546952	.7744905	.7933480
5	.3921728	.4177749	.4436094	.4695813	.4955954	.5215571	.5473730	.5729517
6	.1834452	.2016092	.2207058	.2407033	.2615627	.2832382	.3056778	.3288205
7	.0635719	.0711643	.0805763	.0908427	.1019949	.1140612	.1270655	.1410278
8	.0145738	.0171871	.0201696	.0235583	.0273918	.0317105	.0365560	.0419713
9	.0020658	.0025295	.0030809	.0037335	.0045022	.0054040	.0064574	.0076828
10	.0001342	.0001708	.0002161	.0002720	.0003405	.0004242	.0005260	.0006493

c	.49	.50
1	.9988096	.9990234
2	.9873722	.9892578
3	.9379222	.9453125
4	.8112268	.8281250
5	.5982047	.6230469
6	.3526028	.3769531
7	.1559607	.1718750
8	.0480003	.0546875
9	.0091038	.0107422
10	.0007979	.0009766

$$\sum_{x=1}^{n}$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.1046617	.1992696	.2846986	.3617607	.4311999	.4937018	.5498965	.6003626
2	.0051797	.0195126	.0413486	.0692343	.1018946	.1382158	.1772301	.2181008
3	.0001554	.0011702	.0037172	.0082913	.0152353	.0247624	.0369793	.0519000
4	.0000031	.0000472	.0002256	.0006734	.0015523	.0030378	.0053098	.0085433
5		.0000013	.0000096	.0000386	.0001119	.0002644	.0005423	.0010030
6			.0000003	.0000016	.0000058	.0000166	.0000399	.0000850
7					.0000002	.0000007	.0000021	.0000052
8							.0000001	.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.6456313	.6861894	.7224827	.7549191	.7838716	.8096806	.8326568	.8530830
2	.2601094	.3026431	.3451839	.3872979	.4286261	.4688762	.5078140	.5452548
3	.0694666	.0956619	.1220217	.1366470	.1632129	.1914773	.2211880	.2520800
4	.0129023	.0185348	.0255683	.0341080	.0442345	.0560033	.0694449	.0845646
5	.0017138	.0027510	.0041978	.0061428	.0086777	.0118956	.0158884	.0207450
6	.0001646	.0002957	.0005000	.0008040	.0012394	.0018431	.0026569	.0037274
7	.0000114	.0000229	.0000439	.0000760	.0001279	.0002066	.0003219	.0004858
8	.0000006	.0000012	.0000026	.0000051	.0000093	.0000164	.0000276	.0000448
9			.0000001	.0000002	.0000005	.0000009	.0000016	.0000028
10							.0000001	.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.8712164	.8872926	.9015229	.9141007	.9252006	.9349809	.9435846	.9511404
2	.5810660	.6151455	.6474277	.6778775	.7064834	.7332552	.7582195	.7814178
3	.2839254	.3164475	.3494148	.3825985	.4157834	.4487701	.4813757	.5134345
4	.1013444	.1197439	.1397020	.1611392	.1839593	.2080520	.2332948	.2595556
5	.0265522	.0339862	.0431382	.0540096	.0667111	.0722623	.0850907	.0992113
6	.0051059	.0068470	.0090085	.0116542	.0149440	.0186427	.0231144	.0283222
7	.0007131	.0010214	.0014309	.0019654	.0026515	.0035193	.0046020	.0059361
8	.0000705	.0001079	.0001611	.0002353	.0003364	.0004724	.0006522	.0008867
9	.0000047	.0000077	.0000122	.0000189	.0000287	.0000427	.0000623	.0000894
10	.0000002	.0000003	.0000006	.0000009	.0000015	.0000023	.0000036	.0000055
11						.0000001	.0000001	.0000002

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9577649	.9634625	.9684273	.9730419	.9768878	.9802267	.9831213	.9856253
2	.8029027	.8227363	.8409878	.8577316	.8730455	.8870099	.8997060	.9112152
3	.5447991	.5753391	.6049422	.6335132	.6609733	.6872595	.7123240	.7361327
4	.2866955	.3145690	.3430280	.3719251	.4011101	.4304377	.4597657	.4889573
5	.1146264	.1313252	.1492842	.1684676	.1888275	.2103046	.2328292	.2563217
6	.0343275	.0411800	.0489618	.0576964	.0674377	.0782248	.0900894	.1030559
7	.0075612	.0095196	.0118563	.0146187	.0179560	.0216192	.0259599	.0309308
8	.0011883	.0015716	.0020534	.0026526	.0033905	.0042909	.0053801	.0066870
9	.0001261	.0001754	.0002406	.0003259	.0004363	.0005777	.0007571	.0009825
10	.0000081	.0000119	.0000171	.0000243	.0000341	.0000472	.0000648	.0000878
11	.0000002	.0000004	.0000006	.0000008	.0000012	.0000018	.0000025	.0000036

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9877870	.9896490	.9912492	.9926213	.9937949	.9947963	.9956486	.9963720
2	.9216180	.9309932	.9394177	.9469656	.9537083	.9597136	.9650462	.9697669
3	.7586644	.7799101	.7998711	.8185590	.8359935	.8522021	.8672188	.8810838
4	.5178823	.5464180	.5744499	.6018728	.6285912	.6545196	.6795827	.7037157
5	.2806940	.3058504	.3316885	.3581008	.3849758	.4121991	.4396545	.4672258
6	.1171403	.1323501	.1486837	.1661304	.1846699	.2042725	.2248992	.2465019
7	.0365839	.0429711	.0501427	.0581470	.0670298	.0768336	.0875966	.0993526
8	.0082432	.0100828	.0122423	.0147609	.0176797	.0210423	.0248940	.0292815
9	.0012630	.0016116	.0020384	.0025585	.0031880	.0039450	.0048497	.0059245
10	.0001179	.0001569	.0002049	.0002706	.0003510	.0004520	.0005780	.0007340
11	.0000051	.0000070	.0000097	.0000132	.0000178	.0000239	.0000317	.0000419

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.9969844	.9975013	.9979364	.9983015	.9986069	.9988615	.9990731	.9992483
2	.9739330	.9775942	.9808122	.9836215	.9860688	.9881934	.9900314	.9916158
3	.8938293	.9055350	.9162210	.9259501	.9347765	.9427551	.9499409	.9563888
4	.7268643	.7489841	.7700410	.7900105	.8088773	.8266343	.8432851	.8588372
5	.4947972	.5222551	.5494886	.5763910	.6026604	.6288006	.6541220	.6787420
6	.2690235	.2923988	.3165543	.3414096	.3668774	.3928549	.4192742	.4460035
7	.1121300	.1259511	.1408320	.1567613	.1738004	.1918026	.2110130	.2311679
8	.0342530	.0390575	.0461445	.0531634	.0609632	.0695918	.0790955	.0895181
9	.0071941	.0086857	.0104200	.0124564	.0148026	.0175050	.0206038	.0241413
10	.0009262	.0011615	.0014480	.0017950	.0022153	.0027149	.0033137	.0040254
11	.0000550	.0000717	.0000929	.0001197	.0001532	.0001951	.0002472	.0003116

x	.49	.50
1	.9993929	.9995117
2	.9929765	.9941406
3	.9621527	.9672852
4	.8733071	.8867188
5	.7025856	.7255859
6	.4729477	.5000000
7	.2523153	.2744141
8	.1009009	.1132813
9	.0281626	.0327148
10	.0048673	.0058594
1	.0003910	.0004883

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 12$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.1136151	.2152833	.3061576	.3872902	.4596399	.5240797	.5814037	.6323336
2	.0061745	.0231078	.0486491	.0809354	.1183599	.1595450	.2033167	.2486817
3	.0002056	.0015370	.0048461	.0107290	.0195683	.0315700	.0467968	.0651960
4	.0000046	.0000696	.0003304	.0009782	.0022364	.0043413	.0075266	.0120118
5	.0000001	.0000023	.0000161	.0000640	.0001839	.0004308	.0008760	.0016062
6		.0000001	.0000006	.0000031	.0000111	.0000314	.0000751	.0001584
7				.0000001	.0000005	.0000017	.0000046	.0000116
8						.0000001	.0000002	.0000006

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.6775245	.7175705	.7530096	.7843288	.8119683	.8363254	.8577582	.8765897
2	.2944064	.3409977	.3866868	.4314124	.4748081	.5165868	.5565404	.5945090
3	.0866245	.1108700	.1376695	.1667251	.1977166	.2303131	.2641819	.2989959
4	.0179931	.0256375	.0350782	.0464127	.0597017	.0749697	.0922063	.1113685
5	.0027207	.0043293	.0065486	.0094986	.0133001	.0180707	.0239219	.0309568
6	.0003040	.0005412	.0009067	.0014446	.0022064	.0032504	.0046416	.0064503
7	.0000252	.0000502	.0000932	.0001633	.0002724	.0004357	.0006721	.0010045
8	.0000015	.0000034	.0000070	.0000136	.0000247	.0000430	.0000717	.0001153
9	.0000001	.0000002	.0000004	.0000008	.0000016	.0000030	.0000055	.0000095
10					.0000001	.0000001	.0000003	.0000005

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.8931100	.9075793	.9202336	.9312805	.9409085	.9492851	.9565601	.9628667
2	.6303924	.6641320	.6957058	.7251821	.7524140	.7776348	.8008535	.8221512
3	.3344394	.3702131	.4060373	.4416543	.4768304	.5113568	.5450498	.5777506
4	.1323832	.1551505	.1795475	.2054311	.2326424	.2610100	.2903534	.3204867
5	.0392669	.0483306	.0600112	.0725555	.0865932	.1021360	.1191776	.1376940
6	.0087517	.0114...	.0151402	.0194053	.0244761	.0304390	.0373689	.0453356
7	.0014599	.0020700	.0028708	.0039031	.0052119	.0068464	.0088599	.0113088
8	.0001797	.0002723	.0004024	.0005812	.0008226	.0011427	.0015607	.0020985
9	.0000159	.0000257	.0000405	.0000622	.0000934	.0001373	.0001980	.0002807
10	.0000010	.0000016	.0000028	.0000045	.0000072	.0000112	.0000171	.0000256
11		.0000001	.0000001	.0000002	.0000003	.0000006	.0000009	.0000014

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.9683236	.9730362	.9770980	.9805916	.9835903	.9861587	.9883537	.9902252
2	.8416182	.8593511	.8754505	.8900190	.9031598	.9149750	.9255648	.9350265
3	.6093250	.6396624	.6686745	.6962943	.7224742	.7471847	.7704125	.7921591
4	.3512214	.3823692	.4137453	.4451697	.4764704	.5074842	.5380588	.5680534
5	.1576437	.1789686	.2015952	.2254357	.2503895	.2763445	.3031795	.3307651
6	.0544022	.0646244	.0760489	.0887123	.1026408	.1178487	.1343387	.1521009
7	.0142528	.0177536	.0218748	.0266864	.0322347	.0386008	.0458401	.0540108
8	.0027815	.0036381	.0047002	.0060031	.0075855	.0094894	.0117598	.0144450
9	.0003917	.0005384	.0007301	.0009774	.0012930	.0016917	.0021902	.0028080
10	.0000376	.0000544	.0000774	.0001087	.0001507	.0002064	.0002794	.0003742
11	.0000022	.0000034	.0000050	.0000074	.0000107	.0000154	.0000218	.0000306
12	.0000001	.0000001	.0000002	.0000002	.0000004	.0000005	.0000008	.0000012

r	.33	.34	.35	.36	.37	.38	.39	.40
1	.9918173	.9931683	.9943120	.9952776	.9960908	.9967737	.9973457	.9978232
2	.9434537	.9509361	.9575587	.9634017	.9685403	.9730451	.9769811	.9804090
3	.8124391	.8312703	.8487124	.8647854	.8795479	.8930565	.9053715	.9165567
4	.5973404	.6258053	.6533473	.6798798	.7053300	.7296389	.7527608	.7746627
5	.3589662	.3876433	.4166549	.4458587	.4751135	.5042809	.5332865	.5618818
6	.1711130	.1913402	.2127354	.2352397	.2587831	.2832846	.3086538	.3347914
7	.0631675	.0733600	.0846321	.0970210	.1105567	.1252603	.1411446	.1582123
8	.0175957	.0212648	.0255075	.0303799	.0359393	.0422430	.0493480	.0573099
9	.0035670	.0044918	.0056098	.0069513	.0085500	.0104420	.0126670	.0152673
10	.0004961	.0006515	.0008479	.0010942	.0014007	.0017794	.0022439	.0028109
11	.0000423	.0000580	.0000787	.0001058	.0001411	.0001866	.0002448	.0003188
12	.0000017	.0000024	.0000034	.0000047	.0000066	.0000091	.0000124	.0000168

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.9982208	.9985508	.9988238	.9990468	.9992338	.9993852	.9995087	.9996091
2	.9833841	.9859875	.9881756	.9900807	.9917109	.9931007	.9942810	.9952794
3	.9266777	.9358016	.9439953	.9513255	.9578880	.9636967	.9688735	.9734978
4	.7983240	.8147355	.8300984	.8498239	.8655319	.8800502	.8934134	.9056620
5	.5899447	.6174813	.6443261	.6703836	.6955680	.7198044	.7430987	.7651877
6	.3615907	.3889384	.4167161	.4448014	.4730698	.5013954	.5296587	.5577180
7	.1764543	.1938591	.2163926	.2380178	.2606851	.2843345	.3088956	.3343890
8	.0661826	.0760168	.0868601	.0987583	.1117400	.1258486	.1410967	.1575100
9	.0183882	.0217779	.0257867	.0303675	.0355749	.0414650	.0480949	.0555833
10	.0034960	.0043816	.0053098	.0064860	.0078785	.0095184	.0114400	.0136810
11	.0004182	.0005294	.0006756	.0008568	.0010803	.0013548	.0016885	.0020948
12	.0000226	.0000301	.0000400	.0000527	.0000690	.0000898	.0001168	.0001496

r	.49	.50
1	.9996904	.9997559
2	.9961805	.9968262
3	.9772863	.9807129
4	.9168417	.9270020
5	.7866393	.8041823
6	.5854703	.6127930
7	.3604252	.3872070
8	.1750940	.1958477
9	.0638044	.0729980

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 12

c/r	.49	.50
10	.0162820	.0193871
11	.0025844	.0031738
12	.0001916	.0002441

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 12

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.1224790	.2300776	.3269729	.4117986	.4866579	.5526349	.6107054	.6617469
2	.0078489	.0269513	.0563744	.0931896	.1354239	.1814171	.2297828	.2793739
3	.0002653	.0019684	.0061602	.0135373	.0245078	.0392485	.0577532	.0798749
4	.0000067	.0000990	.0004658	.0013682	.0031030	.0059750	.0102755	.0162668
5	.0000001	.0000036	.0000256	.0001006	.0002866	.0006654	.0013416	.0024386
6		.0000001	.0000010	.0000055	.0000197	.0000554	.0001312	.0002743
7				.0000002	.0000010	.0000035	.0000097	.0000233
8						.0000002	.0000005	.0000015
9								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.7065073	.7458134	.7801785	.8102094	.8364124	.8592398	.8790948	.8963353
2	.3293510	.3786550	.4269823	.4737624	.5186369	.5613519	.6017231	.6396419
3	.1053609	.1338828	.1650614	.1984976	.2337385	.2703917	.3080357	.3462780
4	.0241699	.0341607	.0463632	.0608501	.0776436	.0967178	.1180027	.1413889
5	.0040953	.0064602	.0096868	.0139283	.0193323	.0260365	.0341646	.0438226
6	.0005215	.0009200	.0015273	.0024111	.0036486	.0053253	.0075336	.0103714
7	.0000503	.0000993	.0001827	.0003171	.0005239	.0008298	.0012675	.0018758
8	.0000037	.0000081	.0000165	.0000315	.0000569	.0000980	.0001618	.0002576
9	.0000002	.0000005	.0000011	.0000023	.0000046	.0000086	.0000154	.0000264
10			.0000001	.0000001	.0000003	.0000006	.0000011	.0000020
11							.0000001	.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9113813	.9242156	.9353892	.9450244	.9533177	.9604424	.9665513	.9717787
2	.6750544	.7079526	.7383661	.7663538	.7919979	.8153979	.8366660	.8559229
3	.3847514	.4231135	.4610743	.4983478	.5347030	.5699380	.6038946	.6364067
4	.1667327	.1938618	.2225805	.2526757	.2839219	.3160863	.3489336	.3822301
5	.0550967	.0680502	.0827231	.0991306	.1172635	.1370883	.1585481	.1815643
6	.0139393	.0183393	.0236721	.0300353	.0375207	.0462124	.0561849	.0675016
7	.0026995	.0037897	.0052035	.0070036	.0092574	.0120368	.0154169	.0194752
8	.0003974	.0005959	.0008714	.0012456	.0017444	.0023975	.0032395	.0043090
9	.0000437	.0000701	.0001093	.0001660	.0002465	.0003585	.0005114	.0007170
10	.0000035	.0000060	.0000099	.0000161	.0000253	.0000390	.0000587	.0000868
11	.0000002	.0000003	.0000006	.0000011	.0000018	.0000029	.0000046	.0000072
12					.0000001	.0000001	.0000002	.0000004

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.9762427	.9800468	.9832815	.9860259	.9883491	.9903111	.9919640	.9933532
2	.8733946	.8889093	.9024953	.9143793	.9246846	.9336301	.9413299	.9479091
3	.6671983	.6967815	.7245040	.7505372	.7748730	.7975217	.8185097	.8378767
4	.4157473	.4492655	.4825762	.5154846	.5478115	.5793944	.6100864	.6397673
5	.2060381	.2318528	.2588757	.2869612	.3159589	.3456864	.3759921	.4066974
6	.0802126	.0943539	.1099464	.1269949	.1454879	.1653975	.1866794	.2092735
7	.0242901	.0299400	.0365018	.0440494	.0526585	.0623752	.0732747	.0853996
8	.0056493	.0073081	.0093373	.0117928	.0147338	.0182224	.0223247	.0271061
9	.0009891	.0013443	.0018020	.0023846	.0031178	.0040310	.0051568	.0065319
10	.0001361	.0001802	.0002536	.0003520	.0004820	.0006520	.0008717	.0011530
11	.0000111	.0000166	.0000246	.0000358	.0000513	.0000727	.0001017	.0001405
12	.0000004	.0000009	.0000015	.0000022	.0000034	.0000050	.0000073	.0000106
13				.0000001	.0000001	.0000002	.0000002	.0000004

r	.33	.34	.35	.36	.37	.38	.39	.40
1	.9945176	.9954911	.9963028	.9969777	.9975372	.9979997	.9983808	.9986939
2	.9594137	.9693951	.9704224	.9748770	.9787340	.9820620	.9849233	.9873747
3	.8556739	.8719620	.8868086	.9002872	.9124751	.9234521	.9332993	.9420976
4	.6883230	.6956661	.7217251	.7464458	.7697907	.7917376	.8122790	.8314203
5	.4376297	.4686184	.4994973	.5301063	.5602936	.5899169	.6188449	.6469582
6	.2331045	.2580832	.2841072	.3110626	.3388253	.3672632	.3962371	.4256036
7	.0987895	.1134732	.1294692	.1467798	.1654004	.1853096	.2064732	.2288440
8	.0326344	.0399772	.0482011	.0573707	.0675477	.0787806	.0911487	.1046709
9	.0081965	.0101946	.0125739	.0153856	.0186840	.0225864	.0269726	.0320843
10	.0015095	.0019572	.0025146	.0032028	.0040459	.0050712	.0063089	.0077930
11	.0001920	.0002598	.0003479	.0004616	.0006072	.0007918	.0010245	.0013153
12	.0000151	.0000213	.0000297	.0000411	.0000564	.0000765	.0001030	.0001376
13	.0000006	.0000008	.0000012	.0000017	.0000024	.0000034	.0000048	.0000067

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.9989503	.9991594	.9993295	.9994673	.9995786	.9996680	.9997396	.9997967
2	.9894672	.9912467	.9927543	.9940247	.9950962	.9959916	.9967380	.9973577
3	.9499274	.9568671	.9629928	.9683778	.9730918	.9772009	.9807673	.9838490
4	.8491791	.8655838	.8806700	.8944846	.9070787	.9185092	.9288373	.9381272
5	.6741502	.7003280	.7254122	.7493373	.7720518	.7935175	.8137095	.8326154
6	.4552158	.4852364	.5145884	.5440376	.5731940	.6018635	.6299394	.6573034
7	.2523614	.2769524	.3025317	.3290026	.3562582	.3841825	.4125515	.4411349
8	.1113944	.1263506	.1425591	.1600308	.1787653	.1987505	.2199683	.2423639
9	.0379249	.0445503	.0520483	.0604581	.0698498	.0802801	.0918057	.1044764
10	.0095608	.0116532	.0141149	.0169939	.0203418	.0242130	.0286670	.0337648
11	.0016766	.0021221	.0026683	.0033337	.0041394	.0051097	.0062717	.0076559
12	.0001823	.0002398	.0003133	.0004065	.0005240	.0006714	.0008552	.0010830
13	.0000093	.0000127	.0000172	.0000232	.0000310	.0000413	.0000546	.0000718

$$F(c,n,t) = \sum_{x=c}^{n} \binom{n}{x} t^x (1-t)^{n-x}$$

x	.49	.50
1	.9990431	.9990779
2	.9978698	.9982910
3	.9864098	.9887695
4	.9464449	.9538574
5	.8502345	.8665771
6	.6830471	.7094727
7	.4706973	.5000000
8	.2659063	.2905273
9	.1183363	.1334229
10	.0395680	.0461426
11	.0092962	.0112305
12	.0013641	.0017090
13	.0000934	.0001221

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 14$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.1312542	.2469581	.3471637	.4353267	.5123250	.5794760	.6379561	.6888072
2	.0084012	.0310318	.0644923	.1059339	.1529856	.2036901	.2564474	.3099637
3	.0003351	.0024681	.0076667	.0167234	.0300536	.0477786	.0697953	.0958348
4	.0000093	.0001364	.0006367	.0018550	.0041732	.0079714	.0135990	.0213552
5	.0000002	.0000055	.0000388	.0001513	.0004274	.0009840	.0019669	.0038449
6		.0000002	.0000018	.0000093	.0000331	.0000920	.0002159	.0004474
7			.0000001	.0000004	.0000020	.0000066	.0000182	.0000434
8					.0000001	.0000004	.0000018	.0000038
9							.0000001	.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.7329580	.7712321	.8043589	.8329843	.8576788	.8789462	.8972303	.9127817
2	.3632077	.4153709	.4658339	.5141360	.5599495	.6030562	.6433288	.6807129
3	.1855110	.1583600	.1938727	.2315205	.2707755	.3111261	.3520888	.3932162
4	.0314771	.0441329	.0594200	.0773666	.0979359	.1210321	.1465076	.1741711
5	.0059020	.0093302	.0137212	.0195509	.0269128	.0359319	.0467403	.0594332
6	.0008432	.0014741	.0024349	.0037932	.0056875	.0082248	.0115283	.0157236
7	.0000927	.0001814	.0003306	.0005684	.0009301	.0014592	.0022075	.0032351
8	.0000078	.0000172	.0000348	.0000658	.0001176	.0002004	.0003276	.0005165
9	.0000005	.0000013	.0000028	.0000058	.0000114	.0000211	.0000374	.0000634
10		.0000001	.0000002	.0000004	.0000008	.0000017	.0000032	.0000059
11						.0000001	.0000002	.0000004

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9263635	.9370568	.9476652	.9560195	.9631210	.9691451	.9742445	.9785518
2	.7152130	.7469799	.7758005	.8020879	.8258750	.8473077	.8665396	.8837283
3	.4341029	.4743887	.5137597	.5519490	.5887349	.6239392	.6574244	.6890906
4	.2037959	.2351280	.2678943	.3018101	.3365859	.3719336	.4075723	.4432325
5	.0740748	.0906965	.1092960	.1298396	.1522618	.1764678	.2023367	.2297241
6	.0209360	.0272872	.0348918	.0438544	.0542667	.0662051	.0797285	.0948767
7	.0046102	.0064086	.0087126	.0116099	.0151927	.0195554	.0247936	.0310016
8	.0007887	.0011708	.0016945	.0023972	.0033221	.0045182	.0060403	.0079489
9	.0001038	.0001647	.0002541	.0003819	.0005611	.0008071	.0011389	.0015791
10	.0000103	.0000175	.0000288	.0000460	.0000718	.0001092	.0001628	.0002381
11	.0000008	.0000014	.0000024	.0000041	.0000067	.0000108	.0000171	.0000263
12		.0000001	.0000001	.0000002	.0000004	.0000007	.0000012	.0000020
13							.0000001	.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9821821	.9852346	.9877955	.9899387	.9917279	.9932178	.9944552	.9954801
2	.8990316	.9126050	.9245996	.9351604	.9444253	.9525244	.9595791	.9657023
3	.7188724	.7467347	.7726697	.7966930	.8188404	.8391642	.8577308	.8746170
4	.4786600	.5136196	.5478967	.5812994	.6136504	.6448326	.6746990	.7031625
5	.2584654	.2883801	.3192748	.3509478	.3831919	.4157958	.4485619	.4812797
6	.1116690	.1301036	.1501573	.1717755	.1949228	.2194842	.2453663	.2724491
7	.0382708	.0466877	.0563318	.0672741	.0795747	.0932819	.1084301	.1250393
8	.0103095	.0131924	.0166717	.0208246	.0257302	.0314685	.0381190	.0457600
9	.0021542	.0028949	.0038365	.0050189	.0064865	.0082805	.0104789	.0131156
10	.0003419	.0004829	.0006717	.0009211	.0012464	.0016657	.0022001	.0028742
11	.0000398	.0000592	.0000864	.0001243	.0001762	.0002465	.0003404	.0004645
12	.0000032	.0000050	.0000077	.0000116	.0000173	.0000253	.0000366	.0000521
13	.0000002	.0000003	.0000004	.0000007	.0000010	.0000016	.0000024	.0000036
14							.0000001	.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9963268	.9970241	.9975960	.9980657	.9984484	.9987598	.9990123	.9992164
2	.9709980	.9755617	.9794805	.9828333	.9856912	.9881183	.9901717	.9919024
3	.8899081	.9036952	.9160734	.9271396	.9369909	.9457239	.9534326	.9602084
4	.7501489	.7756067	.7995043	.8218287	.8425699	.8617891	.8794769	.8956912
5	.5137505	.5458146	.5772770	.6079885	.6378075	.6666088	.6942842	.7207430
6	.3005978	.3296652	.3594937	.3899183	.4207686	.4518716	.4830542	.5141454
7	.1431135	.1626406	.1835919	.2059216	.2295676	.2544519	.2804811	.3075478
8	.0544656	.0643058	.0753446	.0876380	.1012332	.1161672	.1324652	.1501401
9	.0168610	.0199807	.0243434	.0294202	.0352836	.0420064	.0496618	.0583189
10	.0037162	.0047579	.0060353	.0075886	.0094620	.0117042	.0143677	.0175095
11	.0006268	.0008369	.0011062	.0014485	.0018795	.0024180	.0030854	.0039064
12	.0000735	.0001024	.0001411	.0001925	.0002601	.0003483	.0004624	.0006087
13	.0000053	.0000078	.0000112	.0000159	.0000224	.0000312	.0000431	.0000591
14	.0000002	.0000003	.0000004	.0000006	.0000009	.0000013	.0000019	.0000027

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.9993807	.9995125	.9996178	.9997017	.9997662	.9998207	.9998620	.9998943
2	.9933552	.9945700	.9955817	.9964206	.9971133	.9976827	.9981468	.9985284
3	.9661387	.9713065	.9757903	.9796633	.9829938	.9858446	.9882736	.9903331
4	.8904859	.9039224	.9160686	.9269976	.9367846	.9455074	.9532444	.9600736
5	.7459180	.7697352	.7921731	.8132021	.8328139	.8510137	.8678196	.8832610
6	.5449790	.5753951	.6052426	.6343807	.6626800	.6900843	.7163113	.7414538
7	.3355318	.3643015	.3937161	.4236268	.4538793	.4843158	.5147768	.5451038
8	.1691911	.1896034	.2113473	.2343784	.2586371	.2840492	.3105862	.3379660
9	.0680476	.0789110	.0909679	.1042701	.1188614	.1347765	.1520393	.1706624
10	.0211901	.0254733	.0304262	.0361181	.0426201	.0500043	.0583426	.0677063
11	.0049091	.0061252	.0075903	.0093442	.0114305	.0138976	.0167979	.0201881
12	.0007950	.0010304	.0013259	.0016945	.0021510	.0027130	.0034009	.0042300
13	.0000802	.0001081	.0001445	.0001918	.0002529	.0003312	.0004309	.0005572
14	.0000038	.0000053	.0000074	.0000102	.0000140	.0000190	.0000257	.0000345

$$P(a,n,p) = \sum_{r=a}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 14

x	.49	.50
1	.9999195	.9999390
2	.9988362	.9990845
3	.9920711	.9935303
4	.9663718	.9713135
5	.8973776	.9102173
6	.7653769	.7880249
7	.5751407	.6047363
8	.3662539	.3952637
9	.1906456	.2119751
10	.0781644	.0897827
11	.0241294	.0286865
12	.0052508	.0064697
13	.0007163	.0009155
14	.0000460	.0000610

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 15$$

k	.01	.02	.03	.04	.05	.06	.07	.08
1	.1399416	.2614309	.3667488	.4579136	.5367088	.6047082	.6632991	.7137026
2	.0096298	.0353383	.0730725	.1191096	.1709585	.2262373	.2831530	.3402718
3	.0004158	.0030354	.0093714	.0202918	.0362002	.0571333	.0836610	.1129651
4	.0000125	.0001830	.0008476	.0024497	.0054673	.0103599	.0175327	.0273136
5	.0000003	.0000081	.0000567	.0002194	.0006147	.0014033	.0027012	.0049697
6		.0000003	.0000029	.0000150	.0000528	.0001455	.0003385	.0006953
7			.0000001	.0000008	.0000035	.0000117	.0000320	.0000757
8					.0000002	.0000007	.0000024	.0000068
9							.0000001	.0000004

k	.09	.10	.11	.12	.13	.14	.15	.16
1	.7569918	.7941089	.8258794	.8530261	.8761806	.8958938	.9126458	.9268542
2	.3964652	.4509570	.5030716	.5523978	.5986543	.6416808	.6814140	.7178663
3	.1469037	.1840611	.2237884	.2654344	.3083681	.3519964	.3957748	.4392157
4	.0399402	.0555556	.0742098	.0958651	.1204051	.1476453	.1773448	.2092183
5	.0082037	.0127205	.0187401	.0264959	.0361458	.0478459	.0617054	.0777913
6	.0013985	.0022497	.0036675	.0056851	.0084468	.0131038	.0168101	.0237171
7	.0001602	.0003106	.0005610	.0009554	.0015485	.0024064	.0036056	.0052332
8	.0000158	.0000336	.0000673	.0001261	.0002233	.0003767	.0006096	.0009515
9	.0000012	.0000028	.0000063	.0000130	.0000252	.0000468	.0000809	.0001359
10	.0000001	.0000003	.0000005	.0000010	.0000022	.0000044	.0000083	.0000151
11				.0000001	.0000001	.0000003	.0000007	.0000013
12								.0000001

k	.17	.18	.19	.20	.21	.22	.23	.24
1	.9388817	.9490425	.9576088	.9648156	.9708656	.9759333	.9801683	.9836994
2	.7511085	.7812558	.8084548	.8328742	.8546967	.8741119	.8913117	.9064860
3	.4818916	.5234371	.5635475	.6019768	.6385343	.6730802	.7055309	.7358037
4	.2429481	.2781949	.3146088	.3518379	.3895372	.4273749	.4650383	.5022384
5	.0961274	.1166940	.1394297	.1642337	.1909698	.2194703	.2495409	.2809661
6	.0299696	.0387009	.0490286	.0610514	.0748456	.0904629	.1079284	.1272400
7	.0071856	.0101668	.0136866	.0180508	.0233982	.0298183	.0374286	.0463316
8	.0014384	.0021136	.0030279	.0042397	.0058149	.0078264	.0103536	.0134015
9	.0002203	.0003458	.0005277	.0007850	.0011409	.0016335	.0022668	.0031078
10	.0000262	.0000440	.0000716	.0001132	.0001745	.0002628	.0003873	.0005599
11	.0000024	.0000043	.0000074	.0000125	.0000204	.0000325	.0000506	.0000771
12	.0000002	.0000003	.0000006	.0000010	.0000018	.0000030	.0000049	.0000079
13				.0000001	.0000001	.0000002	.0000003	.0000006

k	.25	.26	.27	.28	.29	.30	.31	.32
1	.9865365	.9890736	.9910907	.9927556	.9941268	.9952524	.9961741	.9969865
2	.9198192	.9314807	.9416625	.9504903	.9581431	.9647324	.9703907	.9752318
3	.7639122	.7896610	.8136908	.8354639	.8553600	.8731723	.8893037	.9037642
4	.5367131	.5743295	.6085854	.6416096	.6731619	.7031321	.7314388	.7580278
5	.3135141	.3469423	.3810027	.4154462	.4501275	.4845089	.5186644	.5522821
6	.1483601	.1712555	.1958190	.2219509	.2495208	.2783786	.3083569	.3392749
7	.0566203	.0683758	.0816647	.0965373	.1130757	.1311486	.1508803	.1721104
8	.0178998	.0219012	.0273800	.0338305	.0413451	.0500125	.0599156	.0711294
9	.0041930	.0055723	.0073020	.0094445	.0120671	.0152425	.0190474	.0235618
10	.0007949	.0011100	.0015262	.0020685	.0027660	.0036525	.0047665	.0061515
11	.0001153	.0001693	.0002444	.0003474	.0004866	.0006729	.0009169	.0012356
12	.0000124	.0000191	.0000290	.0000432	.0000634	.0000917	.0001307	.0001841
13	.0000009	.0000015	.0000024	.0000037	.0000058	.0000087	.0000130	.0000192
14		.0000001	.0000001	.0000002	.0000003	.0000005	.0000008	.0000012

k	.33	.34	.35	.36	.37	.38	.39	.40
1	.9975389	.9980359	.9984379	.9987621	.9990285	.9992311	.9993975	.9995298
2	.9793565	.9828589	.9858213	.9883169	.9904114	.9921621	.9936196	.9948280
3	.9166677	.9281298	.9382659	.9471093	.9550100	.9618338	.9677609	.9728860
4	.7828694	.8059568	.8273035	.8469406	.8649145	.8812843	.8961196	.9094981
5	.5851673	.6171439	.6480566	.6777710	.7061748	.7331773	.7587093	.7827823
6	.3709408	.4031560	.4357179	.4684236	.5010730	.5334717	.5654339	.5967844
7	.1950833	.2194290	.2451575	.2721604	.3003120	.3294714	.3594846	.3901868
8	.0837194	.0977397	.1132311	.1302201	.1487170	.1687154	.1901914	.2131032
9	.0286685	.0350512	.0421938	.0503786	.0596849	.0701875	.0819548	.0950474
10	.0078560	.0099337	.0124433	.0154480	.0190160	.0232190	.0281322	.0338333
11	.0016463	.0021700	.0028314	.0036589	.0046850	.0059467	.0074855	.0093477
12	.0002561	.0003521	.0004789	.0006447	.0008593	.0011348	.0014854	.0019278
13	.0000278	.0000399	.0000566	.0000795	.0001104	.0001517	.0002066	.0002789
14	.0000019	.0000030	.0000043	.0000061	.0000088	.0000127	.0000180	.0000258
15	.0000001	.0000001	.0000001	.0000002	.0000003	.0000005	.0000007	.0000011

k	.41	.42	.43	.44	.45	.46	.47	.48
1	.9996346	.9997172	.9997832	.9998330	.9998725	.9999032	.9999269	.9999450
2	.9956257	.9966459	.9973172	.9978643	.9983080	.9986662	.9989540	.9991840
3	.9773975	.9810772	.9843006	.9870365	.9893476	.9912902	.9929149	.9942869
4	.9211035	.9322237	.9417491	.9501705	.9575787	.9640625	.9697081	.9745988
5	.8051873	.8260938	.8454483	.8632722	.8796007	.8944808	.9079492	.9201311
6	.6273615	.6570179	.6856287	.7130621	.7392402	.7640794	.7875402	.8095809
7	.4214051	.4529608	.4846725	.5163585	.5478396	.5789417	.6094981	.6393515
8	.2373908	.2629766	.2897659	.3176477	.3464961	.3761718	.4065840	.4373921
9	.1095164	.1254018	.1427310	.1615177	.1817605	.2034419	.2265281	.2509681
10	.0404016	.0479172	.0564592	.0661050	.0769287	.0889995	.1023801	.1171858
11	.0115843	.0142514	.0174098	.0211247	.0254659	.0305067	.0363839	.0429969
12	.0024818	.0031702	.0040196	.0050603	.0063268	.0078579	.0096975	.0118941
13	.0003733	.0004954	.0006525	.0008530	.0011070	.0014268	.0018168	.0023040
14	.0000351	.0000485	.0000663	.0000901	.0001215	.0001626	.0002161	.0002854
15	.0000016	.0000022	.0000032	.0000045	.0000063	.0000087	.0000121	.0000165

N	.49	.50
1	.9899589	.9899695
2	.9993670	.9995117
3	.9953860	.9963074
4	.9798114	.9824219
5	.9316377	.9407654
6	.8300573	.8491211
7	.6683564	.6963806
8	.4686084	.5000000
9	.2766936	.3036194
10	.1332402	.1508789
11	.0506066	.0592346
12	.0145013	.0175781
13	.0029308	.0036926
14	.0003744	.0004883
15	.0000235	.0000305

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 16

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.1485482	.2760013	.3857463	.4795971	.5590733	.6284257	.6886082	.7366061
2	.0109339	.0399602	.0817858	.1336618	.1892403	.2469456	.3097638	.3701457
3	.0005079	.0036854	.0112795	.0242445	.0429375	.0672796	.0966814	.1311496
4	.0000168	.0002401	.0011033	.0031634	.0070039	.0131663	.0221057	.0341657
5	.0000004	.0000116	.0000804	.0003066	.0008573	.0019407	.0038130	.0067578
6		.0000004	.0000045	.0000334	.0000809	.0002210	.0005095	.0010378
7			.0000002	.0000014	.0000060	.0000197	.0000536	.0001253
8				.0000001	.0000003	.0000014	.0000044	.0000120
9						.0000001	.0000003	.0000009
10								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.7788636	.8146980	.8450327	.8706630	.8923771	.9104686	.9254489	.9385575
2	.4889308	.5852792	.6705805	.7464732	.8147327	.8772707	.9160988	.9513043
3	.1693660	.2107807	.2545096	.2998700	.3461053	.3925588	.4386007	.4837998
4	.0495669	.0684069	.0906635	.1162134	.1448403	.1762544	.2101093	.2460179
5	.0110600	.0170040	.0248489	.0348208	.0470995	.0618170	.0790513	.0988196
6	.0019199	.0033968	.0053063	.0078624	.0120476	.0171077	.0235444	.0315890
7	.0002687	.0005045	.0009027	.0015229	.0024453	.0037640	.0055863	.0080307
8	.0000285	.0000613	.0001216	.0002256	.0003955	.0006608	.0010590	.0016366
9	.0000025	.0000059	.0000130	.0000266	.0000510	.0000935	.0001609	.0002664
10	.0000002	.0000005	.0000011	.0000025	.0000052	.0000103	.0000198	.0000344
11			.0000001	.0000002	.0000004	.0000009	.0000018	.0000035
12						.0000001	.0000001	.0000003

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9492718	.9582149	.9656632	.9718525	.9769838	.9812279	.9847896	.9876115
2	.7830300	.8114574	.8367940	.8592625	.8790923	.8965120	.9117487	.9250170
3	.5876585	.6298445	.6710796	.7081563	.7439284	.7773072	.8082528	.8367674
4	.3835685	.4233385	.4619071	.4981657	.5318266	.5614300	.5903453	.6182941
5	.1910869	.2145742	.2377137	.2617546	.2852690	.3082691	.3299053	.3540714
6	.0413164	.0527396	.0660048	.0816879	.0992317	.1188445	.1404993	.1641143
7	.0113249	.0153029	.0200416	.0266573	.0348088	.0431601	.0536436	.0657 96
8	.0024494	.0035638	.0050531	.0070036	.0095074	.0126646	.0165808	.0213 55
9	.0004274	.0006640	.0010028	.0014759	.0021284	.0029881	.0041263	.00555 75
10	.0000592	.0000983	.0001583	.0002476	.0003774	.0005621	.0008195	.0011714
11	.0000064	.0000114	.0000196	.0000326	.0000527	.0000831	.0001280	.0001930
12	.0000005	.0000010	.0000019	.0000033	.0000057	.0000095	.0000154	.0000245
13		.0000001	.0000001	.0000002	.0000005	.0000008	.0000014	.0000023
14							.0000001	.0000002

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9899774	.9919145	.9934962	.9947842	.9958300	.9966767	.9973601	.9979100
2	.9365236	.9464608	.9550081	.9623304	.9685783	.9738884	.9783835	.9821737
3	.8028890	.8266842	.8482431	.8676735	.8850961	.9006403	.9144407	.9266337
4	.5950189	.6302937	.6639638	.6958808	.7259703	.7541441	.7803770	.8046634
5	.3698138	.4060370	.4424501	.4787720	.5147364	.5500959	.5846245	.6181207
6	.1896546	.2169241	.2458186	.2761296	.3076677	.3402177	.3735523	.4074372
7	.0795573	.0951245	.1124864	.1316531	.1526093	.1753134	.1996981	.2256711
8	.0271300	.0339846	.0420368	.0513884	.0621335	.0743516	.0881147	.1034753
9	.0074697	.0098178	.0127231	.0163796	.0205578	.0256735	.0317165	.0387034
10	.0016445	.0022702	.0031065	.0041338	.0054633	.0071295	.0091936	.0117220
11	.0002852	.0004139	.0005905	.0008293	.0011476	.0015663	.0021103	.0028087
12	.0000381	.0000582	.0000871	.0001264	.0001861	.0002650	.0003745	.0005206
13	.0000036	.0000061	.0000096	.0000148	.0000225	.0000336	.0000495	.0000719
14	.0000003	.0000004	.0000007	.0000012	.0000019	.0000030	.0000046	.0000070
15				.0000001	.0000001	.0000002	.0000003	.0000004

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9983511	.9987037	.9989847	.9992077	.9993842	.9995233	.9996325	.9997179
2	.9853567	.9880191	.9900371	.9916778	.9930775	.9942483	.9952730	.9961087
3	.9373850	.9467377	.9549103	.9619952	.9681085	.9733505	.9778458	.9816638
4	.8870288	.8974956	.9067403	.9150301	.9225499	.9293971	.9356597	.9414533
5	.8504090	.8613403	.8710930	.8798721	.8877985	.8949580	.9014293	.9073326
6	.4416356	.4758119	.5100364	.5437887	.5769607	.6093599	.6408113	.6711396
7	.2531163	.2818968	.3118537	.3428152	.3745936	.4069915	.4398040	.4728259
8	.1304695	.1581140	.1894054	.2243186	.2628071	.3047071	.3498227	.3978956
9	.0469693	.0583653	.0730569	.0915815	.1142268	.1410780	.1721671	.2074497
10	.0147901	.0184736	.0230859	.0288230	.0358635	.0443670	.0545230	.0665189
11	.0036956	.0048097	.0061958	.0079030	.0099875	.0125108	.0155377	.0191419
12	.0007148	.0009708	.0013023	.0017298	.0022748	.0029533	.0038254	.0048957
13	.0001031	.0001461	.0002044	.0002829	.0003875	.0005253	.0007053	.0009385
14	.0000104	.0000154	.0000225	.0000325	.0000464	.0000655	.0000915	.0001247
15	.0000007	.0000010	.0000016	.0000023	.0000035	.0000051	.0000075	.0000107
16			.0000001	.0000001	.0000001	.0000003	.0000003	.0000004

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.9997844	.9998360	.9998758	.9999068	.9999299	.9999477	.9999612	.9999714
2	.9917873	.9929350	.9938771	.9946730	.9953380	.9959118	.9964153	.9968493
3	.9849040	.9876160	.9898477	.9916007	.9933798	.9946831	.9957533	.9966271
4	.9443790	.9497422	.9544048	.9584916	.9621078	.9654572	.9684153	.9710398
5	.8580770	.8706604	.8808576	.9015074	.9146908	.9264884	.9369865	.9462753
6	.7038701	.7880898	.7543477	.7721545	.8024034	.8240640	.8441313	.8626138
7	.5086478	.5386648	.5710011	.6029881	.6339699	.6641051	.6931683	.7210328
8	.3188367	.3427700	.3735757	.4050804	.4371007	.4694460	.5010218	.5343326
9	.1619449	.1831832	.2059560	.2302149	.2558915	.2828977	.3111868	.3404517
10	.0687387	.0804607	.0935561	.1080866	.1241030	.1416430	.1607397	.1813698
11	.0833994	.0863910	.0948010	.0409160	.0486241	.0574134	.0473701	.0785785

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 16$$

r/p	.41	.42	.43	.44	.45	.46	.47	.48
12	.0062138	.0078843	.0097774	.0121287	.0149394	.0182764	.0222119	.0268834
13	.0012377	.0016189	.0021004	.0027042	.0034559	.0043851	.0055260	.0069176
14	.0001736	.0002362	.0003184	.0004258	.0005650	.0007441	.0009731	.0012639
15	.0000155	.0000217	.0000303	.0000422	.0000581	.0000795	.0001080	.0001456
16	.0000006	.0000009	.0000014	.0000020	.0000028	.0000040	.0000059	.0000079

r/p	.49	.50
1	.9999791	.9999847
2	.9996970	.9997406
3	.9973367	.9979095
4	.9869330	.9893646
5	.9544468	.9615956
6	.8795377	.8949438
7	.7475898	.7727509
8	.5664849	.5981903
9	.3707319	.4018097
10	.2035530	.2272491
11	.0911166	.1050568
12	.0321929	.0384064
13	.0086041	.0106354
14	.0016307	.0020906
15	.0001950	.0003594
16	.0000110	.0000153

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 17

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.1570568	.2906782	.4041740	.5004112	.5818797	.6507202	.7087874	.7576779
2	.0123090	.0445870	.0909046	.1465392	.2077720	.2717144	.3361606	.3994626
3	.0006122	.0044088	.0133946	.0285812	.0502530	.0781795	.1117831	.1502693
4	.0000214	.0003090	.0014086	.0040066	.0088006	.0164131	.0273400	.0419244
5	.0000006	.0000162	.0001111	.0004228	.0011646	.0026142	.0050942	.0089499
6		.0000007	.0000068	.0000346	.0001107	.0003242	.0007408	.0014948
7			.0000003	.0000022	.0000097	.0000318	.0000854	.0001982
8				.0000001	.0000006	.0000025	.0000079	.0000211
9						.0000002	.0000006	.0000018
10								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.7987649	.8332282	.8620791	.8861834	.9062811	.9230030	.9368866	.9483883
2	.4604246	.5182148	.5722902	.6223360	.6682135	.7099184	.7475463	.7812649
3	.1927268	.2382028	.2857574	.3345024	.3836269	.4324128	.4802424	.5266005
4	.0603488	.0826406	.1086865	.1382522	.1710047	.2065361	.2443060	.2840630
5	.0145256	.0221442	.0320885	.0445874	.0598058	.0778395	.0987100	.1223714
6	.0027435	.0046675	.0074738	.0113789	.0166044	.0233671	.0318704	.0422955
7	.0004119	.0007838	.0013493	.0023221	.0036936	.0056321	.0082800	.0117924
8	.0000496	.0001056	.0002076	.0003813	.0006620	.0010953	.0017381	.0026596
9	.0000048	.0000115	.0000250	.0000505	.0000958	.0001721	.0002950	.0004856
10	.0000004	.0000010	.0000024	.0000054	.0000112	.0000218	.0000404	.0000715
11		.0000001	.0000002	.0000005	.0000010	.0000022	.0000044	.0000084
12					.0000001	.0000002	.0000004	.0000008
13								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9578956	.9657362	.9721872	.9774820	.9818172	.9853577	.9882418	.9905848
2	.8112911	.8378737	.8612798	.8817805	.8996494	.9151500	.9285343	.9400398
3	.5710717	.6133348	.6531555	.6903775	.7249128	.7567324	.7858560	.8123474
4	.3250638	.3668896	.4090599	.4511238	.4926600	.5333230	.5727671	.6107277
5	.1487088	.1775475	.2086604	.2417768	.2765921	.3127779	.3499914	.3878849
6	.0547944	.0694840	.0864415	.1057012	.1272535	.1510448	.1769787	.2049192
7	.0163235	.0220415	.0291042	.0376634	.0478584	.0598107	.0736204	.0893619
8	.0039413	.0056763	.0079693	.0109343	.0145933	.0193736	.0251053	.0320177
9	.0007711	.0011059	.0017723	.0025815	.0036733	.0051170	.0069908	.0093819
10	.0001218	.0002002	.0003187	.0004932	.0007439	.0010959	.0015800	.0022337
11	.0000154	.0000271	.0000460	.0000756	.0001209	.0001885	.0002871	.0004278
12	.0000015	.0000029	.0000052	.0000092	.0000156	.0000257	.0000413	.0000649
13	.0000001	.0000002	.0000005	.0000009	.0000015	.0000027	.0000046	.0000076
14				.0000001	.0000001	.0000002	.0000004	.0000007

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9924831	.9940167	.9952522	.9962446	.9970393	.9976737	.9981785	.9985788
2	.9498870	.9582788	.9653999	.9714175	.9764813	.9807249	.9842663	.9872093
3	.8362976	.8578261	.8770697	.8941775	.9093060	.9226147	.9342630	.9444065
4	.6469819	.6813552	.7137193	.7439885	.7721168	.7980930	.8219367	.8436939
5	.4261136	.4643438	.5022588	.5395647	.5759943	.6113104	.6453078	.6778144
6	.2346944	.2661008	.2989091	.3328695	.3677177	.4031811	.4389847	.4748560
7	.1070016	.1267950	.1484861	.1721065	.1975762	.2247847	.2535929	.2838362
8	.0402366	.0498810	.0610582	.0738625	.0883107	.1046401	.1227055	.1425779
9	.0133848	.0161012	.0206378	.0261050	.0326114	.0402769	.0491999	.0594848
10	.0031008	.0042326	.0056878	.0075326	.0098407	.0126927	.0161757	.0203822
11	.0006250	.0008965	.0012642	.0017546	.0023992	.0032353	.0043061	.0056612
12	.0000999	.0001507	.0002231	.0003246	.0004649	.0006560	.0009126	.0012528
13	.0000124	.0000196	.0000305	.0000466	.0000699	.0001033	.0001502	.0002155
14	.0000011	.0000019	.0000031	.0000050	.0000079	.0000122	.0000185	.0000278
15	.0000001	.0000001	.0000002	.0000004	.0000006	.0000010	.0000016	.0000025
16						.0000001	.0000001	.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9988952	.9991444	.9993400	.9994929	.9996120	.9997044	.9997750	.9998307
2	.9896448	.9916519	.9932997	.9946442	.9957386	.9966248	.9973392	.9979124
3	.9531956	.9607734	.9672716	.9728247	.9775394	.9815246	.9848764	.9876812
4	.8834385	.8912300	.8972098	.9114576	.9240976	.9352500	.9450363	.9535771
5	.7086915	.7378331	.7651646	.7906410	.8142448	.8359833	.8558859	.8740009
6	.5105308	.5457576	.5803012	.6139467	.6465014	.6777971	.7076916	.7360688
7	.3153377	.3478615	.3812176	.4151656	.4494694	.4838915	.5181973	.5521594
8	.1642489	.1876600	.2127623	.2394574	.2676281	.2971344	.3278155	.3594923
9	.0713244	.0844999	.0993789	.1159125	.1341335	.1540544	.1756661	.1989365
10	.0254092	.0319868	.0383263	.0464185	.0557319	.0663602	.0783902	.0918993
11	.0073547	.0094554	.0120267	.0151462	.0188956	.0233619	.0286360	.0348127
12	.0016985	.0022756	.0030149	.0039521	.0051285	.0065911	.0083932	.0105942
13	.0003050	.0004263	.0005887	.0008038	.0010858	.0014517	.0019222	.0025214
14	.0000410	.0000599	.0000862	.0001227	.0001726	.0002402	.0003309	.0004514
15	.0000039	.0000059	.0000089	.0000132	.0000194	.0000281	.0000403	.0000571
16	.0000002	.0000004	.0000006	.0000009	.0000014	.0000021	.0000031	.0000046
17						.0000001	.0000001	.0000002

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	.9998738	.9999049	.9999292	.9999476	.9999614	.9999718	.9999795	.9999851
2	.9983701	.9987339	.9990216	.9992479	.9994251	.9995630	.9996697	.9997519
3	.9900163	.9919504	.9935439	.9948498	.9959143	.9967771	.9974725	.9980298
4	.9609902	.9673892	.9728624	.9775716	.9815520	.9849114	.9877303	.9900814
5	.8903928	.9051394	.9183287	.9300565	.9404236	.9495339	.9574920	.9644020
6	.7628389	.7879380	.8113270	.8329818	.8529322	.8711795	.8877732	.9027713
7	.5855606	.6181941	.6498857	.6804565	.7097645	.7376862	.7641210	.7889917
8	.3919710	.4250458	.4585070	.4921846	.5256918	.5589892	.5918077	.6239487

$$B(x;n,p) = \sum_{i=x}^{n} \binom{n}{i} p^i (1-p)^{n-i}$$

x	.41	.42	.43	.44	.45	.46	.47	.48
9	.2230105	.2502097	.2780325	.3071557	.3374356	.3687099	.4008001	.4335145
10	.1069532	.1236042	.1418880	.1618231	.1834078	.2066202	.2314160	.2577291
11	.0419885	.0502603	.0597237	.0704711	.0825096	.0961590	.1112492	.1279103
12	.0133599	.0164623	.0202795	.0247951	.0300975	.0362794	.0434364	.0516659
13	.0032779	.0042252	.0054015	.0068510	.0086235	.0107751	.0133684	.0164724
14	.0006100	.0008159	.0010847	.0014283	.0018659	.0024190	.0031130	.0039777
15	.0000803	.0001118	.0001542	.0002110	.0002862	.0003853	.0005146	.0006824
16	.0000067	.0000098	.0000138	.0000197	.0000277	.0000387	.0000537	.0000740
17	.0000003	.0000004	.0000006	.0000009	.0000013	.0000018	.0000027	.0000038

x	.49	.50
1	.9999893	.9999924
2	.9992148	.9993627
3	.9984737	.9988251
4	.9920308	.9936371
5	.9703650	.9754791
6	.9162432	.9282684
7	.8122443	.8338470
8	.6552263	.6854706
9	.4666509	.5000000
10	.2854705	.3145294
11	.1463103	.1661530
12	.0610625	.0717316
13	.0201626	.0245209
14	.0050477	.0063629
15	.0008985	.0011749
16	.0001012	.0001373
17	.0000054	.0000076

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 18

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.1654862	.3048647	.4220487	.5203967	.6027857	.6716770	.7291723	.7770636
2	.0137565	.0495088	.1003027	.1606942	.2264774	.2944547	.3622445	.4281198
3	.0007293	.0052124	.0157199	.0332995	.0581289	.0897916	.1274895	.1702048
4	.0000274	.0003910	.0017682	.0049896	.0108712	.0201191	.0332510	.0505920
5	.0000008	.0000221	.0001500	.0005663	.0015464	.0034421	.0066514	.0115878
6		.0000010	.0000099	.0000501	.0001720	.0004616	.0010455	.0020912
7			.0000005	.0000035	.0000152	.0000494	.0001313	.0003019
8				.0000002	.0000011	.0000043	.0000133	.0000352
9					.0000001	.0000003	.0000011	.0000033
10							.0000001	.0000003

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.8168761	.8499054	.8772504	.8994414	.9184645	.9337826	.9463536	.9566462
2	.4908753	.5497161	.6041670	.6539977	.6991623	.7397502	.7759473	.8080046
3	.2168196	.2662040	.3172760	.3690424	.4206231	.4712636	.5203380	.5673460
4	.0722628	.0981968	.1281643	.1618022	.1986456	.2381589	.2797645	.3228690
5	.0186497	.0281939	.0405143	.0558271	.0742617	.0956566	.1205614	.1482420
6	.0038030	.0064152	.0101814	.0153639	.0222206	.0309932	.0418964	.0551076
7	.0006216	.0011721	.0020586	.0034089	.0053720	.0081150	.0118185	.0166712
8	.0000822	.0001735	.0003375	.0006142	.0010561	.0017304	.0027194	.0041205
9	.0000088	.0000209	.0000451	.0000902	.0001694	.0003013	.0005115	.0008335
10	.0000008	.0000020	.0000049	.0000108	.0000222	.0000428	.0000786	.0001378
11	.0000001	.0000002	.0000004	.0000010	.0000024	.0000049	.0000098	.0000185
12				.0000001	.0000002	.0000005	.0000010	.0000020
13							.0000001	.0000002

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9650533	.9719037	.9774716	.9819856	.9856356	.9885790	.9909462	.9928444
2	.8362139	.8608890	.8823517	.9009208	.9169046	.9305957	.9422670	.9521706
3	.6119090	.6537518	.6926990	.7286581	.7616075	.7915843	.8186727	.8429936
4	.3668851	.4112497	.4554381	.4989745	.5414394	.5824731	.6217777	.6591164
5	.1706891	.2116291	.2467363	.2836462	.3219680	.3612978	.4012298	.4413671
6	.0707599	.0889355	.1096631	.1329163	.1586146	.1866260	.2167716	.2488310
7	.0228635	.0305812	.0399983	.0512710	.0645314	.0798822	.0973928	.1170957
8	.0066462	.0086221	.0119849	.0162801	.0216580	.0282690	.0362637	.0457803
9	.0013100	.0019942	.0029498	.0042520	.0059875	.0082534	.0111572	.0148145
10	.0002328	.0003776	.0005249	.0009109	.0013591	.0019805	.0028245	.0039492
11	.0000335	.0000582	.0000978	.0001591	.0003518	.0003881	.0005845	.0008612
12	.0000039	.0000072	.0000130	.0000225	.0000377	.0000615	.0000978	.0001520
13	.0000004	.0000007	.0000014	.0000025	.0000045	.0000078	.0000130	.0000214
14		.0000001	.0000001	.0000002	.0000004	.0000008	.0000014	.0000023
15						.0000001	.0000001	.0000002

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9943623	.9955724	.9965341	.9972961	.9978979	.9983716	.9987431	.9990336
2	.9605360	.9675706	.9734600	.9783691	.9824431	.9858095	.9885791	.9908475
3	.8646950	.8839438	.9009188	.9158047	.9287868	.9400478	.9497640	.9581034
4	.6943108	.7272377	.7578239	.7860414	.8119017	.8354495	.8567579	.8759219
5	.4813307	.5207667	.5593531	.5968033	.6328698	.6673451	.7000627	.7308958
6	.2825492	.3176440	.3538135	.3907441	.4281179	.4656199	.5029448	.5398027
7	.1389848	.1630145	.1891003	.2171201	.2469172	.2783036	.3110643	.3449625
8	.0569480	.0698786	.0846637	.1013708	.1200403	.1406835	.1632806	.1877806
9	.0193478	.0248839	.0315513	.0394771	.0487838	.0595859	.0719867	.0860746
10	.0054218	.0073184	.0097243	.0127329	.0164451	.0209680	.0264132	.0328950
11	.0012440	.0017639	.0024586	.0033724	.0045572	.0060725	.0079857	.0103719
12	.0002312	.0003446	.0005042	.0007250	.0010259	.0014298	.0019646	.0026635
13	.0000342	.0000537	.0000825	.0001244	.0001845	.0002691	.0003866	.0005474
14	.0000039	.0000065	.0000105	.0000166	.0000259	.0000395	.0000594	.0000878
15	.0000003	.0000006	.0000010	.0000017	.0000027	.0000044	.0000068	.0000106
16			.0000001	.0000001	.0000002	.0000003	.0000006	.0000009

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9992598	.9994353	.9995710	.9996755	.9997556	.9998167	.9998632	.9998984
2	.9926975	.9941994	.9954132	.9963897	.9971718	.9977951	.9982895	.9986797
3	.9652238	.9713721	.9763831	.9806797	.9842731	.9872627	.9897369	.9917736
4	.8930543	.9082800	.9217325	.9335498	.9438711	.9528343	.9605739	.9672187
5	.7597560	.7865908	.8113804	.8341350	.8548903	.8737047	.8906545	.9058314
6	.5759238	.6110632	.6450034	.6775566	.7085664	.7379079	.7654874	.7912416
7	.3797447	.4151462	.4508969	.4867268	.5223712	.5575756	.5921001	.6257231
8	.2141009	.2421285	.2717216	.3027123	.3349094	.3681021	.4020644	.4365592
9	.1019205	.1195743	.1390631	.1603886	.1835265	.2084248	.2350043	.2631588
10	.0405282	.0494254	.0596947	.0714363	.0847405	.0996840	.1163278	.1347141
11	.0133140	.0169019	.0212315	.0264043	.0325250	.0397012	.0480401	.0576473
12	.0035657	.0047167	.0061690	.0079820	.0102223	.0129640	.0162879	.0202816
13	.0007648	.0010551	.0014379	.0019372	.0025816	.0034047	.0044459	.0057505
14	.0001381	.0001844	.0002621	.0003679	.0005105	.0007006	.0009515	.0012794
15	.0000161	.0000243	.0000360	.0000526	.0000761	.0001087	.0001536	.0002148
16	.0000014	.0000023	.0000035	.0000053	.0000080	.0000119	.0000176	.0000256
17	.0000001	.0000001	.0000002	.0000003	.0000005	.0000008	.0000013	.0000019
18								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999250	.9999448	.9999597	.9999707	.9999788	.9999848	.9999891	.9999923
2	.9989862	.9992257	.9994119	.9995558	.9996664	.9997510	.9998153	.9998639
3	.9934414	.9947994	.9959099	.9967850	.9974941	.9980586	.9985052	.9988564
4	.9728909	.9777049	.9817668	.9851740	.9880150	.9903696	.9923091	.9938966
5	.9193377	.9312843	.9417868	.9509631	.9589313	.9658075	.9717040	.9767281
6	.8151360	.8371626	.8573377	.8756991	.8923033	.9072224	.9205411	.9323546

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 18

p	.41	.42	.43	.44	.45	.46	.47	.48
7	.6582447	.6894889	.7193055	.7475712	.7741900	.7990930	.8222375	.8436059
8	.4713427	.5061698	.5407976	.5749906	.6085245	.6411898	.6727950	.7031693
9	.2927563	.3236408	.3556348	.3885420	.4221509	.4562384	.4905737	.5249229
10	.1548647	.1767785	.2004302	.2257694	.2527203	.2811814	.3110266	.3421061
11	.0686241	.0810647	.0950544	.1106660	.1279578	.1469711	.1677876	.1902875
12	.0250386	.0306575	.0372405	.0448925	.0537190	.0638240	.0753084	.0882670
13	.0073705	.0093648	.0117991	.0147464	.0182868	.0225071	.0275003	.0333653
14	.0017038	.0022484	.0029409	.0038143	.0049060	.0062638	.0079330	.0099751
15	.0002975	.0004079	.0005543	.0007466	.0009971	.0013208	.0017358	.0022641
16	.0000368	.0000525	.0000748	.0001038	.0001440	.0001981	.0002703	.0003660
17	.0000029	.0000043	.0000063	.0000091	.0000132	.0000188	.0000267	.0000375
18	.0000001	.0000002	.0000003	.0000004	.0000006	.0000009	.0000013	.0000018

p	.49	.50
1	.9999946	.9999962
2	.9999003	.9999275
3	.9991308	.9993439
4	.9951878	.9962311
5	.9809813	.9845581
6	.9427629	.9518738
7	.8632037	.8810577
8	.7321651	.7596588
9	.5590529	.5927353
10	.3743489	.4072647
11	.2144478	.2403412
12	.1027865	.1189423
13	.0402050	.0481262
14	.0134540	.0154419
15	.0029316	.0037689
16	.0004918	.0006561
17	.0000523	.0000725
18	.0000027	.0000038

$$B(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 19$$

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.1738314	.3187674	.4393873	.5395808	.6226464	.6913763	.7481302	.7948986
2	.0152738	.0546160	.1099551	.1750823	.2452928	.3170881	.3879294	.4560353
3	.0008594	.0060983	.0188574	.0383953	.0665464	.1020714	.1439224	.1900380
4	.0000344	.0004875	.0021867	.0061220	.0132360	.0242994	.0398477	.0601610
5	.0000010	.0000294	.0001986	.0007431	.0020128	.0044427	.0085134	.0147082
6		.0000014	.0000141	.0000708	.0002407	.0006404	.0014379	.0028509
7		.0000001	.0000008	.0000054	.0000231	.0000741	.0001953	.0004451
8				.0000003	.0000018	.0000070	.0000216	.0000566
9					.0000001	.0000005	.0000019	.0000059
10							.0000001	.0000005

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.8333578	.8649148	.8907528	.9118605	.9290641	.9430530	.9544006	.9635828
2	.5202153	.5797350	.6342062	.6834989	.7276716	.7669148	.8015083	.8317873
3	.2414847	.2945552	.3486340	.4032371	.4568332	.5088517	.5586794	.6058520
4	.0852729	.1149976	.1489665	.1866711	.2275027	.2707935	.3158505	.3619855
5	.0234749	.0351942	.0501558	.0685441	.0904316	.1157789	.1444419	.1761823
6	.0051392	.0085910	.0135180	.0202195	.0289859	.0400741	.0536961	.0700091
7	.0009079	.0016964	.0029521	.0048435	.0075623	.0113180	.0163302	.0228210
8	.0001307	.0002733	.0005269	.0009496	.0016172	.0026243	.0040443	.0061287
9	.0001554	.0000361	.0000772	.0001531	.0002847	.0005014	.0008427	.0013594
10	.0000015	.0000039	.0000093	.0000203	.0000413	.0000790	.0001435	.0002491
11	.0000001	.0000004	.0000009	.0000022	.0000049	.0000102	.0000201	.0000376
12			.0000001	.0000002	.0000005	.0000011	.0000023	.0000047
13						.0000001	.0000002	.0000005

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9709943	.9769610	.9817520	.9855885	.9886521	.9910916	.9930285	.9945618
2	.8581166	.8808716	.9004245	.9171338	.9313381	.9433520	.9534632	.9619323
3	.6500408	.6910365	.7287330	.7631107	.7942199	.8221668	.8470994	.8691961
4	.4085392	.4549001	.5005177	.5449113	.5876747	.6284775	.6670636	.7032469
5	.2106824	.2475608	.2863897	.3267119	.3680570	.4099564	.4519558	.4936270
6	.0891078	.1110203	.1357070	.1630623	.1929188	.2250538	.2591970	.2950396
7	.0310059	.0410849	.0532346	.0676001	.0842888	.1033658	.1248499	.1487121
8	.0089052	.0125747	.0173075	.0232783	.0306614	.0396245	.0503234	.0628960
9	.0021152	.0031872	.0046664	.0066577	.0092783	.0126570	.0169317	.0222463
10	.0004154	.0006686	.0010423	.0015791	.0023310	.0033605	.0047410	.0065569
11	.0000673	.0001157	.0001922	.0003095	.0004843	.0007385	.0010997	.0016024
12	.0000089	.0000164	.0000291	.0000498	.0000826	.0001334	.0002098	.0003222
13	.0000010	.0000019	.0000036	.0000065	.0000115	.0000196	.0000325	.0000527
14	.0000001	.0000002	.0000004	.0000007	.0000013	.0000023	.0000040	.0000069
15				.0000001	.0000001	.0000002	.0000004	.0000007
16								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9957717	.9967236	.9974699	.9980532	.9985075	.9988601	.9991328	.9993428
2	.9689926	.9748511	.9796900	.9836687	.9869250	.9895782	.9917299	.9934671
3	.8886552	.9056868	.9205050	.9333227	.9443472	.9537763	.9617967	.9685615
4	.7369069	.7679813	.7964595	.8223751	.8457983	.8668290	.8855898	.9022300
5	.5345757	.5744492	.6129402	.6497900	.6847890	.7177765	.7486382	.7773042
6	.3332446	.3704559	.4093092	.4484407	.4874959	.5261375	.5640514	.6009525
7	.1748759	.2032182	.2335729	.2657349	.2994654	.3344985	.3705473	.4073114
8	.0774572	.0940940	.1128616	.1337806	.1568346	.1819695	.2090936	.2380788
9	.0287478	.0365825	.0458917	.0568073	.0694462	.0839153	.1002878	.1186205
10	.0089033	.0118854	.0156176	.0202213	.0258233	.0325534	.0405410	.0499128
11	.0022884	.0032081	.0044203	.0059933	.0080047	.0105412	.0136982	.0175793
12	.0004844	.0007136	.0010319	.0014663	.0020500	.0028226	.0038311	.0051302
13	.0000835	.0001293	.0001963	.0002926	.0004285	.0006173	.0008757	.0012246
14	.0000115	.0000188	.0000299	.0000460	.0000719	.0001084	.0001608	.0002349
15	.0000012	.0000021	.0000036	.0000059	.0000094	.0000149	.0000231	.0000353
16	.0000001	.0000002	.0000003	.0000006	.0000009	.0000015	.0000025	.0000040
17					.0000001	.0000001	.0000002	.0000003

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9955041	.9996273	.9997212	.9997923	.9998460	.9998864	.9999166	.9999391
2	.9948630	.9959796	.9968684	.9975726	.9981278	.9985633	.9989032	.9991672
3	.9742901	.9790674	.9830436	.9863353	.9890456	.9912650	.9930724	.9945361
4	.9168702	.9296973	.9408602	.9505165	.9588198	.9659171	.9719475	.9770407
5	.8037445	.8279651	.8500036	.8699243	.8878132	.9037739	.9179231	.9303863
6	.6365885	.6707426	.7032354	.7339248	.7627063	.7895107	.8143026	.8370775
7	.4444838	.4817580	.5188342	.5554255	.5912635	.6261019	.6597212	.6919305
8	.2687634	.3009545	.3344330	.3689575	.4042703	.4401021	.4761783	.5122347
9	.1369400	.1612427	.1854936	.2116252	.2395382	.2691022	.3001578	.3325190
10	.0607877	.0732761	.0874736	.1034592	.1212913	.1410055	.1626116	.1860920
11	.0222947	.0279599	.0346936	.0426150	.0518448	.0624947	.0746723	.0884741
12	.0067826	.0088597	.0114409	.0146140	.0184743	.0231241	.0286713	.0352279
13	.0016891	.0023000	.0030938	.0041133	.0054087	.0070372	.0090643	.0115629
14	.0003383	.0004804	.0006736	.0009328	.0012768	.0017282	.0023143	.0030678
15	.0000531	.0000787	.0001151	.0001661	.0002368	.0003336	.0004648	.0006407
16	.0000063	.0000097	.0000149	.0000224	.0000332	.0000487	.0000706	.0001013
17	.0000005	.0000009	.0000014	.0000021	.0000033	.0000051	.0000076	.0000114
18			.0000001	.0000001	.0000002	.0000003	.0000005	.0000008

$$F(n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

N	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999557	.9999600	.9999770	.9999836	.9999883	.9999918	.9999942	.9999960
2	.9993711	.9995277	.9996474	.9997383	.9998070	.9998585	.9998970	.9999258
3	.9957147	.9966585	.9974097	.9980041	.9984717	.9988371	.9991210	.9993400
4	.9813166	.9848846	.9878438	.9902828	.9922806	.9939065	.9952213	.9962773
5	.9412945	.9507810	.9589782	.9660159	.9720190	.9771061	.9813884	.9849690
6	.8578507	.8766937	.8936508	.9088153	.9222859	.9341715	.9445876	.9536536
7	.7285701	.7515118	.7786593	.8039475	.8273410	.8488325	.8684402	.8862050
8	.5479725	.5831638	.6175560	.6509261	.6830240	.7138253	.7430330	.7705789
9	.3659768	.4003030	.4352548	.4705794	.5060190	.5413160	.5762177	.6104812
10	.2114003	.2384607	.2671682	.2973894	.3289641	.3617076	.3954137	.4298582
11	.1039827	.1212645	.1403660	.1613115	.1841009	.2087079	.2350781	.2631292
12	.0429087	.0518285	.0621005	.0738320	.0871264	.1020717	.1187454	.1372081
13	.0146145	.0183077	.0227389	.0280107	.0342313	.0415129	.0499701	.0597181
14	.0040272	.0052373	.0067499	.0086244	.0109278	.0137352	.0171297	.0212024
15	.0008741	.0011809	.0015805	.0020964	.0027564	.0035941	.0046485	.0059654
16	.0001437	.0002018	.0002806	.0003866	.0005279	.0007145	.0009591	.0012771
17	.0000168	.0000245	.0000355	.0000508	.0000721	.0001013	.0001412	.0001952
18	.0000012	.0000019	.0000028	.0000042	.0000062	.0000091	.0000132	.0000190
19		.0000001	.0000001	.0000002	.0000003	.0000004	.0000006	.0000009

N	.49	.50
1	.9999973	.9999981
2	.9999465	.9999619
3	.9995070	.9996337
4	.9971199	.9977075
5	.9879425	.9903946
6	.9614899	.9682159
7	.9021877	.9164658
8	.7963740	.8203583
9	.6438779	.6761971
10	.4648028	.5000000
11	.2927504	.3238029
12	.1575005	.1796417
13	.0708699	.0835342
14	.0260500	.0317841
15	.0075976	.0096054
16	.0016873	.0022125
17	.0002677	.0003643
18	.0000270	.0000381
19	.0000013	.0000019

$$F(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 20$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.1820931	.3324320	.4562057	.5579976	.6415141	.7099938	.7657611	.8113067
2	.0168593	.0388990	.0596380	.0796622	.0988605	.1172435	.1348135	.1516444
3	.0010036	.0030687	.0059084	.0096638	.0141605	.0192724	.0249329	.0312538
4	.0000426	.0001997	.0004688	.0008129	.0012915	.0019157	.0027325	.0037061
5	.0000014	.0000096	.0000382	.0000983	.0002039	.0003739	.0006341	.0010068
6		.0000019	.0000196	.0000777	.0002293	.0005685	.0012338	.0023995
7		.0000001	.0000012	.0000060	.0000339	.0001081	.0002888	.0006375
8			.0000001	.0000005	.0000039	.0000110	.0000337	.0000876
9					.0000002	.0000009	.0000033	.0000099
10						.0000001	.0000003	.0000009
11								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.8483551	.8784233	.9027700	.9224372	.9382850	.9510256	.9612405	.9694096
2	.1693981	.1882530	.2063263	.2236983	.2404432	.2566341	.2723321	.2875876
3	.0365704	.0430732	.0501249	.0577685	.0660488	.0749805	.0845937	.0949217
4	.0053320	.0071745	.0094533	.0122520	.0156590	.0197317	.0245148	.0300641
5	.0006367	.0009250	.0013260	.0018719	.0025958	.0035379	.0047432	.0062591
6	.0000694	.0001168	.0001885	.0002982	.0004599	.0006927	.0010180	.0014606
7	.0000067	.0000129	.0000241	.0000436	.0000764	.0001299	.0002150	.0003480
8	.0000006	.0000013	.0000028	.0000058	.0000114	.0000218	.0000402	.0000718
9		.0000001	.0000003	.0000007	.0000015	.0000033	.0000069	.0000137
10				.0000001	.0000002	.0000004	.0000010	.0000022
11								.0000002

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9759252	.9811080	.9852191	.9884708	.9910348	.9930515	.9946320	.9958669
2	.3021058	.3161677	.3297767	.3429347	.3556741	.3680247	.3800147	.3916734
3	.1054137	.1165068	.1282544	.1407153	.1539147	.1678275	.1824631	.1978528
4	.0074945	.0094046	.0118786	.0149511	.0186493	.0230147	.0280893	.0339147
5	.0083181	.0108819	.0140740	.0180317	.0228767	.0287310	.0356306	.0436358
6	.0021755	.0031976	.0046367	.0066928	.0095979	.0136524	.0191315	.0264876
7	.0006832	.0010733	.0016703	.0025844	.0039925	.0060976	.0091645	.0135620
8	.0002683	.0004175	.0006482	.0010021	.0015397	.0023476	.0035645	.0053719
9	.0001095	.0001769	.0002852	.0004582	.0007326	.0011645	.0018389	.0028838
10	.0000474	.0000788	.0001309	.0002162	.0003548	.0005799	.0009414	.0015161
11	.0000212	.0000362	.0000612	.0001030	.0001725	.0002873	.0004778	.0007911
12	.0000098	.0000169	.0000290	.0000496	.0000844	.0001429	.0002416	.0004072
13	.0000046	.0000080	.0000139	.0000241	.0000416	.0000716	.0001232	.0002116
14	.0000022	.0000039	.0000068	.0000119	.0000208	.0000363	.0000633	.0001104
15	.0000011	.0000019	.0000034	.0000060	.0000106	.0000185	.0000326	.0000577
16						.0000001	.0000001	.0000002

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9968288	.9975754	.9981530	.9985983	.9989403	.9992021	.9994016	.9995531
2	.4056874	.4195379	.4329805	.4460206	.4586640	.4709148	.4827748	.4942473
3	.2087396	.2236695	.2393849	.2558918	.2731947	.2912963	.3101976	.3298977
4	.0748440	.0837847	.0933518	.1034404	.1140477	.1251677	.1367922	.1489103
5	.0851505	.0847675	.0954904	.1073138	.1202137	.1342617	.1495222	.1660502
6	.3828273	.4234943	.4642896	.5048185	.5447109	.5836292	.6212733	.6573850
7	.2142181	.2467000	.2810217	.3168925	.3539943	.3919902	.4305335	.4692765
8	.1016119	.1224663	.1454537	.1707278	.1981976	.2277282	.2591448	.2922332
9	.0409252	.0515355	.0639736	.0783599	.0947902	.1133315	.1340176	.1568472
10	.0136644	.0183067	.0237916	.0304654	.0384745	.0479619	.0590625	.0718991
11	.0039421	.0054642	.0074436	.0099772	.0131781	.0171448	.0220195	.0279859
12	.0009354	.0013622	.0019467	.0027339	.0037768	.0051382	.0068899	.0091139
13	.0001837	.0002812	.0004219	.0006212	.0008987	.0012789	.0017919	.0024744
14	.0000295	.0000475	.0000749	.0001156	.0001753	.0002610	.0003824	.0005516
15	.0000038	.0000065	.0000107	.0000173	.0000275	.0000429	.0000658	.0000998
16	.0000004	.0000007	.0000012	.0000020	.0000034	.0000056	.0000089	.0000140
17		.0000001	.0000001	.0000002	.0000003	.0000005	.0000009	.0000015
18							.0000001	.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9996677	.9997540	.9998188	.9998671	.9999030	.9999296	.9999491	.9999634
2	.9963946	.9972198	.9978669	.9983717	.9987635	.9990661	.9992984	.9994760
3	.9810792	.9848175	.9878823	.9903808	.9924060	.9940383	.9953464	.9963885
4	.9358188	.9464831	.9556244	.9634113	.9700034	.9755493	.9801862	.9840388
5	.8410760	.8625541	.8818034	.8989375	.9140856	.9273883	.9389926	.9490480
6	.6917499	.7241983	.7546043	.7828846	.8089958	.8329307	.8547146	.8744010
7	.5078783	.5460128	.5833746	.6196853	.6546973	.6881972	.7200079	.7499893
8	.3367311	.3624877	.3989734	.4360860	.4734577	.5107820	.5477600	.5841071
9	.1817017	.2087447	.2376224	.2682648	.3004890	.3340881	.3688058	.4044013
10	.0865780	.1031847	.1217806	.1423989	.1650427	.1896823	.2162546	.2446638
11	.0349974	.0433674	.0531666	.0645194	.0775400	.0923288	.1089687	.1275818
12	.0119016	.0153538	.0195794	.0246946	.0308214	.0380849	.0466117	.0565864
13	.0033700	.0045303	.0060153	.0078936	.0102430	.0131503	.0167110	.0210289
14	.0007640	.0010991	.0015207	.0020778	.0028056	.0037456	.0049168	.0064659
15	.0001472	.0002153	.0003106	.0004421	.0006216	.0008635	.0011861	.0016115
16	.0000817	.0000332	.0000499	.0000741	.0001085	.0001570	.0002244	.0003170
17	.0000024	.0000039	.0000061	.0000094	.0000144	.0000216	.0000328	.0000475
18	.0000002	.0000003	.0000005	.0000009	.0000014	.0000021	.0000033	.0000050
19					.0000001	.0000001	.0000002	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 20

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999739	.9999814	.9999869	.9999908	.9999936	.9999956	.9999969	.9999979
2	.9996106	.9997127	.9997891	.9998462	.9998886	.9999198	.9999427	.9999593
3	.9972139	.9976636	.9980719	.9984072	.9990726	.9993070	.9994857	.9996210
4	.9873198	.9898196	.9919571	.9936802	.9950666	.9961746	.9970541	.9977474
5	.9577036	.9651045	.9713904	.9766934	.9811347	.9848343	.9878698	.9903970
6	.8920674	.9078104	.9217416	.9339836	.9446658	.9539214	.9618840	.9686850
7	.7780385	.8040882	.8281057	.8500893	.8700662	.8880885	.9042295	.9185803
8	.6195576	.6538700	.6868304	.7182555	.7479941	.7759286	.8019744	.8260794
9	.4405950	.4771045	.5136443	.5499319	.5856938	.6206703	.6546209	.6873801
10	.2747766	.3064344	.3394454	.3735930	.4086388	.4443275	.4803916	.5165572
11	.1480239	.1704869	.1948909	.2211858	.2492894	.2790876	.3104359	.3431891
12	.0679490	.0809916	.0957546	.1123234	.1307650	.1511243	.1734218	.1976508
13	.0262151	.0323865	.0396644	.0481724	.0580341	.0693699	.0822945	.0969133
14	.0083680	.0107269	.0136252	.0171544	.0214144	.0265129	.0325647	.0396899
15	.0021669	.0028846	.0038034	.0049687	.0064336	.0082590	.0105147	.0132798
16	.0004432	.0006130	.0008396	.0011389	.0015307	.0020391	.0026931	.0035275
17	.0000688	.0000990	.0001409	.0001986	.0002772	.0003834	.0005256	.0007145
18	.0000076	.0000114	.0000169	.0000247	.0000359	.0000515	.0000734	.0001035
19	.0000005	.0000008	.0000013	.0000020	.0000030	.0000044	.0000065	.0000096
20				.0000001	.0000001	.0000002	.0000003	.0000004

x	.49	.50
1	.9999986	.9999990
2	.9999714	.9999800
3	.9997228	.9997986
4	.9982900	.9987116
5	.9924394	.9940910
6	.9744516	.9793053
7	.9312459	.9423409
8	.8492227	.8684120
9	.7106010	.7482777
10	.5525496	.5880985
11	.3770561	.4119015
12	.2237730	.2517223
13	.1133189	.1315880
14	.0480128	.0576591
15	.0166402	.0206947
16	.0045033	.0059690
17	.0009633	.0013884
18	.0001449	.0002012
19	.0000139	.0000200
20	.0000006	.0000010

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 21

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.1902721	.3457442	.4785195	.5756777	.6594384	.7273001	.7821578	.8264021
2	.0185117	.0653488	.1299291	.2043956	.2830282	.3617663	.4378267	.5093973
3	.0011621	.0081253	.0239732	.0496948	.0849175	.1284468	.1786327	.2337410
4	.0000522	.0007291	.0033190	.0088709	.0188806	.0341261	.0551038	.0819303
5	.0000018	.0000498	.0003305	.0012165	.0032403	.0070340	.0132566	.0225261
6		.0000027	.0000268	.0001321	.0004415	.0011545	.0025473	.0049631
7		.0000001	.0000018	.0000116	.0000487	.0001537	.0003978	.0008905
8			.0000001	.0000008	.0000044	.0000160	.0000511	.0001316
9					.0000003	.0000015	.0000054	.0000165
10						.0000001	.0000005	.0000017
11								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.8620031	.8905810	.9134653	.9317447	.9463087	.9578820	.9670544	.9743040
2	.5753942	.6352700	.6888641	.7362365	.7778289	.8136973	.8449619	.8715203
3	.2919349	.3515912	.4112671	.4697525	.5260776	.5795035	.6295048	.6757413
4	.1143835	.1519653	.1939721	.2395641	.2878301	.3378419	.3886992	.4395637
5	.0353633	.0521524	.0731169	.0983121	.1276293	.1608106	.1974714	.2371258
6	.0087917	.0144453	.0223306	.0328226	.0462398	.0628259	.0827348	.1060231
7	.0017838	.0032728	.0055921	.0090082	.0138068	.0202899	.0287410	.0394312
8	.0002986	.0005127	.0011549	.0020494	.0034245	.0054517	.0083232	.0122509
9	.0000415	.0000954	.0002001	.0001888	.0007091	.0012246	.0020177	.0031908
10	.0000048	.0000124	.0000289	.0000617	.0001230	.0002306	.0004105	.0006981
11	.0000005	.0000014	.0000035	.0000082	.0000179	.0000364	.0000701	.0001283
12		.0000001	.0000004	.0000009	.0000022	.0000048	.0000100	.0000198
13				.0000001	.0000002	.0000005	.0000018	.0000025
14							.0000001	.0000003

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9800180	.9845086	.9880275	.9907766	.9929178	.9945802	.9958666	.9968589
2	.8940711	.9130970	.9290516	.9423539	.9533829	.9624780	.9699391	.9760282
3	.7180353	.7563398	.7907136	.8212972	.8482902	.8719335	.8924931	.9102473
4	.4896837	.5384050	.5851990	.6296240	.6713619	.7101916	.7459828	.7786854
5	.2792151	.3231360	.3682669	.4139916	.4597199	.5049038	.5490501	.5917291
6	.1326478	.1624688	.1952568	.2310041	.2684384	.3080381	.3490483	.3909970
7	.0525949	.0684197	.0870365	.1085125	.1328465	.1599681	.1897395	.2219595
8	.0174509	.0241806	.0326401	.0430206	.0556105	.0704753	.0877701	.1075730
9	.0048663	.0071863	.0103107	.0144140	.0196812	.0263026	.0344679	.0442537
10	.0011404	.0017978	.0027450	.0040722	.0058855	.0083063	.0114703	.0155255
11	.0002247	.0003784	.0006154	.0009697	.0014848	.0022152	.0032270	.0045969
12	.0000371	.0000669	.0001159	.0001941	.0003151	.0004972	.0007647	.0011483
13	.0000051	.0000099	.0000182	.0000325	.0000559	.0000934	.0001518	.0002403
14	.0000006	.0000012	.0000024	.0000045	.0000082	.0000146	.0000250	.0000418
15	.0000001	.0000001	.0000003	.0000005	.0000010	.0000019	.0000034	.0000060
16					.0000001	.0000002	.0000004	.0000007
17								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9976216	.9982058	.9986517	.9989908	.9992476	.9994415	.9995871	.9996961
2	.9809727	.9849677	.9881795	.9907489	.9927943	.9944145	.9956916	.9966932
3	.9254765	.9384553	.9494465	.9586971	.9664356	.9728706	.9781901	.9825617
4	.8083179	.8349547	.8587157	.8797546	.8982495	.9143943	.9283911	.9404442
5	.6325799	.6713120	.7077050	.7416053	.7729215	.8016185	.8277106	.8512543
6	.4334101	.4758252	.5178038	.5589412	.5988745	.6372881	.6739175	.7085505
7	.2563704	.2926665	.3305040	.3695118	.4093021	.4494819	.4896629	.5294712
8	.1299134	.1547670	.1820570	.2116539	.2433786	.2770068	.3122749	.3489071
9	.0561468	.0699775	.0859732	.1042229	.1247784	.1476505	.1728060	.2001707
10	.0206296	.0269462	.0346407	.0438758	.0548061	.0675728	.0822986	.0990825
11	.0064237	.0088032	.0116575	.0150139	.0190093	.0236028	.0289273	.0350028
12	.0016871	.0024287	.0034309	.0047620	.0065015	.0087402	.0115801	.0151338
13	.0003716	.0005623	.0008336	.0012128	.0017334	.0024367	.0033723	.0045890
14	.0000681	.0001083	.0001686	.0002572	.0003851	.0005664	.0008194	.0011669
15	.0000102	.0000171	.0000280	.0000449	.0000704	.0001084	.0001640	.0002440
16	.0000012	.0000022	.0000038	.0000063	.0000104	.0000168	.0000265	.0000413
17	.0000001	.0000002	.0000004	.0000007	.0000012	.0000020	.0000034	.0000055
18				.0000001	.0000001	.0000002	.0000003	.0000006

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9997774	.9998377	.9998822	.9999149	.9999389	.9999563	.9999690	.9999781
2	.9974747	.9980614	.9985500	.9989100	.9991851	.9993942	.9995522	.9996709
3	.9861333	.9890343	.9913769	.9932575	.9947583	.9959489	.9968877	.9976235
4	.9507547	.9595168	.9669147	.9731203	.9782923	.9825751	.9860987	.9889787
5	.8733411	.8910899	.9076408	.9231481	.9347752	.9456895	.9550581	.9630444
6	.7410275	.7712392	.7991240	.8246637	.8478791	.8688246	.8875830	.9042598
7	.5685560	.6065958	.6433050	.6784370	.7117878	.7431959	.7725435	.7997530
8	.3865231	.4248466	.4635138	.5021818	.5405164	.5781198	.6143367	.6504600
9	.2296216	.2609969	.2940952	.3286805	.3644075	.4011228	.4385279	.4762836
10	.1179952	.1390751	.1623252	.1877106	.2151578	.2445542	.2757496	.3085582
11	.0520190	.0637053	.0771815	.0925560	.1099160	.1293231	.1508102	.1743779
12	.0195232	.0248784	.0313349	.0390316	.0481073	.0586976	.0709309	.0849243
13	.0061854	.0082103	.0107627	.0139420	.0178570	.0226254	.0283783	.0352279
14	.0016374	.0022657	.0030938	.0041715	.0055574	.0073194	.0095348	.0122911
15	.0003774	.0005158	.0007341	.0010310	.0014297	.0019587	.0026528	.0035533
16	.0000631	.0000951	.0001412	.0002066	.0002984	.0004255	.0005994	.0008348
17	.0000088	.0000138	.0000214	.0000327	.0000492	.0000731	.0001071	.0001552
18	.0000009	.0000015	.0000025	.0000039	.0000062	.0000095	.0000146	.0000220
19	.0000001	.0000001	.0000002	.0000003	.0000006	.0000008	.0000014	.0000022
20						.0000001	.0000001	.0000001

$$B(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 21

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999846	.9999892	.9999925	.9999948	.9999965	.9999976	.9999984	.9999989
2	.9997597	.9998255	.9998742	.9999098	.9999358	.9999547	.9999682	.9999779
3	.9981966	.9986402	.9989813	.9992420	.9994308	.9995689	.9997005	.9997834
4	.9913174	.9932639	.9947155	.9959195	.9968693	.9976155	.9981970	.9986467
5	.9694052	.9754890	.9803341	.9841676	.9874052	.9900508	.9921970	.9939258
6	.9109782	.9218739	.9430906	.9527759	.9610777	.9681413	.9741067	.9791067
7	.8247903	.8476515	.8683691	.8870028	.9036360	.9183716	.9313271	.9426305
8	.6845347	.7169616	.7475708	.7762634	.8029266	.8275221	.8500343	.8704799
9	.5139697	.5513460	.5881143	.6239943	.6587289	.6920091	.7230770	.7539287
10	.3487688	.3781159	.4143509	.4511821	.4883135	.5254452	.5622794	.5985273
11	.1999925	.2275849	.2570493	.2882449	.3209966	.3550980	.3903150	.4263908
12	.1007797	.1185796	.1383832	.1602229	.1841009	.2099875	.2370184	.2674945
13	.0433260	.0528006	.0637832	.0763909	.0907630	.1069769	.1251243	.1452670
14	.0156853	.0198239	.0248220	.0308023	.0378932	.0462271	.0559377	.0671571
15	.0047093	.0061783	.0080267	.0103304	.0131749	.0166558	.0208782	.0259563
16	.0011499	.0015671	.0021140	.0028240	.0037170	.0049003	.0063693	.0082083
17	.0002223	.0003149	.0004413	.0006123	.0008413	.0011450	.0015444	.0020647
18	.0000327	.0000482	.0000708	.0001012	.0001445	.0002042	.0002859	.0003968
19	.0000034	.0000053	.0000080	.0000120	.0000178	.0000261	.0000379	.0000547
20	.0000002	.0000004	.0000006	.0000009	.0000014	.0000021	.0000032	.0000048
21					.0000001	.0000001	.0000001	.0000002

r	.49	.50
1	.9999993	.9999995
2	.9999847	.9999895
3	.9998446	.9998864
4	.9989221	.9992552
5	.9953062	.9964013
6	.9832656	.9866983
7	.9584167	.9668231
8	.8889040	.9051764
9	.7821157	.8084448
10	.6339148	.6681001
11	.4610479	.5000000
12	.2988857	.3318119
13	.1674414	.1916558
14	.0800128	.0946236
15	.0320128	.0391769
16	.0104918	.0133018
17	.0027371	.0035907
18	.0005459	.0007440
19	.0000781	.0001106
20	.0000071	.0000105
21	.0000003	.0000005

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 22

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.1983694	.3588293	.4803439	.5926506	.6764665	.7436621	.7974068	.8402900
2	.0202993	.0709567	.1402068	.2192469	.3018487	.3836983	.4610299	.5347577
3	.0013356	.0092698	.0271519	.0556828	.0942230	.1424460	.1967949	.2557935
4	.0000633	.0008770	.0038416	.0105039	.0221825	.0397854	.0637523	.0940751
5	.0000023	.0000634	.0004172	.0015226	.0040223	.0086596	.0161859	.0278784
6	.0000001	.0000036	.0000359	.0001755	.0005815	.0015078	.0032970	.0063681
7		.0000002	.0000025	.0000164	.0000684	.0002137	.0005483	.0012165
8			.0000001	.0000013	.0000066	.0000250	.0000754	.0001923
9				.0000001	.0000005	.0000024	.0000086	.0000254
10						.0000002	.0000008	.0000028
11							.0000001	.0000003

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.8744228	.9015829	.9229841	.9399354	.9532885	.9637705	.9719962	.9784154
2	.6011890	.6668011	.7135702	.7597415	.7997313	.8340552	.8632758	.8879656
3	.3174462	.3799591	.4418028	.5017366	.5580052	.6123187	.6610831	.7070659
4	.1303631	.1719879	.2178745	.2671867	.3180023	.3716745	.4244200	.4773521
5	.0424751	.0621337	.0864110	.1152624	.1484554	.1855950	.2261556	.2695158
6	.0111831	.0182160	.0279171	.0406813	.0568205	.0765439	.0999452	.1269995
7	.0024145	.0043900	.0074333	.0118659	.0180249	.0262449	.0368401	.0500859
8	.0004323	.0008787	.0016466	.0028045	.0047745	.0075291	.0113858	.0165998
9	.0000647	.0001472	.0003055	.0005881	.0010621	.0018164	.0029636	.0046404
10	.0000081	.0000207	.0000477	.0001010	.0001992	.0003694	.0006516	.0010969
11	.0000009	.0000025	.0000063	.0000146	.0000315	.0000636	.0001218	.0002195
12	.0000001	.0000002	.0000007	.0000018	.0000042	.0000098	.0000190	.0000371
13			.0000001	.0000002	.0000005	.0000011	.0000025	.0000053
14						.0000001	.0000003	.0000006
15								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9834149	.9872970	.9903023	.9926213	.9944051	.9957725	.9968173	.9976127
2	.9086821	.9289511	.9402571	.9520305	.9616852	.9695405	.9759024	.9810876
3	.7479614	.7848561	.8169979	.8455085	.8703597	.8918531	.9103057	.9260347
4	.5285035	.5776366	.6242468	.6679586	.7085169	.7457748	.7796802	.8102603
5	.3149947	.3618851	.4094840	.4571181	.5041648	.5500671	.5943446	.6365986
6	.1575642	.1913089	.2261387	.2671416	.3086075	.3513486	.3950407	.4391727
7	.0662039	.0853485	.1075984	.1329508	.1613206	.1925435	.2263806	.2625005
8	.0234328	.0321436	.0429754	.0561446	.0718301	.0901637	.1112231	.1350955
9	.0070072	.0102452	.0145533	.0201417	.0272263	.0360206	.0467274	.0595310
10	.0017738	.0027677	.0041825	.0061406	.0087826	.0122656	.0167597	.0224457
11	.0003804	.0006339	.0010200	.0015902	.0024090	.0035552	.0051829	.0072813
12	.0000690	.0001229	.0002108	.0003492	.0005607	.0008752	.0013310	.0019765
13	.0000106	.0000201	.0000368	.0000648	.0001103	.0001823	.0002927	.0004582
14	.0000014	.0000028	.0000054	.0000101	.0000183	.0000319	.0000542	.0000894
15	.0000001	.0000003	.0000007	.0000013	.0000025	.0000047	.0000084	.0000146
16			.0000001	.0000001	.0000003	.0000006	.0000011	.0000020
17						.0000001	.0000001	.0000002

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.9982162	.9986723	.9990158	.9992734	.9994658	.9996090	.9997151	.9997934
2	.9851349	.9884096	.9910070	.9930566	.9946658	.9959226	.9968998	.9976541
3	.9393506	.9505485	.9599044	.9676716	.9740796	.9793338	.9836156	.9870838
4	.8376075	.8618649	.8832130	.9018585	.9180235	.9319372	.9438280	.9539218
5	.6765144	.7118591	.7484779	.7862871	.8092666	.8354312	.8589216	.8797951
6	.4833026	.5266516	.5690771	.6100871	.6493481	.6865872	.7215933	.7543158
7	.3006303	.3402878	.3810750	.4225520	.4642761	.5058237	.5467810	.5867766
8	.1615276	.1906209	.2221377	.2558541	.2914964	.3287493	.3672652	.4066740
9	.0745885	.0920228	.1119158	.1343036	.1591724	.1864574	.2160419	.2477600
10	.0295089	.0381343	.0485005	.0607730	.0750980	.0915961	.1103561	.1314307
11	.0099744	.0135204	.0180090	.0235992	.0304557	.0387448	.0486295	.0602646
12	.0028710	.0040861	.0057061	.0078385	.0105639	.0140351	.0183761	.0237301
13	.0007005	.0010475	.0015349	.0022065	.0031161	.0043277	.0059167	.0079701
14	.0001440	.0002283	.0003481	.0005248	.0007761	.0011275	.0016100	.0022652
15	.0000247	.0000408	.0000660	.0001043	.0001616	.0002458	.0003671	.0005393
16	.0000035	.0000061	.0000103	.0000171	.0000278	.0000442	.0000691	.0001061
17	.0000004	.0000007	.0000013	.0000023	.0000039	.0000065	.0000106	.0000170
18		.0000001	.0000001	.0000002	.0000004	.0000007	.0000013	.0000021
19						.0000001	.0000001	.0000002

r	.33	.34	.35	.36	.37	.38	.39	.40
1	.9998508	.9998929	.9999234	.9999456	.9999615	.9999729	.9999811	.9999868
2	.9962346	.9976786	.9986163	.9992718	.9994640	.9996078	.9997147	.9997938
3	.9897760	.9921103	.9938875	.9952924	.9963962	.9972881	.9979269	.9984425
4	.9624297	.9695528	.9754764	.9803697	.9843847	.9876572	.9903064	.9924366
5	.8982176	.9143551	.9283866	.9404981	.9508765	.9597061	.9671639	.9734101
6	.7843610	.8119885	.8371049	.8597580	.8800306	.8980333	.9138983	.9277736
7	.6254716	.6625746	.6978416	.7310786	.7621415	.7909348	.8174069	.8415563
8	.4465939	.4866413	.5264407	.5656317	.6038868	.6408983	.6764034	.7101776
9	.2813991	.3167058	.3533917	.3911409	.4296102	.4684773	.5073701	.5459541
10	.1548319	.1805285	.2084447	.2384598	.2704098	.3040903	.3392604	.3756483
11	.0737911	.0893310	.1069818	.1268117	.1488555	.1731109	.1995366	.2280500
12	.0302468	.0380795	.0473812	.0583004	.0709765	.0855353	.1020838	.1207057
13	.0105869	.0138774	.0179630	.0229742	.0290496	.0363339	.0449701	.0551065
14	.0031383	.0042869	.0057779	.0076889	.0101063	.0131357	.0168814	.0214658
15	.0007798	.0011108	.0015600	.0021616	.0029569	.0039958	.0053368	.0070484
16	.0001602	.0002381	.0003467	.0005034	.0007169	.0010081	.0014002	.0019223
17	.0000267	.0000415	.0000633	.0000953	.0001414	.0002070	.0002991	.0004271
18	.0000035	.0000057	.0000091	.0000143	.0000221	.0000337	.0000507	.0000753
19	.0000004	.0000006	.0000010	.0000016	.0000026	.0000042	.0000065	.0000103
20			.0000001	.0000001	.0000003	.0000004	.0000006	.0000010
21								.0000001

$$B(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 22

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999990	.9999938	.9999957	.9999971	.9999981	.9999987	.9999991	.9999994
2	.9998519	.9998943	.9999251	.9999472	.9999631	.9999744	.9999824	.9999880
3	.9988375	.9991380	.9993653	.9995358	.9996630	.9997571	.9998263	.9998767
4	.9941370	.9954471	.9965498	.9973808	.9980260	.9985333	.9989036	.9991923
5	.9796254	.9827293	.9864611	.9899380	.9916640	.9935306	.9950170	.9961915
6	.9398173	.9501923	.9590623	.9665862	.9729251	.9782127	.9826098	.9862196
7	.8614074	.8833249	.9029993	.9215242	.9389438	.9544457	.9681335	.9801391
8	.7420395	.7718512	.7995180	.8249881	.8483458	.8695129	.8882419	.9051188
9	.5839013	.6209504	.6566040	.6903282	.7220179	.7516803	.7793709	.8050833
10	.4129572	.4508725	.4876022	.5227195	.5560065	.5873014	.6165303	.6437000
11	.2585281	.2908079	.3246890	.3599273	.3962892	.4334577	.4711383	.5090160
12	.1414570	.1643618	.1894097	.2165523	.2457040	.2767383	.3094918	.3437644
13	.0668820	.0804278	.0958612	.1132814	.1327651	.1543618	.1780905	.2039362
14	.0270180	.0336741	.0 15753	.0500648	.0616846	.0741720	.0884554	.1046499
15	.0092095	.0119095	.0 .524B7	.0193980	.0242962	.0302586	.0373562	.0457327
16	.0026092	.0035038	.0046565	.006 .260	.007N841	01 . 770	.0131885	.0167274
17	.0006026	.0008468	.0011606	.0015855	.0021444	.0028424	.0038121	.0050137
18	.0001104	.0001602	.0 02298	.0003261	.0004580	.0006376	.0008774	.0011974
19	.0000154	.0000233	.0000347	.0000513	.0000748	.0001080	.0001548	.0002189
20	.0 0015	.0000024	.0000038	.0 100058	.0000088	.0000131	.0000195	.0000287
21	.0000001	.0000002	.0000003	.0000004	.0000007	.0000010	.0000016	.0000024
22							.0000001	.0000001

r	.49	.50
1	.9999996	.9999998
2	.9999918	.9999945
3	.9999112	.9999394
4	.9994098	.9995723
5	.9971123	.9978282
6	.9891658	.9915497
7	.9677327	.9737606
8	.9209253	.9330997
9	.8544420	.8568506
10	.7065332	.7382665
11	.5467727	.5840940
12	.3793231	.4159060
13	.2314471	.2617335
14	.1220528	.1431394
15	.0553378	.0669003
16	.0210348	.0262394
17	.0065366	.0084503
18	.0016196	.0021718
19	.0003073	.0004277
20	.0000419	.0000606
21	.0000037	.0000055
22	.0000002	.0000002

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.2063857	.3716537	.5036936	.6082445	.6926431	.7590434	.8115803	.85306[illegible]
2	.0220107	.0767142	.1506509	.2341850	.3205796	.4052961	.4854133	.5892003
3	.0015246	.0105035	.0305436	.0624174	.1051743	.1569211	.2153544	.2701106
4	.0000761	.0010440	.0045410	.0123190	.0258145	.0459450	.0730658	.1070126
5	.0000029	.0000797	.0005109	.0018819	.0049303	.0105271	.0195156	.0326231
6	.0000001	.0000048	.0000474	.0002293	.0007535	.0019364	.0041992	.0080409
7		.0000003	.0000035	.0000228	.0000940	.0002214	.0007407	.0016885
8			.0000002	.0000019	.0000097	.0000364	.0001085	.0003743
9				.0000001	.0000008	.0000038	.0000133	.0000388
10					.0000001	.0000003	.0000014	.0000046
11							.0000001	.00000[illegible]

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.8857248	.9113706	.9314559	.9471431	.9593610	.9688495	.9761966	.9810609
2	.6257801	.6848733	.7366050	.7813648	.8196937	.8522165	.8795830	.9024575
3	.3429031	.4080433	.4716972	.5326978	.5901256	.6443618	.6920410	.7160099
4	.1472006	.1927310	.2425066	.2953387	.3500087	.4053647	.4603704	.5141063
5	.0503050	.0731131	.1000790	.1334933	.1726005	.2116461	.2559558	.3027696
6	.0139994	.0226078	.0343515	.0526310	.0687330	.0910109	.1188760	.1490021
7	.0032037	.0057786	.0096065	.0153238	.0330683	.0332060	.0463559	.0623921
8	.0006107	.0012290	.0022831	.0039623	.0064970	.0101493	.0152040	.0219575
9	.0000978	.0002203	.0004530	.0008637	.0015447	.0026162	.0043269	.0065539
10	.0000138	.0000334	.0000761	.0001594	.0003113	.0005723	.0009984	.0016638
11	.0000015	.0000043	.0000100	.0000250	.0000533	.0001065	.0002007	.0003598
12	.0000001	.0000005	.0000013	.0000033	.0000070	.0000169	.0000344	.0000663
13			.0000001	.0000004	.0000010	.0000023	.0000050	.0000104
14					.0000001	.0000003	.0000006	.0000014
15							.0000001	.0000002

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9862344	.9895836	.9921440	.9940070	.9955800	.9967026	.9975493	.9981857
2	.9213066	.9369913	.9497657	.9601550	.9685564	.9753115	.9807128	.9850[illegible]
3	.7758839	.8100072	.8404171	.8668145	.8895380	.9089445	.9253929	.9392[illegible]
4	.5658113	.6148821	.6608695	.7034686	.7425039	.7779131	.8097240	.8180[illegible]
5	.3518918	.4007204	.4502809	.4998862	.5470787	.5931820	.6369710	.6780[illegible]
6	.1843274	.2220708	.2635862	.3053189	.3496746	.3950666	.4408060	.4865550
7	.0817351	.1044350	.1304291	.1598330	.1928510	.2274806	.2651740	.3049931
8	.0307039	.0417205	.0552538	.0715058	.0906231	.1126073	.1377093	.1658265
9	.0097995	.0141069	.0199535	.0273423	.0365931	.0479321	.0615614	.0776198
10	.0026635	.0041137	.0061529	.0080400	.0126550	.0174916	.0236521	.0312168
11	.0006173	.0010180	.0016220	.0025003	.0037474	.0054715	.0077[illegible]	[illegible]
12	.0001220	.0002149	.0003636	.0005974	.0009409	.0014640	.0022031	.0032[illegible]
13	.0000205	.0000386	.0000695	.0001217	.0002049	.0003347	.0005315	.0008[illegible]
14	.0000029	.0000059	.0000114	.0000210	.0000376	.0000652	.0001090	.0001779
15	.0000004	.0000006	.0000016	.0000031	.0000050	.0000107	.0000189	.0000[illegible]
16		.0000001	.0000002	.0000004	.0000008	.0000015	.0000027	.0000050
17					.0000001	.0000002	.0000003	.0000006
18								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.9986621	.9990175	.9992815	.9994768	.9996307	.9997363	.9998034	.99[illegible]
2	.9884053	.9910779	.9931693	.9947923	.9960578	.9970285	.9977721	.99[illegible]367
3	.9507967	.9603924	.9683021	.9747794	.9800496	.9843104	.9877355	.99[illegible]
4	.8630433	.8849226	.9039197	.9202063	.9343708	.9461562	.9561627	.96[illegible]
5	.7167877	.7523406	.7840564	.8143271	.8408061	.8643970	.8852420	.90[illegible]
6	.5315305	.5753257	.6175153	.6577431	.6957245	.7312464	.7641651	.7944[illegible]
7	.3462734	.3887424	.4310356	.4750619	.5179484	.5600528	.6009734	.6403571
8	.1963033	.2295343	.2650508	.3025295	.3416031	.3810716	.4229153	.4643069
9	.0963233	.1176583	.1416757	.1683377	.1975464	.2291450	.2629211	.2986[illegible]
10	.0407788	.0521453	.0656226	.0813616	.0994796	.1200545	.1431187	.1686561
11	.0148581	.0199200	.0262417	.0340079	.0434030	.0546008	.0677647	.0830370
12	.0046460	.0065390	.0090279	.0132443	.0163325	.0214480	.0277547	.0354211
13	.0012431	.0018376	.0026611	.0037807	.0052760	.0072399	.0097791	.0130133
14	.0002831	.0004398	.0006686	.0009957	.0014547	.0020875	.0029456	.0040900
15	.0000545	.0000891	.0001422	.0002220	.0003398	.0005103	.0007527	.0010916
16	.0000088	.0000151	.0000253	.0000415	.0000666	.0001047	.0001615	.0002447
17	.0000012	.0000021	.0000037	.0000064	.0000108	.0000170	.0000267	.0000455
18	.0000001	.0000002	.0000004	.0000008	.0000014	.0000025	.0000042	.0000069
19				.0000001	.0000001	.0000003	.0000005	.0000009
20								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999001	.9999293	.9999502	.9999652	.9999757	.9999832	.9999884	.[illegible]99921
2	.9987680	.9990914	.9993338	.9995143	.9996481	.9997465	.9998186	.9[illegible]98710
3	.9936343	.9943435	.9956826	.9967250	.9975313	.9981510	.9986241	.9989830
4	.9714869	.9772233	.9819203	.9857419	.9888290	.9913055	.9932784	.9[illegible]48390
5	.9194076	.9331223	.9448681	.9548519	.9632746	.9703275	.9761895	.9810255
6	.8219337	.8467931	.8690535	.8880245	.9062436	.9214689	.9345719	.9460314
7	.6779051	.7133753	.7465837	.7774032	.8057605	.8316322	.8550398	.876[illegible]433
8	.5056236	.5464586	.5864310	.6351939	.6624410	.6979122	.7313955	.76[illegible]91
9	.3359134	.3744839	.4139589	.4539583	.4940976	.5339973	.5732931	.611[illegible]35
10	.1965991	.2268288	.2591762	.2934250	.3293169	.3665574	.4048233	.443[illegible]707
11	.1005346	.1203382	.1424938	.1670050	.1938306	.2228031	.2540289	.2870193
12	.0446165	.0555050	.0682414	.0829644	.0997917	.1188140	.1400904	.1636[illegible]34
13	.0170747	.0221062	.0282594	.0356916	.0445635	.0550298	.0672445	.0813462
14	.0055963	.0075477	.0100437	.0131916	.0171166	.0219506	.0278360	.0349[illegible]21
15	.0015581	.0021906	.0030363	.0041514	.0056029	.0074689	.0098392	.0128154
16	.0003647	.0005348	.0007726	.0011003	.0015457	.0021434	.0029355	.00397[illegible]7
17	.0000700	.0001083	.0001632	.0002422	.0003544	.0005114	.0007286	.0010851
18	.0000113	.0000179	.0000281	.0000435	.0000662	.0000995	.0001476	.0002169

$n = 25$

	.34	.35	.36	.37	.38	.39	.40
4	.0000014	.0000023	.0000038	.0000061	.0000098	.0000154	.0000238	.0000362
5	.0000001	.0000002	.0000004	.0000007	.0000011	.0000018	.0000029	.0000044
21				.0000001	.0000001	.0000002	.0000003	.0000004

	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999945	.9999964	.9999976	.9999984	.9999989	.9999993	.9999995	.9999997
2	.9999889	.9999961	.9999955	.9999692	.9999788	.9999856	.9999903	.9999935
3	.9994534	.9994857	.9996060	.9997169	.9997981	.9998571	.9998997	.9999301
4	.9960647	.9970205	.9977604	.9983290	.9987627	.9990908	.9993373	.9995209
5	.9849854	.9882646	.9907902	.9928768	.9945269	.9958272	.9968437	.9976319
6	.9557285	.9639418	.9708438	.9765981	.9813576	.9852627	.9884409	.9910061
7	.8947354	.9112152	.9256814	.9382269	.9490329	.9582645	.9660861	.9726577
8	.7941803	.8185443	.8429403	.8650083	.8844034	.9024112	.9179420	.9315851
9	.6687380	.6843022	.7181029	.7499504	.7797005	.8072536	.8325543	.8555880
10	.4830443	.5222860	.5611436	.5992795	.6363783	.6721534	.7063524	.7387616
11	.3219440	.3593350	.3953725	.4335415	.4722093	.5110338	.5496715	.5877859
12	.1844561	.2174692	.2475798	.2796419	.3134674	.3488293	.3854657	.4230852
13	.0974578	.1156801	.1360870	.1587207	.1835876	.2106550	.2398491	.2710538
14	.0433622	.0533107	.0649163	.0783281	.0936708	.1110593	.1305939	.1523073
15	.0165110	.0210506	.0265692	.0332098	.0411421	.0504588	.0613728	.0740130
16	.0053151	.0070342	.0092111	.0119398	.0151254	.0194852	.0245473	.0306499
17	.0014253	.0019593	.0026639	.0035837	.0047722	.0062927	.0082190	.0106362
18	.0003122	.0004461	.0006330	.0008802	.0012169	.0016653	.0022567	.0030292
19	.0000544	.0000808	.0001186	.0001722	.0002473	.0003513	.0004943	.0006886
20	.0000072	.0000112	.0000171	.0000258	.0000385	.0000568	.0000830	.0001200
21	.0000007	.0000011	.0000018	.0000028	.0000043	.0000066	.0000100	.0000150
22		.0000001	.0000001	.0000002	.0000003	.0000005	.0000008	.0000012

	.49	.50
1	.9999848	.9999999
2	.9999957	.9999971
3	.9999518	.9999670
4	.9995565	.9997559
5	.9982381	.9987203
6	.9936594	.9946890
7	.9781328	.9826532
8	.9433039	.9534302
9	.8876178	.8949802
10	.7692085	.7975636
11	.5850553	.6611603
12	.4013734	.5000000
13	.2641104	.3388197
14	.1702600	.2024364
15	.0885196	.1050190
16	.0379398	.0465698
17	.0136417	.0173448
18	.0040289	.0053110
19	.0009504	.0012997
20	.0001720	.0002441
21	.0000224	.0000330
22	.0000019	.0000029
23	.0000001	.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 24

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.2143219	.3842197	.5185820	.6245868	.7080110	.7734999	.8247771	.8640214
2	.0238544	.0826130	.1612422	.2491735	.3391827	.4265209	.5082455	.5827096
3	.0017294	.0118277	.0341468	.0692880	.1159446	.1718236	.2342585	.3005978
4	.0000905	.0012340	.0053210	.0143230	.0297025	.0526036	.0830255	.1207004
5	.0000036	.0000990	.0006406	.0022994	.0059746	.0126522	.0232641	.0385734
6	.0000001	.0000063	.0000615	.0002954	.0009624	.0024518	.0052714	.0100074
7		.0000003	.0000048	.0000310	.0001270	.0003901	.0009828	.0021415
8			.0000003	.0000027	.0000139	.0000517	.0001527	.0003826
9				.0000002	.0000013	.0000058	.0000200	.0000576
10					.0000001	.0000005	.0000022	.0000074
11							.0000002	.0000003
12								.0000000

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.8960096	.9202336	.9389957	.9534860	.9646441	.9732106	.9797673	.9847699
2	.6491751	.7075230	.7580393	.8012582	.8378505	.8685451	.8940750	.9151466
3	.3684348	.4357263	.5008371	.5625373	.6199695	.6726015	.7201724	.7626303
4	.1648210	.2142632	.2677176	.3238165	.3812187	.4386043	.4951210	.5496109
5	.0590984	.0850749	.1164518	.1529140	.1939228	.2387667	.2866175	.3365835
6	.0172741	.0276583	.0416687	.0596945	.0819758	.1085879	.1394386	.1742769
7	.0041753	.0074561	.0123997	.0194406	.0290047	.0414001	.0571915	.0763777
8	.0008440	.0016841	.0030975	.0053256	.0086513	.0133885	.0198693	.0284271
9	.0001439	.0003213	.0006544	.0012355	.0021885	.0036708	.0058735	.0090185
10	.0000208	.0000521	.0001175	.0002439	.0004717	.0008584	.0014826	.0024463
11	.0000026	.0000072	.0000180	.0000411	.0000869	.0001717	.0003204	.0005685
12	.0000003	.0000008	.0000024	.0000059	.0000137	.0000294	.0000593	.0001133
13		.0000001	.0000003	.0000007	.0000018	.0000043	.0000094	.0000193
14				.0000001	.0000002	.0000005	.0000013	.0000028
15						.0000001	.0000001	.0000004

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9885745	.9914585	.9936373	.9952776	.9965082	.9974200	.9981130	.9986211
2	.9324108	.9464596	.9578178	.9669434	.9742314	.9800176	.9845852	.9881707
3	.8001214	.8328647	.8611934	.8854826	.9061319	.9235452	.9381165	.9502190
4	.6014217	.6500046	.6949835	.7361378	.7733010	.8067392	.8363279	.8623310
5	.3877597	.4392695	.4902992	.5401227	.5881180	.6337765	.6767048	.7166219
6	.2127112	.2542338	.2982497	.3441076	.3911294	.4386390	.4859863	.5325683
7	.0991758	.1256114	.1555957	.1889289	.2253099	.2643496	.3055881	.3485148
8	.0393792	.0530092	.0695504	.0891713	.1119650	.1379418	.1670262	.1990577
9	.0133533	.0191430	.0266605	.0361750	.0479394	.0621782	.0790754	.0987643
10	.0038766	.0059269	.0087750	.0126211	.0176026	.0241885	.0323714	.0424590
11	.0009651	.0015752	.0024820	.0037804	.0056182	.0081159	.0114456	.0157882
12	.0002062	.0003595	.0006033	.0009780	.0015366	.0023463	.0034903	.0050688
13	.0000378	.0000704	.0001258	.0002168	.0003611	.0005833	.0009160	.0014016
14	.0000059	.0000118	.0000225	.0000412	.0000727	.0001243	.0002062	.0003327
15	.0000008	.0000017	.0000034	.0000067	.0000125	.0000226	.0000396	.0000674
16	.0000001	.0000002	.0000004	.0000009	.0000018	.0000035	.0000065	.0000116
17				.0000001	.0000002	.0000005	.0000009	.0000017
18							.0000001	.0000002

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9989966	.9992730	.9994755	.9996233	.9997307	.9998084	.9998644	.9999045
2	.9909695	.9931422	.9948196	.9961076	.9970910	.9978379	.9984010	.9988253
3	.9601988	.9683706	.9750162	.9803844	.9846920	.9881259	.9908455	.9929854
4	.8849816	.9045448	.9213029	.9355443	.9475530	.9576025	.9659497	.9728321
5	.7533516	.7868119	.8170035	.8439956	.8679135	.8889248	.9072280	.9230414
6	.5778448	.6213496	.6626974	.7015866	.7377982	.7711916	.8016992	.8293178
7	.3925877	.4372541	.4819691	.5263126	.5695035	.6114109	.6515628	.6896512
8	.2337958	.2709284	.3100827	.3508386	.3927432	.4353260	.4781133	.5206429
9	.1213183	.1467460	.1749870	.2059114	.2393228	.2749630	.3125193	.3516347
10	.0546649	.0691787	.0861570	.1057149	.1279190	.1527816	.1802575	.2102421
11	.0213382	.0282986	.0368746	.0472669	.0596645	.0742365	.0911245	.1104356
12	.0071997	.0100181	.0136756	.0183381	.0241927	.0313937	.0401570	.0506585
13	.0020940	.0030599	.0043801	.0061505	.0084824	.0115023	.0153515	.0201038
14	.0005231	.0008032	.0012066	.0017755	.0025629	.0036333	.0050640	.0069460
15	.0001117	.0001803	.0002843	.0004387	.0006631	.0009835	.0014325	.0020513
16	.0000202	.0000343	.0000569	.0000921	.0001458	.0002264	.0003446	.0005157
17	.0000031	.0000055	.0000096	.0000163	.0000270	.0000439	.0000699	.0001093
18	.0000004	.0000007	.0000013	.0000024	.0000041	.0000071	.0000118	.0000192
19		.0000001	.0000002	.0000003	.0000005	.0000009	.0000016	.0000028
20					.0000001	.0000001	.0000002	.0000003

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999330	.9999533	.9999676	.9999777	.9999847	.9999896	.9999930	.9999953
2	.9991416	.9993763	.9995495	.9996766	.9997693	.9998365	.9998848	.9999194
3	.9946584	.9959578	.9969605	.9977292	.9983145	.9987573	.9990900	.9993382
4	.9784656	.9830435	.9867371	.9896958	.9920488	.9939068	.9953632	.9964966
5	.9365938	.9481163	.9578364	.9659723	.9727297	.9782991	.9828542	.9865809
6	.8541001	.8761450	.8955886	.9125943	.9273451	.9400352	.9508630	.9600291
7	.7254345	.7587174	.7894482	.8175149	.8429393	.8657702	.8860963	.9040385
8	.5624765	.6032103	.6424845	.6799892	.7154692	.7487258	.7796168	.8080548
9	.3919178	.4329553	.4743241	.5156031	.5563846	.5962050	.6349530	.6720779
10	.2425728	.2770315	.3133501	.3512170	.3902857	.4301845	.4705264	.5109198
11	.1332359	.1565450	.1833326	.2125162	.2439605	.2774793	.3128307	.3497619
12	.0630694	.0775483	.0942298	.1132190	.1345861	.1583603	.1845264	.2130218
13	.0261635	.0334618	.0422531	.0527038	.0649973	.0792678	.0956544	.1142651
14	.0093842	.0124976	.0164185	.0212915	.0272716	.0345207	.0432053	.0534117
15	.0028907	.0040120	.0054885	.0074059	.0098630	.0129720	.0168580	.0216581
16	.0007585	.0010978	.0015642	.0021987	.0030469	.0041671	.0056279	.0075098
17	.0001678	.0002534	.0003765	.0005511	.0007952	.0011316	.0015893	.0022041

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 24

c	.33	.34	.35	.36	.37	.38	.39	.40
18	.0000309	.0000486	.0000754	.0001150	.0001728	.0002560	.0003742	.0005396
19	.0000046	.0000075	.0000123	.0000196	.0000307	.0000474	.0000720	.0001081
20	.0000006	.0000010	.0000018	.0000031	.0000053	.0000090	.0000150	.0000248
21	.0000001	.0000001	.0000002	.0000003	.0000005	.0000008	.0000013	.0000021
22						.0000001	.0000001	.0000002

c	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999968	.9999979	.9999986	.9999991	.9999994	.9999995	.9999998	.9999998
2	.9999445	.9999614	.9999736	.9999820	.9999879	.9999919	.9999946	.9999965
3	.9995221	.9996574	.9997563	.9998279	.9998794	.9999162	.9999422	.9999605
4	.9973770	.9980433	.9985510	.9989307	.9992206	.9994433	.9996016	.9997173
5	.9885279	.9919067	.9944776	.9964138	.9978330	.9988753	.9995357	.9998386
6	.9577239	.9741317	.9859484	.9937607	.9972658	.9989015	.9923902	.9941865
7	.9147426	.9333720	.9651012	.9835790	.9706851	.9765928	.9814680	
8	.8540037	.8574745	.8781518	.9127064	.9401037	.9405699	.9512688	
9	.7073936	.7406849	.7727810	.8038960	.8513661	.8724665	.8920378	
10	.5589787	.5901358	.6208361	.6505747	.7008733	.7342995	.7656673	.7948382
11	.3879362	.4270294	.4666541	.5064662	.5460853	.5851488	.6233115	.6602542
12	.2437352	.2765068	.3111307	.3473527	.3849012	.4234433	.4626424	.5021415
13	.1351771	.1584315	.1840289	.2119260	.2420335	.2742158	.3082869	.3440280
14	.0655414	.0765058	.0895200	.1047009	.1221334	.1418733	.1639306	.2093056
15	.0275203	.0325998	.0389593	.0468613	.0564690	.0681350	.0939020	.1115943
16	.0099055	.0129211	.0166751	.0212906	.0269319	.0337330	.0418553	.0514642
17	.0030202	.0040907	.0054793	.0072603	.0095212	.0123612	.0158933	.0202428
18	.0007686	.0010816	.0015046	.0020697	.0028164	.0037939	.0050590	.0066806
19	.0001601	.0002342	.0003385	.0004837	.0006836	.0009558	.0013326	.0018121
20	.0000265	.0000404	.0000607	.0000902	.0001324	.0001923	.0002763	.0003929
21	.0000034	.0000053	.0000084	.0000129	.0000197	.0000297	.0000443	.0000654
22	.0000003	.0000005	.0000008	.0000013	.0000021	.0000033	.0000051	.0000079
23			.0000001	.0000001	.0000001	.0000002	.0000004	.0000006

c	.49	.50
1	.9999999	.9999999
2	.9999977	.9999985
3	.9999733	.9999821
4	.9999012	.9999514
5	.9997131	.9998281
6	.9955979	.9966946
7	.9854468	.9884721
8	.9603700	.9680427
9	.9091715	.9242052
10	.8217214	.8462719
11	.6956904	.7293719
12	.5415776	.5805901
13	.3811693	.4194099
14	.2389057	.2706281
15	.1315124	.1537281
16	.0627239	.0757948
17	.0255478	.0319573
18	.0087392	.0113279
19	.0024589	.0033054
20	.0005534	.0007719
21	.0000957	.0001386
22	.0000119	.0000179
23	.0000010	.0000015
24		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 25$$

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.2221786	.3965353	.5330253	.6396033	.7226104	.7870899	.8370427	.8756357
2	.0257591	.0866451	.1719624	.2641900	.3576241	.4473396	.5304027	.6052786
3	.0019507	.0133434	.0379596	.0764834	.1271065	.1871054	.2534376	.3231668
4	.0001069	.0014459	.0061858	.0165216	.0340906	.0597568	.0936118	.1350922
5	.0000045	.0001217	.0007810	.0027803	.0071649	.0150493	.0274474	.0451435
6	.0000002	.0000082	.0000789	.0003756	.0012130	.0030639	.0065309	.0122927
7		.0000004	.0000065	.0000416	.0001608	.0005138	.0012830	.0027707
8			.0000004	.0000038	.0000196	.0000720	.0002108	.0005333
9				.0000003	.0000019	.0000085	.0000293	.0000836
10					.0000002	.0000009	.0000035	.0000114
11						.0000001	.0000003	.0000013
12								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9053687	.9282102	.9457062	.9590676	.9692404	.9769611	.9828022	.9872067
2	.6713902	.7287941	.7779445	.8195255	.8543336	.8831983	.9069295	.9263853
3	.3937015	.4629059	.5291294	.5911838	.6482940	.7000336	.7462579	.7870396
4	.1831462	.2364086	.2933607	.3524630	.4122563	.4714327	.5288787	.5836553
5	.0686135	.0979936	.1330910	.1734223	.2182712	.2667552	.3178930	.3706679
6	.0210383	.0333999	.0498949	.0708809	.0965289	.1268129	.1615154	.2002460
7	.0053548	.0094764	.0156193	.0242711	.0358909	.0508752	.0695286	.0920416
8	.0011439	.0022613	.0041207	.0070194	.0112972	.0173214	.0254676	.0360992
9	.0002069	.0004575	.0009231	.0017263	.0030206	.0050313	.0079729	.0121239
10	.0000319	.0000790	.0001766	.0003629	.0006949	.0012522	.0021413	.0034978
11	.0000042	.0000117	.0000290	.0000655	.0001369	.0002678	.0004947	.0008689
12	.0000005	.0000015	.0000041	.0000102	.0000232	.0000493	.0000905	.0001861
13		.0000002	.0000005	.0000014	.0000034	.0000078	.0000169	.0000344
14			.0000001	.0000002	.0000004	.0000011	.0000025	.0000055
15						.0000001	.0000003	.0000007
16								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9905169	.9929960	.9948462	.9962221	.9972415	.9979938	.9985470	.9989521
2	.9419586	.9545594	.9646235	.9726103	.9789005	.9838479	.9876966	.9906788
3	.8226106	.8533118	.8795520	.9017748	.9204328	.9356691	.9480043	.9579272
4	.6352006	.6829194	.7265634	.7660067	.8012507	.8324365	.8597393	.8834241
5	.4240822	.4772018	.5291892	.5793257	.6270232	.6718283	.7134181	.7519
6	.2424695	.2875702	.3347391	.3833106	.4324970	.4815698	.5298516	.5767412
7	.1184769	.1487634	.1826999	.2199647	.2601320	.3026932	.3470797	.3926076
8	.0495446	.0660776	.0858990	.1091228	.1357574	.1657515	.1988955	.2349274
9	.0177777	.0252489	.0340096	.0467742	.0613048	.0788462	.0993041	.1228340
10	.0054877	.0083058	.0121733	.0173319	.0240365	.0325462	.0431133	.0559723
11	.0014601	.0023585	.0036777	.0055549	.0081517	.0116519	.0162585	.0221892
12	.0003352	.0005783	.0009602	.0015401	.0023937	.0036156	.0053200	.0076414
13	.0000664	.0001224	.0002166	.0003690	.0006080	.0009712	.0015081	.0022818
14	.0000113	.0000223	.0000421	.0000763	.0001333	.0002253	.0003595	.0005892
15	.0000017	.0000035	.0000070	.0000136	.0000251	.0000450	.0000779	.0001311
16	.0000002	.0000005	.0000010	.0000021	.0000041	.0000077	.0000141	.0000250
17		.0000001	.0000001	.0000003	.0000006	.0000011	.0000022	.0000041
18					.0000001	.0000001	.0000003	.0000006
19								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9992475	.9994620	.9996171	.9997288	.9998088	.9998659	.9999064	.9999350
2	.9929763	.9947362	.9960767	.9970920	.9978565	.9984290	.9988552	.9991707
3	.9678915	.9748112	.9803632	.9847869	.9882877	.9910395	.9931880	.9946542
4	.9037859	.9211395	.9358055	.9480995	.9583233	.9667595	.9736674	.9792812
5	.7862591	.8174225	.8451643	.8696292	.8910089	.9095281	.9254317	.9389744
6	.6217215	.6643698	.7043601	.7414612	.7755316	.8065116	.8344131	.8593093
7	.4389019	.4851189	.5307657	.5753173	.6183089	.6593451	.6981051	.7343445
8	.2734938	.3141731	.3564920	.3999433	.4440037	.4881515	.5318827	.5747256
9	.1494377	.1790335	.2114628	.2464910	.2838148	.3230719	.3638535	.4057173
10	.0713283	.0893462	.1101411	.1337699	.1602261	.1894360	.2212507	.2554877
11	.0296699	.0389274	.0501808	.0636323	.0794583	.0978009	.1187557	.1423737
12	.0107343	.0147710	.0199393	.0264382	.0344724	.0442465	.0559575	.0697071
13	.0033704	.0048691	.0066899	.0089630	.0118355	.0154697	.0200415	.0256357
14	.0009158	.0013900	.0020034	.0030005	.0042795	.0059940	.0082531	.0111021
15	.0002145	.0003422	.0005333	.0008130	.0012141	.0017784	.0025582	.0036176
16	.0000431	.0000723	.0001183	.0001891	.0002959	.0004535	.0006820	.0010071
17	.0000074	.0000130	.0000223	.0000375	.0000615	.0000986	.0001551	.0002393
18	.0000011	.0000020	.0000036	.0000063	.0000108	.0000181	.0000293	.0000480
19	.0000001	.0000002	.0000005	.0000009	.0000016	.0000028	.0000048	.0000080
20			.0000001	.0000001	.0000002	.0000003	.0000006	.0000011
21							.0000001	.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999551	.9999692	.9999790	.9999857	.9999904	.9999935	.9999957	.9999972
2	.9994027	.9995725	.9996959	.9997850	.9998490	.9998947	.9999270	.9999498
3	.9961378	.9971201	.9978667	.9984303	.9988528	.9991674	.9994000	.9995707
4	.9838092	.9874344	.9903153	.9925878	.9943671	.9957500	.9968167	.9976332
5	.9504115	.9599916	.9679516	.9745127	.9798778	.9842300	.9877387	.9905292
6	.8813230	.9006153	.9173753	.9318104	.9441374	.9545755	.9633400	.9706378
7	.7678942	.7986560	.8265973	.8517435	.8741694	.8939909	.9113556	.9264347
8	.6162326	.6560895	.6937218	.7294905	.7636331	.7932027	.8211438	.8464483
9	.4482021	.4908420	.5331803	.5747821	.6152459	.6546125	.6913719	.7264685
10	.2918566	.3300456	.3696910	.4103960	.4517423	.4933027	.5346528	.5753830
11	.1606471	.1975104	.2288308	.2624485	.2981000	.3355073	.3743369	.4142350
12	.0058944	.1044072	.1254158	.1489660	.1750546	.2036255	.2345602	.2677178
13	.0383424	.0484512	.0604449	.0744932	.0907452	.1093229	.1303145	.1537678

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 25

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
14	.0149213	.0196254	.0254606	.0326022	.0412301	.0515246	.0636604	.0778011
15	.0050335	.0068971	.0093140	.0124047	.0163042	.0211605	.0271334	.0343915
16	.0014621	.0020886	.0029302	.0040733	.0055688	.0075130	.0100076	.0131691
17	.0003627	.0005405	.0007925	.0011443	.0016283	.0022851	.0031643	.0043264
18	.0000760	.0001182	.0001868	.0002720	.0004031	.0005807	.0008481	.0012054
19	.0000133	.0000216	.0000344	.0000540	.0000833	.0001267	.0001899	.0002807
20	.0000019	.0000032	.0000054	.0000088	.0000141	.0000223	.0000348	.0000536
21	.0000002	.0000004	.0000007	.0000011	.0000019	.0000031	.0000051	.0000082
22			.0000001	.0000001	.0000002	.0000003	.0000006	.0000010
23								.0000001

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999981	.9999988	.9999992	.9999995	.9999997	.9999998	.9999999	.9999999
2	.9999657	.9999767	.9999843	.9999895	.9999931	.9999954	.9999970	.9999981
3	.9996951	.9997851	.9998497	.9998957	.9999282	.9999510	.9999669	.9999778
4	.9982536	.9987212	.9990710	.9993305	.9995215	.9996608	.9997617	.9998341
5	.9927440	.9944841	.9958400	.9968879	.9976910	.9983013	.9987611	.9991024
6	.9766635	.9815972	.9856028	.9888274	.9914009	.9934372	.9950342	.9962755
7	.9394149	.9504911	.9598603	.9677164	.9742462	.9796255	.9840176	.9875713
8	.8691567	.8893514	.9071493	.9226942	.9361492	.9476905	.9575006	.9657629
9	.7593037	.7897359	.8176795	.8431012	.8660162	.8864818	.9045916	.9204687
10	.6151088	.6534803	.6901893	.7249752	.7576208	.7879937	.8159663	.8414940
11	.4547836	.4956116	.5363063	.5764739	.6157399	.6537581	.6902187	.7240545
12	.3028576	.3397226	.3780057	.4173654	.4574341	.4978270	.5381569	.5780356
13	.1796859	.2080231	.2386827	.2715160	.3063240	.3428601	.3808350	.4199229
14	.0940920	.1126546	.1335793	.1569199	.1826884	.2108506	.2413232	.2739728
15	.0431088	.0534604	.0656177	.0797430	.0959830	.1144627	.1352792	.1584957
16	.0171275	.0220262	.0280203	.0352744	.0439597	.0542500	.0663173	.0803266
17	.0058432	.0077995	.0102934	.0134372	.0173569	.0221923	.0280954	.0352291
18	.0016018	.0023454	.0032136	.0043536	.0058338	.0077349	.0101511	.0131904
19	.0004096	.0006201	.0008309	.0011816	.0016435	.0022613	.0030787	.0041490
20	.0000913	.0001218	.0001802	.0002633	.0003804	.0005435	.0007680	.0010741
21	.0000179	.0000201	.0000309	.0000469	.0000704	.0001045	.0001533	.0002226
22	.0000016	.0000025	.0000041	.0000064	.0000100	.0000154	.0000235	.0000335
23	.0000001	.0000002	.0000004	.0000006	.0000010	.0000016	.0000026	.0000041
24					.0000001	.0000001	.0000002	.0000003

c \ p	.49	.50
1	1.0000000	1.0000000
2	.9999988	.9999992
3	.9999858	.9999903
4	.9998855	.9999217
5	.9993585	.9995447
6	.9972317	.9979613
7	.9904204	.9926834
8	.9726577	.9783574
9	.9342588	.9461239
10	.8645720	.8852385
11	.7574456	.7878219
12	.6170928	.6549810
13	.4597693	.5000000
14	.3086154	.3450190
15	.1841356	.2121781
16	.0964303	.1147615
17	.0437641	.0538761
18	.0169754	.0216426
19	.0055362	.0073166
20	.0014971	.0020387
21	.0003200	.0004553
22	.0000530	.0000783
23	.0000063	.0000097
24	.0000005	.0000008

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 26$$

c \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.2299569	.4086046	.5470345	.6540192	.7364799	.7998645	.8484497	.8855849
2	.0277233	.0948029	.1827943	.2792066	.3758735	.4677247	.5518675	.6269071
3	.0021888	.0147515	.0419797	.0839917	.1386324	.2027195	.2728251	.3457357
4	.0001254	.0016818	.0071390	.0189200	.0387414	.0673977	.1047996	.1501382
5	.0000055	.0001482	.0009431	.0033300	.0085112	.0177317	.0320789	.0523394
6	.0000002	.0000104	.0001000	.0004718	.0015106	.0037830	.0079950	.0149208
7		.0000006	.0000087	.0000550	.0002210	.0006668	.0016503	.0035125
8			.0000006	.0000054	.0000270	.0000985	.0002859	.0007031
9				.0000004	.0000028	.0000123	.0000420	.0001108
10					.0000002	.0000013	.0000053	.0000172
11						.0000001	.0000006	.0000021
12							.0000001	.0000002

c \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9138855	.9353892	.9516785	.9639795	.9732391	.9801866	.9853819	.9892536
2	.6924483	.7487357	.7963983	.8362706	.8692715	.8963251	.9183104	.9360336
3	.4106934	.4894948	.5564990	.6158848	.6750792	.7256766	.7703587	.8093191
4	.2020962	.2590584	.3192953	.3811095	.4429412	.5034368	.5614856	.6162304
5	.0789214	.1118351	.1507207	.1940072	.2434893	.2954101	.3495409	.4047523
6	.0253201	.0398593	.0590464	.0831958	.1123554	.1464046	.1849720	.2275135
7	.0067658	.0118687	.0193896	.0298643	.0437739	.0615065	.0833266	.1093943
8	.0015228	.0029828	.0053856	.0090896	.0144944	.0220109	.0320768	.0450500
9	.0002913	.0006379	.0012748	.0023615	.0041036	.0067519	.0105971	.0159599
10	.0000477	.0001168	.0002587	.0005265	.0009983	.0017812	.0030160	.0048780
11	.0000067	.0000184	.0000452	.0001012	.0002094	.0004056	.0007417	.0012896
12	.0000008	.0000025	.0000068	.0000168	.0000380	.0000799	.0001579	.0002954
13	.0000001	.0000003	.0000009	.0000024	.0000060	.0000136	.0000291	.0000586
14			.0000001	.0000003	.0000008	.0000020	.0000047	.0000101
15					.0000001	.0000003	.0000006	.0000015
16							.0000001	.0000002

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9931290	.9942567	.9950254	.9969777	.9978208	.9984352	.9988812	.9992036
2	.9502135	.9614780	.9703658	.9773326	.9827592	.9869600	.9901922	.9926644
3	.8428997	.8715363	.8957156	.9159419	.9327129	.9465025	.9577495	.9668517
4	.6670603	.7135900	.7556312	.7931603	.8262853	.8550137	.8803242	.9016409
5	.4599723	.5142310	.5666903	.6166619	.6636127	.7071621	.7470720	.7832318
6	.2733436	.3216793	.3716846	.4225136	.4733475	.5234262	.5720719	.6187054
7	.1395556	.1737433	.2115674	.2526339	.2963287	.3420460	.3891172	.4368605
8	.0612631	.0809611	.1042912	.1312912	.1618840	.1958787	.2329778	.2727899
9	.0231781	.0325899	.0445166	.0592440	.0770051	.0979654	.1222101	.1497369
10	.0075770	.0113537	.0164742	.0232203	.0318797	.0427322	.0560372	.0720192
11	.0021448	.0034290	.0052918	.0079103	.0114875	.0162486	.0224351	.0302971
12	.0005264	.0008988	.0014765	.0021430	.0030029	.0041529	.0056359	.0075329
13	.0001121	.0002045	.0003578	.0005632	.0008830	.0013529	.0020348	.0029681
14	.0000207	.0000403	.0000753	.0001348	.0002330	.0003894	.0006313	.0009954
15	.0000033	.0000069	.0000137	.0000261	.0000479	.0000847	.0001450	.0002410
16	.0000005	.0000010	.0000022	.0000044	.0000085	.0000159	.0000288	.0000505
17	.0000001	.0000001	.0000003	.0000006	.0000013	.0000026	.0000049	.0000091
18				.0000001	.0000002	.0000004	.0000007	.0000014
19							.0000001	.0000002

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9994356	.9996019	.9997205	.9998047	.9998643	.9999061	.9999354	.9999558
2	.9945441	.9959649	.9970326	.9978303	.9984227	.9988601	.9991811	.9994153
3	.9741627	.9799917	.9846058	.9882323	.9910627	.9932563	.9949448	.9962355
4	.9198123	.9350941	.9478361	.9583720	.9670130	.9740435	.9797187	.9842645
5	.8156408	.8443889	.8696374	.8916009	.9105301	.9266975	.9403848	.9518726
6	.6628559	.7041635	.7423772	.7773482	.8090200	.8374165	.8626289	.8848022
7	.4846068	.5317241	.5776363	.6218376	.6639035	.7034950	.7403606	.7743333
8	.3148458	.3586190	.4035459	.4490480	.4945522	.5395095	.5834116	.6258037
9	.1804517	.2141697	.2506207	.2894577	.3302696	.3725957	.4159425	.4598000
10	.0908556	.1126649	.1374979	.1653316	.1960668	.2295268	.2654630	.3035612
11	.0400845	.0520363	.0663701	.0832709	.1028810	.1252908	.1505316	.1785702
12	.0154682	.0210517	.0281045	.0368525	.0475183	.0603126	.0754249	.0930148
13	.0052114	.0074436	.0104133	.0142881	.0192522	.0255028	.0332454	.0426882
14	.0015295	.0022945	.0033666	.0048380	.0068187	.0094367	.0128375	.0171832
15	.0003898	.0006147	.0009464	.0014255	.0021030	.0030431	.0043237	.0060382
16	.0000859	.0001425	.0002303	.0003638	.0005631	.0008510	.0012636	.0018425
17	.0000163	.0000284	.0000482	.0000799	.0001294	.0002051	.0003184	.0004850
18	.0000026	.0000048	.0000086	.0000150	.0000255	.0000423	.0000686	.0001093
19	.0000004	.0000007	.0000013	.0000024	.0000042	.0000074	.0000125	.0000208
20		.0000001	.0000002	.0000003	.0000006	.0000011	.0000019	.0000033
21					.0000001	.0000001	.0000002	.0000004

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999699	.9999797	.9999863	.9999909	.9999939	.9999960	.9999974	.9999983
2	.9995850	.9997074	.9997950	.9998573	.9999013	.9999322	.9999538	.9999687
3	.9978153	.9979539	.9985069	.9989180	.9992314	.9994438	.9996055	.9997223
4	.9878777	.9907275	.9939583	.9946911	.9960268	.9970486	.9978242	.9984088
5	.9614327	.9693221	.9757709	.9810198	.9852389	.9886076	.9912754	.9933708
6	.9041228	.9208032	.9350770	.9471833	.9573613	.9658442	.9728532	.9785943
7	.8053257	.8333221	.8583696	.8805676	.9000576	.9170130	.9316295	.9441160
8	.6662943	.7045621	.7403582	.7735067	.8039016	.8315022	.8563965	.8784489
9	.5036588	.5470262	.5894398	.6304800	.6697792	.7070288	.7419829	.7744604
10	.3434507	.3847164	.4269123	.4695750	.5122387	.5544484	.5957732	.6358172
11	.2093062	.2425724	.2781370	.3157096	.3549482	.3954696	.4368601	.4786082
12	.1132028	.1360623	.1616130	.1898197	.2205817	.2537406	.2890780	.3263807
13	.0540946	.0674762	.0831847	.1013034	.1219397	.1451579	.1709734	.1993478

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 25

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
14	.0226503	.0294262	.0377051	.0476829	.0595507	.0734880	.0896555	.1081877
15	.0083965	.0112247	.0149653	.0196758	.0255268	.0326989	.0413790	.0517553
16	.0026407	.0037215	.0051697	.0070726	.0095409	.0126990	.0166867	.0216501
17	.0007255	.0010668	.0015435	.0021987	.0030862	.0042717	.0058332	.0078635
18	.0001706	.0002618	.0003949	.0005860	.0008564	.0012334	.0017514	.0024538
19	.0000340	.0000544	.0000856	.0001325	.0002016	.0003023	.0004464	.0006506
20	.0000057	.0000095	.0000155	.0000250	.0000397	.0000620	.0000953	.0001444
21	.0000008	.0000015	.0000023	.0000039	.0000064	.0000104	.0000167	.0000263
22	.0000001	.0000002	.0000003	.0000005	.0000008	.0000014	.0000023	.0000038
23					.0000001	.0000001	.0000003	.0000004

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999989	.9999993	.9999996	.9999997	.9999998	.9999999	.9999999	1.0000000
2	.9999790	.9999860	.9999907	.9999939	.9999960	.9999974	.9999984	.9999990
3	.9998060	.9998656	.9999075	.9999370	.9999574	.9999715	.9999810	.9999875
4	.9988446	.9991681	.9994058	.9995792	.9997045	.9997943	.9998581	.9999030
5	.9950029	.9962637	.9972893	.9979626	.9985147	.9989267	.9992314	.9994546
6	.9832565	.9870097	.9900048	.9923740	.9942315	.9956747	.9967858	.9976334
7	.9546868	.9635557	.9709296	.9770053	.9819658	.9859789	.9891954	.9917495
8	.8979625	.9150301	.9298150	.9425040	.9532929	.9623806	.9699636	.9762310
9	.8043434	.8315744	.8561515	.8781221	.8975761	.9146378	.9294588	.9422099
10	.6742287	.7107076	.7456101	.7769507	.8064032	.8332982	.8576202	.8794018
11	.5305169	.5619165	.6024760	.6418145	.6795809	.7155065	.7493201	.7808415
12	.3651473	.4051960	.4460750	.4873732	.5286717	.5695558	.6096259	.6485087
13	.2301963	.2633369	.2985916	.3356897	.3743235	.4141453	.4547763	.4959170
14	.1301855	.1527094	.1778730	.2075422	.2303244	.2715750	.3066938	.3440388
15	.0640119	.0781219	.0948412	.1137009	.1350004	.1588011	.1851199	.2139247
16	.0277798	.0352285	.0441872	.0548406	.0673702	.0819474	.0987294	.1170478
17	.0104697	.0137747	.0179160	.0230456	.0293282	.0369380	.0460593	.0568759
18	.0033939	.0046361	.0062579	.0083504	.0110102	.0143853	.0185849	.0237690
19	.0009353	.0013274	.0018606	.0025773	.0035291	.0047792	.0064027	.0084889
20	.0002159	.0003185	.0004639	.0006674	.0009488	.0013337	.0018540	.0025500
21	.0000409	.0000628	.0000951	.0001421	.0002099	.0003064	.0004422	.0006313
22	.0000063	.0000099	.0000156	.0000242	.0000372	.0000564	.0000845	.0001253
23	.0000007	.0000013	.0000020	.0000033	.0000051	.0000080	.0000124	.0000192
24	.0000001	.0000001	.0000002	.0000003	.0000005	.0000008	.0000013	.0000021
25						.0000001	.0000001	.0000002

c \ p	.49	.50
1	1.0000000	1.0000000
2	.9999994	.9999996
3	.9999919	.9999948
4	.9999344	.9999560
5	.9996167	.9997332
6	.9982738	.9987530
7	.9937579	.9953223
8	.9813614	.9855204
9	.9530742	.9622407
10	.8987185	.9156812
11	.8099375	.8365302
12	.6858657	.7214015
13	.5368578	.5774905
14	.3826808	.4225095
15	.2451307	.2785985
16	.1394059	.1634698
17	.0695705	.0843188
18	.0301019	.0377593
19	.0111414	.0144796
20	.0034712	.0046777
21	.0008918	.0012470
22	.0001838	.0002668
23	.0000292	.0000440
24	.0000033	.0000052
25	.0000002	.0000004

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 27

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.2376573	.4204325	.5606235	.6678584	.7496559	.8110726	.8590583	.8947381
2	.0297456	.1010749	.1937215	.2941991	.3939038	.4876530	.5726283	.6476014
3	.0024441	.0163525	.0462042	.0910003	.1504944	.2186198	.2933581	.3682294
4	.0001460	.0019432	.0081042	.0215229	.0437359	.0755170	.1165614	.1657860
5	.0000067	.0001788	.0011290	.0039536	.0100227	.0207117	.0371493	.0601633
6	.0000002	.0000132	.0001253	.0005861	.0018606	.0046129	.0096809	.0179163
7		.0000008	.0000114	.0000716	.0002654	.0008537	.0020945	.0044436
8			.0000009	.0000073	.0000367	.0001326	.0003814	.0009295
9			.0000001	.0000006	.0000040	.0000175	.0000591	.0001655
10					.0000004	.0000020	.0000078	.0000253
11						.0000002	.0000009	.0000033
12							.0000001	.0000004

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9216358	.9418503	.9569939	.9683020	.9767180	.9829604	.9875746	.9909731
2	.7123776	.7674011	.8134791	.8515956	.8827073	.9080657	.9283711	.9445463
3	.4433314	.5154189	.5828880	.6447071	.7003242	.7495674	.7925514	.8295934
4	.2215900	.2821020	.3453077	.4096065	.4731191	.5345504	.5928166	.6471246
5	.0900071	.1265574	.1692639	.2172515	.2694180	.3245330	.3813326	.4385898
6	.0301442	.0470569	.0691306	.0963924	.1294038	.1672656	.2096574	.2558737
7	.0084356	.0146678	.0237518	.0362629	.0526895	.0733923	.0985734	.1282500
8	.0019947	.0038714	.0069260	.0115826	.0183007	.0275472	.0397642	.0553387
9	.0004021	.0008724	.0017270	.0031689	.0054454	.0088093	.0138190	.0206143
10	.0000696	.0001689	.0003705	.0007467	.0014019	.0024771	.0041532	.0066511
11	.0000104	.0000283	.0000687	.0001522	.0003120	.0005982	.0010828	.0018637
12	.0000013	.0000041	.0000110	.0000269	.0000603	.0001255	.0002455	.0004544
13	.0000002	.0000005	.0000015	.0000041	.0000101	.0000229	.0000484	.0000965
14		.0000001	.0000002	.0000006	.0000015	.0000036	.0000083	.0000179
15				.0000001	.0000002	.0000005	.0000012	.0000029
16						.0000001	.0000002	.0000004

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9934671	.9952905	.9966186	.9975821	.9982784	.9987795	.9991305	.9993947
2	.9573391	.9673782	.9752031	.9812616	.9859281	.9894845	.9921907	.9942338
3	.8611431	.8877258	.9098901	.9282200	.9433226	.9554031	.9652113	.9730468
4	.6969530	.7420204	.7822473	.8177167	.8486351	.8752972	.8980550	.9172015
5	.4951773	.5501156	.6025491	.6519616	.6977739	.7397334	.7776970	.8116500
6	.3050705	.3563146	.4087357	.4613433	.5133032	.5636481	.6123218	.6586217
7	.1623994	.2003718	.2420059	.2866098	.3336026	.3819492	.4311968	.4805033
8	.0745728	.0976619	.1244774	.1555897	.1901174	.2280355	.2688899	.3121668
9	.0296525	.0412967	.0558737	.0736534	.0948297	.1195063	.1476867	.1792965
10	.0102291	.0151762	.0210022	.0304251	.0413560	.0548835	.0712570	.0908715
11	.0030682	.0048555	.0074165	.0109723	.0157699	.0220750	.0301636	.0403104
12	.0008015	.0013542	.0022014	.0034565	.0052587	.0077739	.0111937	.0157323
13	.0001825	.0003294	.0005704	.0009512	.0015318	.0023957	.0036386	.0053836
14	.0000368	.0000699	.0001289	.0002285	.0003905	.0006454	.0010346	.0016129
15	.0000063	.0000129	.0000254	.0000479	.0000867	.0001517	.0002569	.0004221
16	.0000009	.0000021	.0000043	.0000087	.0000168	.0000310	.0000555	.0000962
17	.0000001	.0000003	.0000006	.0000014	.0000028	.0000055	.0000104	.0000190
18			.0000001	.0000002	.0000004	.0000008	.0000017	.0000032
19						.0000001	.0000002	.0000005
20								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9995767	.9997054	.9997960	.9998594	.9999036	.9999343	.9999554	.9999700
2	.9957669	.9969105	.9977533	.9983831	.9988408	.9991739	.9994149	.9995802
3	.9792580	.9843447	.9879611	.9904197	.9931071	.9940375	.9962581	.9972530
4	.9333099	.9467675	.9577639	.9667122	.9739874	.9798073	.9844388	.9880952
5	.8416837	.8679723	.8907511	.9102968	.9269101	.9409013	.9525703	.9622380
6	.7010581	.7406221	.7767375	.8093390	.8384579	.8642008	.8867332	.9062647
7	.5291691	.5765584	.6221163	.6653806	.7059873	.7436715	.7782630	.8096833
8	.3572061	.4036263	.4505503	.4974291	.5436641	.5887052	.6320650	.6733531
9	.2140502	.2517265	.2919105	.3341430	.3779115	.4226699	.4678579	.5129211
10	.1132546	.1390562	.1680411	.2000871	.2349856	.2724475	.3121117	.3535576
11	.0527773	.0677597	.0855746	.1062479	.1299049	.1565616	.1860604	.2183673
12	.0216223	.0291077	.0384362	.0498497	.0635735	.0798060	.0986180	.1200326
13	.0077756	.0109817	.0151899	.0206061	.0274493	.0359457	.0463211	.0587927
14	.0024500	.0036333	.0052692	.0074840	.0104244	.0142565	.0191640	.0253448
15	.0006748	.0010514	.0015999	.0023810	.0034706	.0049612	.0069630	.0096046
16	.0001619	.0002652	.0004237	.0006611	.0010090	.0015086	.0022122	.0031851
17	.0000337	.0000581	.0000974	.0001594	.0002549	.0003989	.0006114	.0009194
18	.0000061	.0000110	.0000193	.0000332	.0000556	.0000911	.0001461	.0002295
19	.0000009	.0000018	.0000033	.0000059	.0000104	.0000178	.0000299	.0000491
20	.0000001	.0000002	.0000005	.0000009	.0000016	.0000030	.0000053	.0000089
22			.0000001	.0000001	.0000002	.0000004	.0000001	.0000002
21							.0000008	.0000014

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999799	.9999866	.9999911	.9999942	.9999962	.9999975	.9999984	.9999990
2	.9997121	.9998000	.9998619	.9999054	.9999356	.9999565	.9999708	.9999806
3	.9979973	.9985501	.9989577	.9992561	.9994730	.9996294	.9997413	.9998209
4	.9909591	.9931845	.9949003	.9962128	.9972088	.9979588	.9985189	.9989339
5	.9701595	.9766000	.9817917	.9859414	.9893304	.9918152	.9938294	.9953858
6	.9230347	.9372996	.9493227	.9593644	.9676760	.9744943	.9800370	.9845049
7	.8379285	.8630657	.8852172	.9045492	.9212600	.9355689	.9477067	.9579073
8	.7121747	.7483405	.7816622	.8120486	.8394793	.8639963	.8856946	.9047121
9	.5573285	.6005984	.6422612	.6819696	.7194045	.7543287	.7865769	.8160534
10	.3963193	.4399017	.4837969	.5275008	.5705287	.6124290	.6527950	.6912745
11	.2535739	.2909014	.3302084	.3711011	.4131457	.4558015	.4988362	.5415398
12	.1449169	.1722757	.2023969	.2351401	.2703973	.3079576	.3467130	.3872677

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 27

x	.33	.34	.35	.36	.37	.38	.39	.40
13	.0715601	.0907955	.1106349	.1331693	.1584373	.1864193	.2170348	.2501370
14	.0330071	.0423638	.0536230	.0669863	.0826346	.1007226	.1213695	.1446518
15	.0130337	.0174132	.0229242	.0297584	.0381156	.0481987	.0603068	.0743385
16	.0045071	.0062739	.0085982	.0116098	.0154557	.0202990	.0263167	.0336970
17	.0013575	.0019701	.0028126	.0039533	.0054745	.0074741	.0100661	.0133813
18	.0003538	.0005355	.0007969	.0011666	.0016815	.0023879	.0033433	.0046177
19	.0000791	.0001249	.0001939	.0002957	.0004439	.0006561	.0009584	.0013719
20	.0000150	.0000247	.0000401	.0000637	.0000996	.0001533	.0002323	.0003469
21	.0000024	.0000041	.0000069	.0000115	.0000187	.0000300	.0000474	.0000736
22	.0000003	.0000006	.0000010	.0000017	.0000029	.0000048	.0000079	.0000124
23		.0000001	.0000001	.0000002	.0000004	.0000006	.0000011	.0000018
24						.0000001	.0000001	.0000002

x	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999993	.9999996	.9999997	.9999998	.9999999	.9999999	1.0000000	1.0000000
2	.9999972	.9999916	.9999945	.9999965	.9999977	.9999986	.9999991	.9999994
3	.9999770	.9999162	.9999433	.9999620	.9999748	.9999834	.9999892	.9999930
4	.9997388	.9994610	.9996216	.9997366	.9998183	.9998758	.9999159	.9999436
5	.9965780	.9974835	.9981652	.9986739	.9990501	.9993258	.9995259	.9996699
6	.9880725	.9909964	.9931113	.9948330	.9961589	.9971706	.9979382	.9985076
7	.9664004	.9734064	.9791319	.9837675	.9874854	.9904389	.9927629	.9945737
8	.9212195	.9354108	.9474943	.9576845	.9661957	.9732358	.9790028	.9836798
9	.8427273	.8666258	.8870268	.9064501	.9226486	.9365995	.9484960	.9585400
10	.7275758	.7614717	.7928009	.8214661	.8474310	.8707144	.8913843	.9095497
11	.5815388	.6244088	.6637656	.7012744	.7366559	.7696907	.8002911	.8281505
12	.4284488	.4710156	.5133274	.5553274	.5965849	.6366931	.6752822	.7120284
13	.2855203	.3229177	.3620094	.4024304	.4437802	.4856341	.5275556	.5691090
14	.1709958	.1991730	.2302954	.2638151	.2995240	.3371573	.3763986	.4168872
15	.0907331	.1095647	.1309322	.1549030	.1814962	.2106771	.2423536	.2763747
16	.0426350	.0533278	.0659684	.0807391	.0978038	.1173003	.1393329	.1639647
17	.0175669	.0227853	.0292126	.0370354	.0464471	.0576429	.0708144	.0861424
18	.0062950	.0084743	.0112709	.0148163	.0192582	.0247599	.0314981	.0396603
19	.0019433	.0027170	.0037515	.0051174	.0068996	.0091980	.0121284	.0158233
20	.0005109	.0007422	.0010645	.0015077	.0021100	.0029186	.0039919	.0054007
21	.0001127	.0001702	.0002537	.0003732	.0005424	.0007790	.0011058	.0015523
22	.0000205	.0000321	.0000498	.0000761	.0001145	.0001714	.0002527	.0003682
23	.0000030	.0000049	.0000078	.0000124	.0000195	.0000323	.0000463	.0000701
24	.0000003	.0000006	.0000009	.0000016	.0000026	.0000041	.0000065	.0000103
25			.0000001	.0000001	.0000002	.0000004	.0000007	.0000011
26								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	.9999997	.9999998
3	.9999955	.9999972
4	.9999625	.9999754
5	.9997724	.9998446
6	.9989318	.9992431
7	.9959707	.9970377
8	.9874357	.9904214
9	.9669349	.9738805
10	.9253528	.9389609
11	.8534402	.8761057
12	.7466609	.7789658
13	.6098717	.6494460
14	.4582276	.5000000
15	.3125302	.3505540
16	.1913110	.2210342
17	.1037699	.1238943
18	.0494415	.0610391
19	.0204320	.0261195
20	.0072296	.0095786
21	.0021557	.0029623
22	.0005307	.0007569
23	.0001049	.0001554
24	.0000160	.0000246
25	.0000018	.0000028
26	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 20

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.2452807	.4320238	.5738048	.6811441	.7621731	.8231602	.8689242	.9031590
2	.0318248	.1074660	.2047285	.3091454	.4116914	.5071062	.5926784	.6673723
3	.0027171	.0180470	.0506297	.0998962	.1626649	.2347618	.3119770	.3905792
4	.0001690	.0022314	.0093248	.0243340	.0490739	.0841032	.1288672	.1819815
5	.0000081	.0002141	.0013407	.0046563	.0117084	.0240000	.0427260	.0686131
6	.0000003	.0000165	.0001554	.0007208	.0022687	.0055854	.0116051	.0212943
7		.0000010	.0000148	.0000922	.0003642	.0010797	.0026255	.0055213
8		.0000001	.0000012	.0000099	.0000492	.0001758	.0005013	.0012106
9			.0000001	.0000009	.0000056	.0000244	.0000816	.0002366
10				.0000001	.0000006	.0000029	.0000114	.0000365
11						.0000003	.0000014	.0000051
12							.0000001	.0000006
13								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9386886	.9476653	.9617246	.9721057	.9797447	.9853460	.9894384	.9924174
2	.7318109	.7848460	.8292657	.8656004	.8949983	.9185509	.9372516	.9519767
3	.4675458	.5406171	.6082530	.6695537	.7240444	.7717572	.8129244	.8479863
4	.2415467	.3054337	.3715127	.4378186	.5026558	.5646528	.6227768	.6763196
5	.1018496	.1421119	.1886375	.2403341	.2958992	.3539361	.4130552	.4719545
6	.0355319	.0550069	.0801453	.1110715	.1476048	.1892831	.2354087	.2851064
7	.0103894	.0179067	.0287435	.0435024	.0626622	.0865345	.1152360	.1486777
8	.0025743	.0049510	.0087759	.0145442	.0227713	.0339655	.0485856	.0670060
9	.0005454	.0011723	.0022989	.0041785	.0071244	.0115014	.0177108	.0261702
10	.0000995	.0002393	.0005197	.0010374	.0019288	.0033748	.0056030	.0088852
11	.0000157	.0000423	.0001019	.0002236	.0004537	.0008613	.0015434	.0026297
12	.0000028	.0000065	.0000174	.0000420	.0000930	.0001917	.0003711	.0006799
13	.0000003	.0000009	.0000026	.0000069	.0000166	.0000373	.0000780	.0001538
14		.0000001	.0000003	.0000010	.0000026	.0000063	.0000143	.0000304
15				.0000001	.0000004	.0000009	.0000023	.0000053
16						.0000001	.0000003	.0000008
17								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9945777	.9961382	.9972611	.9980657	.9986399	.9990480	.9993367	.9995400
2	.9634809	.9724024	.9792721	.9845257	.9885169	.9915294	.9937887	.9954724
3	.8774964	.9020633	.9223069	.9388284	.9521895	.9629010	.9714166	.9781317
4	.7248653	.7682474	.8065011	.8398173	.8684985	.8929205	.9135010	.9306728
5	.5294792	.5846585	.6367242	.6851126	.7294548	.7695575	.8053793	.8370039
6	.3373887	.3912185	.4455679	.4994669	.5520421	.6025429	.6503582	.6950217
7	.1865706	.2284458	.2736845	.3215565	.3712608	.4219673	.4728556	.5231485
8	.0894864	.1161497	.1469698	.1817697	.2202283	.2618966	.3062205	.3525676
9	.0372890	.0514424	.0668464	.0900347	.1148401	.1433827	.1755634	.2111649
10	.0135311	.0198779	.0282759	.0390707	.0525855	.0691005	.0888358	.1119350
11	.0042856	.0067132	.0101498	.0148629	.0211430	.0292929	.0396151	.0533971
12	.0011869	.0019844	.0031923	.0049596	.0074660	.0109201	.0155568	.0216311
13	.0002877	.0005139	.0008803	.0014523	.0023155	.0035789	.0053762	.0078673
14	.0000611	.0001166	.0002128	.0003731	.0006304	.0010304	.0016335	.0025178
15	.0000114	.0000232	.0000451	.0000840	.0001505	.0002603	.0004357	.0007079
16	.0000018	.0000040	.0000083	.0000165	.0000315	.0000576	.0001018	.0001744
17	.0000003	.0000006	.0000013	.0000028	.0000057	.0000111	.0000200	.0000375
18		.0000001	.0000002	.0000004	.0000009	.0000019	.0000037	.0000070
19				.0000001	.0000001	.0000003	.0000006	.0000011
20							.0000001	.0000002

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9996825	.9997820	.9998511	.9998988	.9999316	.9999540	.9999693	.9999796
2	.9967194	.9976372	.9983085	.9987965	.9991490	.9994020	.9995825	.9997104
3	.9833853	.9874638	.9906063	.9930095	.9948337	.9962084	.9972367	.9980003
4	.9448644	.9564856	.9659171	.9735052	.9795502	.9843464	.9881028	.9910357
5	.8646127	.8884590	.9088445	.9260989	.9405625	.9525731	.9624551	.9705123
6	.7362100	.7737331	.8075211	.8376072	.8641091	.8872110	.9071452	.9241762
7	.5721398	.6192149	.6638640	.7056889	.7444038	.7798303	.8118093	.8405894
8	.4002568	.4485886	.4968731	.5444555	.5907378	.6351951	.6773872	.7169658
9	.2498592	.2912205	.3347432	.3798631	.4259798	.4724805	.5187624	.5642530
10	.1384535	.1683505	.2014858	.2376227	.2764341	.3175142	.3603930	.4045539
11	.0678966	.0863264	.1078406	.1325229	.1603783	.1913274	.2252053	.2617648
12	.0294110	.0391676	.0511636	.0656412	.0828096	.1026327	.1250184	.1510065
13	.0113373	.0156944	.0214664	.0289743	.0384253	.0498038	.0632610	.0785047
14	.0037814	.0055439	.0079478	.0111583	.0153617	.0207633	.0275827	.0360401
15	.0011186	.0017227	.0025906	.0038098	.0054872	.0077498	.0107453	.0146415
16	.0002901	.0004696	.0007413	.0011426	.0017225	.0025444	.0036850	.0052394
17	.0000658	.0001119	.0001855	.0002999	.0004736	.0007318	.0010377	.0014444
18	.0000130	.0000232	.0000404	.0000685	.0001154	.0001834	.0002803	.0004103
19	.0000022	.0000042	.0000076	.0000136	.0000235	.0000398	.0000655	.0001068
20	.0000003	.0000006	.0000012	.0000023	.0000042	.0000074	.0000129	.0000218
21		.0000001	.0000002	.0000003	.0000006	.0000012	.0000021	.0000038
22					.0000001	.0000002	.0000003	.0000005
23								.0000001

x	.33	.34	.35	.36	.37	38	.39	.40
1	.9999865	.9999911	.9999942	.9999963	.9999976	.9999985	.9999990	.9999994
2	.9998004	.9998634	.9999072	.9999373	.9999580	.9999721	.9999816	.9999879
3	.9985632	.9989750	.9992742	.9994898	.9996441	.9997537	.9998308	.9998848
4	.9933817	.9950088	.9963204	.9973084	.9980466	.9985936	.9989856	.9992887
5	.9770234	.9828387	.9863797	.9896391	.9921824	.9941498	.9956583	.9968050
6	.9385859	.9506618	.9606868	.9689321	.9756511	.9810762	.9854166	.9888573
7	.8660135	.8833052	.9076341	.9248827	.9384339	.9503605	.9633159	.9685464
8	.7536734	.7873471	.8179064	.8453488	.8697381	.8911939	.9098793	.9259908
9	.6084278	.6508241	.6910516	.7287980	.7639328	.7965084	.8265336	.8541169
10	.4494504	.4948332	.5392594	.5831096	.6256107	.6663508	.7049699	.7411861

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 20

r	.33	.34	.35	.36	.37	.38	.39	.40
11	.30067990	.34156150	.38396440	.42740500	.47137740	.51536950	.55880020	.60143370
12	.18077370	.21260840	.24713090	.28408600	.32315120	.36394550	.40604110	.44897660
13	.09711078	.11849880	.14275160	.16987870	.19982550	.23246710	.26760890	.30498930
14	.04639960	.05888302	.07357710	.09081220	.11068160	.13328730	.15867870	.18668450
15	.01962460	.02589620	.03366880	.04316040	.05458760	.06815780	.08406030	.10245770
16	.00733807	.01006130	.01361230	.01814330	.02383980	.03090090	.03953380	.04994950
17	.00239690	.00343340	.00483760	.00670960	.00916750	.01234750	.01640380	.02150740
18	.00068500	.00102330	.00150240	.00216980	.00308490	.00432070	.00596520	.00812310
19	.00016070	.00026450	.00040490	.00060930	.00090180	.00131420	.00188670	.00267020
20	.00003620	.00005480	.00009390	.00014720	.00022700	.00034430	.00051430	.00075690
21	.00000650	.00001110	.00001850	.00003030	.00004870	.00007690	.00011950	.00018290
22	.00000100	.00000180	.00000310	.00000520	.00000860	.00001440	.00002330	.00003710
23	.00000010	.00000020	.00000040	.00000070	.00000130	.00000220	.00000370	.00000620
24				.00000010	.00000020	.00000030	.00000050	.00000080
25								.00000010

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.99999960	.99999980	.99999990	.99999990	.99999990	1.00000000	1.00000000	1.00000000
2	.99999220	.99999490	.99999680	.99999800	.99999870	.99999920	.99999950	.99999970
3	.99992210	.99994780	.99996540	.99997720	.99998510	.99999040	.99999380	.99999610
4	.99950040	.99965220	.99975990	.99983580	.99988870	.99992530	.99995030	.99996730
5	.99766890	.99831410	.99879150	.99914150	.99939580	.99957880	.99970920	.99980130
6	.99155980	.99366300	.99524450	.99652300	.99746000	.99816200	.99868290	.99906550
7	.97588600	.98075220	.98514310	.98863630	.99138850	.99335350	.99519390	.99646190
8	.93974370	.95136490	.96109850	.96916100	.97577600	.98114920	.98546990	.98890880
9	.87490910	.89555150	.91348380	.92899330	.94224460	.95345220	.96283410	.97060710
10	.77478790	.80563640	.83366200	.85868590	.88127890	.90102160	.91822680	.93306510
11	.64259390	.68197520	.71925080	.75415880	.78650470	.81616160	.84306780	.86722210
12	.49227170	.53544250	.57801590	.61954410	.65961680	.69787200	.73400350	.76776700
13	.34428500	.38512010	.42707620	.46970510	.51254230	.55512120	.59698710	.63771030
14	.21771490	.25111450	.28693250	.32480590	.36443930	.40545660	.44744240	.48995370
15	.12347680	.14720020	.17365840	.20288240	.23460870	.26885800	.30535460	.34382070
16	.06235520	.07694730	.09390290	.11337130	.13546540	.16025360	.18775270	.21792150
17	.02784480	.03561310	.04501760	.05626500	.06955760	.08508530	.10301010	.12349710
18	.01091640	.01448490	.01898580	.02459270	.03149320	.03988610	.04997680	.06197170
19	.00372750	.00513510	.00698480	.00938490	.01246100	.01635650	.02123210	.02726510
20	.00109820	.00157160	.00221990	.00309600	.00425530	.00580710	.00781600	.01040360
21	.00027590	.00041040	.00060230	.00087240	.00124780	.00176320	.00246230	.00339950
22	.00005830	.00009010	.00013740	.00020680	.00030730	.00045090	.00065360	.00093660
23	.00001010	.00001630	.00002590	.00004050	.00006250	.00009520	.00014330	.00021320
24	.00000140	.00000240	.00000390	.00000640	.00001020	.00001610	.00002520	.00003900
25	.00000020	.00000030	.00000050	.00000080	.00000130	.00000210	.00000340	.00000550
26				.00000010	.00000010	.00000020	.00000030	.00000060

r	.49	.50
1	1.00000000	1.00000000
2	.99999980	.99999990
3	.99999750	.99999850
4	.99997870	.99998630
5	.99986560	.99991000
6	.99934370	.99958390
7	.99742160	.99811400
8	.99161780	.98371290
9	.97690030	.98215090
10	.94572810	.95642070
11	.88867740	.90753330
12	.79898280	.82753580
13	.67668980	.71420590
14	.53253320	.57472300
15	.38619210	.42527700
16	.25065750	.28579410
17	.14662620	.17246430
18	.07607220	.09246670
19	.03464670	.04357930
20	.01369880	.01784910
21	.00464190	.00627050
22	.00132700	.00188960
23	.00031360	.00045610
24	.00005960	.00009000
25	.00000870	.00001370
26	.00000090	.00000150
27	.00000010	.00000010

$$I(n,p) = \sum_{r=n}^{20} \binom{20}{r} p^r (1-p)^{20-r} \qquad n = 20$$

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.2528279	.4433833	.5865907	.6938983	.7740645	.8337706	.8780995	.9109063
2	.0339593	.1139572	.2158008	.3240254	.4293158	.5260698	.6120156	.6862352
3	.0010082	.0198354	.0552526	.1002662	.1751168	.2511025	.3316861	.4137226
4	.0001945	.0025477	.0105640	.0273565	.0547534	.0931427	.1416840	.1986693
5	.0000097	.0002545	.0015802	.0054435	.0135767	.0276068	.0487566	.0776826
6	.0000004	.0000205	.0001909	.0008782	.0027407	.0066903	.0137836	.0250797
7		.0000014	.0000191	.0001174	.0004594	.0013501	.0033541	.0067830
8		.0000001	.0000016	.0000132	.0000649	.0002301	.0006500	.0015554
9			.0000001	.0000013	.0000078	.0000335	.0001110	.0003053
10				.0000001	.0000008	.0000042	.0000169	.0000517
11					.0000001	.0000005	.0000021	.0000076
12							.0000002	.0000010
13								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9351066	.9528907	.9659349	.9754511	.9823779	.9873975	.9910226	.9936306
2	.7448839	.8011279	.8450362	.8783010	.9060153	.9279022	.9450797	.9586472
3	.4912754	.5650400	.6325644	.6930617	.7468604	.7923083	.8315735	.8646847
4	.2611866	.3209520	.3775542	.4296244	.5314363	.5936474	.6512989	.7037869
5	.1144223	.1504441	.2007538	.2640322	.3227775	.3834365	.4448134	.5046589
6	.0415005	.0637174	.0920794	.1265830	.1668830	.2123345	.2620556	.3150021
7	.0126522	.0216167	.0343977	.0516107	.0737047	.1009193	.1332619	.1705063
8	.0032777	.0062466	.0109732	.0180192	.0279571	.0413351	.0585832	.0800735
9	.0007200	.0015502	.0030115	.0054224	.0091505	.0146463	.0223420	.0327030
10	.0001396	.0003326	.0007154	.0014143	.0026042	.0045125	.0074192	.0116508
11	.0000233	.0000620	.0001478	.0003212	.0006454	.0012132	.0021523	.0036306
12	.0000034	.0000101	.0000267	.0000637	.0001309	.0002854	.0005469	.0009919
13	.0000004	.0000014	.0000042	.0000111	.0000266	.0000589	.0001220	.0002380
14		.0000002	.0000006	.0000017	.0000044	.0000107	.0000239	.0000508
15			.0000001	.0000002	.0000006	.0000017	.0000041	.0000095
16					.0000001	.0000002	.0000006	.0000015
17							.0000001	.0000002

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9954995	.9968333	.9977815	.9984526	.9989256	.9992574	.9994898	.9996504
2	.9687673	.9766748	.9826900	.9872337	.9906428	.9931835	.9950647	.9964406
3	.8921138	.9147243	.9331303	.9479676	.9598183	.9691993	.9765622	.9822934
4	.7509126	.7923342	.8285042	.8596125	.8860736	.9083162	.9268216	.9420629
5	.5626948	.6177045	.6689818	.7160535	.7586539	.7966974	.8302473	.8594045
6	.3700440	.4260377	.4818076	.5365961	.5898987	.6392861	.6860130	.7290975
7	.2122007	.2577449	.3063424	.3571386	.4092248	.4616939	.5136813	.5643981
8	.1059907	.1363630	.1710456	.2097271	.2519451	.2971122	.3444568	.3935070
9	.0461625	.0630897	.0837709	.1083817	.1369716	.1694556	.2056146	.2451016
10	.0175700	.0258595	.0360032	.0492635	.0656590	.0854426	.1087932	.1357502
11	.0058573	.0090829	.0135917	.0197044	.0277459	.0380506	.0509358	.0666862
12	.0017137	.0028356	.0045142	.0069403	.0103382	.0149621	.0210902	.0290149
13	.0004406	.0007786	.0013196	.0021537	.0033971	.0051940	.0077170	.0111706
14	.0000996	.0001881	.0003390	.0005809	.0009843	.0015911	.0024944	.0038017
15	.0000198	.0000400	.0000769	.0001418	.0002513	.0004297	.0007112	.0011423
16	.0000035	.0000075	.0000153	.0000300	.0000565	.0001023	.0001786	.0003024
17	.0000005	.0000012	.0000027	.0000056	.0000111	.0000213	.0000394	.0000704
18	.0000001	.0000002	.0000004	.0000009	.0000019	.0000039	.0000076	.0000143
19			.0000001	.0000001	.0000003	.0000006	.0000013	.0000025
20						.0000001	.0000002	.0000004
21								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9997619	.9998387	.9998913	.9999271	.9999514	.9999678	.9999788	.9999861
2	.9974602	.9981948	.9987250	.9991051	.9993759	.9995676	.9997024	.9997965
3	.9867188	.9901089	.9926859	.9946299	.9960852	.9971665	.9979639	.9985475
4	.9544046	.9645399	.9725832	.9789664	.9839881	.9879050	.9909343	.9932576
5	.8846757	.9061459	.9242541	.9393727	.9518713	.9621051	.9704059	.9770766
6	.7683107	.8035619	.8348785	.8623849	.8863806	.9068196	.9243912	.9390037
7	.6131574	.6593897	.7026514	.7426260	.7791183	.8120445	.8414186	.8673371
8	.4433276	.4929515	.5419606	.5896009	.6353009	.6788856	.7190828	.7565249
9	.2874586	.3321362	.3785183	.4259490	.4737596	.5212949	.5679361	.6131209
10	.1663049	.2003967	.2374653	.2774500	.3198024	.3640041	.4094875	.4556576
11	.0855358	.1076527	.1331248	.1619508	.1940345	.2291834	.2671135	.3074869
12	.0390324	.0514289	.0664664	.0843681	.1053045	.1293811	.1566282	.1869943
13	.0157807	.0217975	.0294846	.0391114	.0509418	.0652335	.0821708	.1019619
14	.0056454	.0081830	.0115978	.0160963	.0219051	.0292654	.0384260	.0496342
15	.0017843	.0027162	.0040370	.0058674	.0083508	.0116538	.0159649	.0214916
16	.0004972	.0007954	.0012406	.0018895	.0028145	.0041060	.0058736	.0082480
17	.0001218	.0002049	.0003356	.0005359	.0008359	.0012756	.0019066	.0027948
18	.0000262	.0000463	.0000796	.0001335	.0002179	.0003379	.0005457	.0008324
19	.0000049	.0000091	.0000165	.0000289	.0000496	.0000829	.0001355	.0002167
20	.0000008	.0000016	.0000030	.0000055	.0000098	.0000171	.0000293	.0000490
21	.0000001	.0000002	.0000005	.0000009	.0000017	.0000031	.0000055	.0000095
22			.0000001	.0000001	.0000003	.0000005	.0000009	.0000016
23						.0000001	.0000001	.0000002

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999910	.9999942	.9999963	.9999976	.9999985	.9999990	.9999994	.9999996
2	.9998618	.9999068	.9999376	.9999585	.9999727	.9999821	.9999884	.9999925
3	.9989715	.9992771	.9994957	.9996509	.9997603	.9998367	.9998896	.9999260
4	.9950246	.9963573	.9973542	.9980937	.9986377	.9990344	.9993214	.9995271
5	.9823886	.9865808	.9898589	.9924000	.9943521	.9958384	.9969599	.9977985
6	.9512703	.9613979	.9696793	.9763866	.9817677	.9860442	.9894109	.9920364
7	.8899624	.9095065	.9262156	.9403565	.9522043	.9620335	.9701051	.9766707

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 29

r	.33	.34	.35	.36	.37	.38	.39	.40
0	.7907457	.8816724	.9493181	.9737650	.9951556	.9136772	.9295496	.9430187
9	.6563508	.6972419	.7354508	.7707563	.8030174	.8321751	.8582450	.8813062
10	.5019143	.5476754	.5923867	.6355574	.6767539	.7156104	.7518785	.7853164
11	.3497748	.3935785	.4383176	.4834586	.5284445	.5727434	.6150532	.6573346
12	.2303487	.2664535	.3050226	.3356809	.3779949	.4214866	.4656483	.5099594
13	.1247174	.1504961	.1798844	.2109934	.2454560	.2834209	.3215976	.3625048
14	.0631266	.0791175	.0977883	.1192761	.1436648	.1709755	.2011615	.2341052
15	.0284571	.0370918	.0478367	.0603150	.0753484	.0929970	.1131615	.1362129
16	.0113810	.0154432	.0206321	.0271494	.0358165	.0450685	.0560991	.0709528
17	.0040218	.0056869	.0073047	.0100257	.0145963	.0193778	.0252245	.0328943
18	.0013499	.0018427	.0026697	.0037041	.0053355	.0073709	.0100363	.0134769
19	.0003398	.0005225	.0007800	.0011710	.0017096	.0024566	.0034773	.0048514
20	.0000682	.0001288	.0003027	.0003156	.0004767	.0007120	.0010496	.0015838
21	.0000163	.0000273	.0000449	.0000724	.0001146	.0001785	.0002735	.0004125
22	.0000026	.0000042	.0000085	.0000142	.0000235	.0000381	.0000600	.0000954
23	.0000004	.0000004	.0001013	.0000024	.0000041	.0000069	.0000114	.0000186
24		.0000001	.0000009	.0000003	.0000006	.0000013	.0000018	.0000030
25					.0000001	.0000001	.0000002	.0000004

r	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999952	.9999970	.9999981	.9999988	.9999993	.9999996	.9999997	.9999998
3	.9999508	.9999676	.9999789	.9999863	.9999913	.9999944	.9999965	.9999978
4	.9996733	.9997764	.9998403	.9998980	.9999321	.9999550	.9999708	.9999811
5	.9984199	.9988761	.9992079	.9994470	.9996176	.9997303	.9998225	.9998810
6	.9940645	.9956164	.9967925	.9976751	.9983311	.9988137	.9991653	.9994187
7	.9819582	.9861747	.9895039	.9921065	.9941206	.9956637	.9968337	.9977116
8	.9543160	.9637099	.9714377	.9777302	.9828016	.9868469	.9900402	.9925343
9	.9014913	.9189740	.9339581	.9466671	.9573339	.9661920	.9734729	.9793919
10	.8158176	.8433856	.8679854	.8897181	.9087136	.9251397	.9391922	.9510859
11	.6967935	.7339129	.7684476	.8002269	.8291531	.8551973	.8783926	.8988267
12	.5579038	.5969862	.6347469	.6711745	.7059164	.7388852	.7698637	.7985055
13	.4049595	.4402555	.4749802	.5086342	.5407259	.5707865	.5984384	.6236775
14	.2696086	.3074190	.3471943	.3884615	.4310857	.4743024	.5177284	.5608769
15	.1621144	.1908573	.2223662	.2564962	.2930325	.3316934	.3721359	.4139645
16	.0874151	.1064535	.1281977	.1527306	.1800799	.2102116	.2430256	.2783531
17	.0419941	.0530735	.0660383	.0811918	.0992161	.1196628	.1428434	.1688806
18	.0178571	.0233588	.0301795	.0386505	.0486222	.0606770	.0749069	.0915039
19	.0066750	.0090620	.0121453	.0160763	.0210255	.0271801	.0347431	.0439243
20	.0021762	.0030683	.0042688	.0058631	.0079534	.0106598	.0141816	.0184971
21	.0006130	.0008981	.0012979	.0018508	.0026057	.0036234	.0049765	.0067615
22	.0001475	.0002247	.0003373	.0004997	.0007305	.0010545	.0015037	.0021188
23	.0000299	.0000473	.0000738	.0001137	.0001726	.0002588	.0003832	.0005604
24	.0000050	.0000082	.0000135	.0000214	.0000337	.0000525	.0000807	.0001226
25	.0000007	.0000011	.0000019	.0000032	.0000053	.0000066	.0000137	.0000216
26	.0000001	.0000001	.0000002	.0000004	.0000006	.0000011	.0000018	.0000029
27					.0000001	.0000001	.0000002	.0000003

r	.49	.50
1	1.0000000	1.0000000
2	.9999999	.9999999
3	.9999987	.9999992
4	.9999879	.9999924
5	.9999210	.9999481
6	.9995994	.9997269
7	.9983634	.9988421
8	.9944617	.9959350
9	.9841527	.9879402
10	.9613417	.9692858
11	.9166382	.9319770
12	.8429331	.8675346
13	.7367197	.7708708
14	.6032731	.6444644
15	.4567414	.5000000
16	.3159570	.3555356
17	.1976015	.2291292
18	.1106437	.1324654
19	.0549458	.0680230
20	.0239633	.0307142
21	.0090798	.0120598
22	.0029513	.0040650
23	.0008101	.0011579
24	.0001840	.0002731
25	.0000337	.0000519
26	.0000048	.0000076
27	.0000005	.0000008
28		.0000001

$$I_{n,m}(x) = \sum_{k=0}^{\infty} \frac{(-1)^k x^{n+2k}}{k!\,(n+k)!\,2^{n+2k}}$$

$n = 30$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.26029906	.45451457	.59899899	.70614434	.78536128	.84374446	.88663256	.91800318
2	.03614000	.12054457	.22692455	.33088203	.44645799	.54453315	.63064156	.70420449
3	.00351177	.02171778	.06006911	.11689666	.18703212	.26776005	.35125344	.43466036
4	.00023226	.00288935	.01190466	.03059389	.06077166	.10362003	.15498007	.21579936
5	.00001116	.00063003	.00184977	.00632000	.01563555	.03153044	.05526166	.08736159
6	.00000035	.00003511	.00023266	.00106088	.00338855	.00794528	.01623177	.02920879
7		.00000171	.00003432	.00014778	.00057355	.00167055	.00399112	.00838460
8		.00000011	.00000321	.00001744	.00008446	.00030971	.00083933	.00197356
9			.00000028	.00000171	.00001107	.00004451	.00014887	.00040548
10				.00000021	.00000128	.00000559	.00002230	.00007208
11					.00000011	.00000057	.00000231	.00000811
12						.00000005	.00000024	.00000151
13								.00000009

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.93409470	.95760088	.97460820	.98383987	.98946607	.99291619	.99533693	.99686497
2	.76573349	.81630509	.85726711	.89002297	.91594285	.93663316	.95197111	.96407765
3	.51446928	.58864888	.65580043	.71530000	.76703555	.81128915	.84859294	.87963639
4	.28835316	.35355608	.42340653	.49299169	.55936545	.61845599	.67834401	.72955204
5	.13876941	.17549449	.22952110	.28808233	.34990032	.41206660	.47553113	.53651143
6	.04806634	.07319017	.10491136	.14307769	.18714493	.23638888	.28944843	.34534639
7	.01584066	.02502688	.04074287	.06066074	.08581179	.11655175	.15258110	.19368256
8	.00411214	.00778836	.01354099	.02205028	.03390433	.04966883	.06978850	.09454277
9	.00095775	.00201908	.00380973	.00693408	.01160233	.01838814	.02777882	.04028831
10	.00019036	.00045448	.00096880	.00189538	.00345638	.00595313	.00965726	.01501993
11	.00003337	.00000891	.00002103	.00004524	.00009001	.00016751	.00029424	.00049138
12	.00000528	.00001538	.00000400	.00000946	.00002056	.00004153	.00007077	.00011841
13	.00000077	.00000253	.00000067	.00000174	.00000413	.00000906	.00001857	.00003585
14	.00000001	.00000039	.00000010	.00000029	.00000073	.00000174	.00000386	.00000803
15			.00000001	.00000004	.00000011	.00000030	.00000071	.00000158
16				.00000001	.00000003	.00000004	.00000011	.00000028
17						.00000001	.00000002	.00000004
18								.00000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.99626465	.99748033	.99820030	.99876211	.99915842	.99942008	.99960671	.99973431
2	.97331108	.98030354	.98555774	.98947755	.99233022	.99451908	.99608233	.99721700
3	.90514499	.92587554	.94254666	.95588210	.96689914	.97447588	.98081777	.98569071
4	.77483308	.81436444	.84838838	.87728928	.90156008	.92171058	.93826199	.95171888
5	.59467488	.64911378	.69939910	.74476674	.78541318	.82125358	.85245948	.87930338
6	.40279478	.46053778	.51743558	.57248768	.62486338	.67391668	.71918698	.76031038
7	.23904188	.28803768	.33969608	.39303018	.44704038	.50076428	.55331758	.60392598
8	.10404798	.15821178	.19675208	.23922948	.28467388	.33327018	.38344758	.43453098
9	.03633338	.07622798	.11035518	.12865708	.16111668	.19754028	.23756698	.28071898
10	.00834308	.03231508	.04507918	.06100718	.08063468	.10392558	.13105448	.16199458
11	.00170488	.01204878	.01705158	.02561638	.03570768	.04847688	.06424078	.08336168
12	.00034108	.00396018	.00623938	.00949318	.01399388	.02004168	.02745478	.03680608
13	.00006578	.00114898	.00193668	.00311108	.00485478	.00733408	.01019348	.01545388
14	.00001578	.00039448	.00052588	.00090198	.00144108	.00228378	.00369578	.00557038
15	.00000338	.00006678	.00012698	.00023128	.00040528	.00068528	.00112148	.00178058
16	.00000068	.00001338	.00002708	.00005248	.00009748	.00017428	.00030118	.00050408
17	.00000018	.00000238	.00000518	.00001058	.00002078	.00003918	.00007148	.00012618
18	.00000001	.00000048	.00000088	.00000188	.00000398	.00000778	.00001498	.00002788
19			.00000018	.00000038	.00000068	.00000138	.00000278	.00000548
20					.00000018	.00000028	.00000048	.00000098
21							.00000018	.00000018

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.99882214	.99908806	.99929206	.99946475	.99959655	.99969775	.99977854	.99983906
2	.99800356	.99862232	.99900399	.99923353	.99938428	.99948877	.99957881	.99968572
3	.98940041	.99221113	.99431165	.99588029	.99703095	.99780860	.99850028	.99894978
4	.96255507	.97118879	.97801109	.98335222	.98749639	.99068344	.99311358	.99495048
5	.90831304	.92132884	.93730308	.95045898	.96118528	.96984518	.97676978	.98232458
6	.79740198	.83023378	.85900998	.88394148	.90530198	.92340528	.93858688	.95118718
7	.65194578	.69687448	.73836278	.77615858	.81019548	.84047708	.86711098	.89027048
8	.48571008	.53622548	.58534728	.63244798	.67700808	.71862338	.75700698	.79198488
9	.33640088	.37394828	.42264778	.47177158	.52060668	.56804818	.61479168	.65901028
10	.19659348	.23457498	.27554968	.31902978	.36445008	.41119138	.45866068	.50604598
11	.10572818	.13174018	.16129678	.19429068	.23050728	.26961968	.31124948	.35488118
12	.05065838	.06604718	.08446418	.10609128	.13103628	.15938188	.19088788	.22554238
13	.02159368	.02950168	.03946978	.05178338	.06670708	.08447018	.10523268	.12917238
14	.00817928	.01172288	.01642738	.02254058	.03032588	.04008358	.05196688	.06631798
15	.00274958	.00413768	.00607848	.00873158	.01232168	.01693738	.02290788	.03049738
16	.00081908	.00129548	.00199568	.00300338	.00440208	.00630638	.00890198	.01241608
17	.00021578	.00035858	.00057098	.00089148	.00136498	.00205628	.00305628	.00447388
18	.00005018	.00008758	.00014878	.00024608	.00039718	.00062628	.00096628	.00146048
19	.00001028	.00001888	.00003358	.00005828	.00009848	.00016348	.00026208	.00041368
20	.00000188	.00000358	.00000668	.00001208	.00002138	.00003698	.00006208	.00010278
21	.00000033	.00000068	.00000118	.00000228	.00000408	.00000738	.00001308	.00002238
22		.00000018	.00000028	.00000048	.00000078	.00000148	.00000258	.00000448
23					.00000018	.00000028	.00000048	.00000078
24								.00000018

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.99999939	.99999961	.99999976	.99999985	.99999990	.99999994	.99999996	.99999998
2	.99990044	.99993365	.99995581	.99997026	.99998032	.99998685	.99999087	.99999354
3	.99926653	.99949112	.99966504	.99976617	.99983089	.99987019	.99989281	.99990526
4	.99631290	.99735000	.99811037	.99866543	.99900530	.99921393	.99935430	.99946867
5	.98655585	.98990046	.99244823	.99444990	.99593778	.99705299	.99788809	.99848099
6	.96153938	.96996008	.97674228	.98215158	.98642408	.98976608	.99235508	.99437188

$$\sum_{r=0}^{n} \binom{n}{r} p^r q^{n-r}$$

n = 30

X	.33	.34	.35	.36	.37	.38	.39	.40
7	.9101940	.9371496	.9614079	.9531271	.9631480	.9711569	.9776344	.9828170
8	.8234993	.8515163	.8763312	.8977377	.9163436	.9320622	.9453663	.9564759
9	.7087065	.7394484	.7753043	.8070394	.8371085	.8641459	.8860538	.9059888
10	.5528810	.5985267	.6424591	.6842800	.7234714	.7599100	.7933577	.8237135
11	.3999888	.4459568	.4922418	.5382142	.5833190	.6270353	.6689010	.7085281
12	.2610553	.3050731	.3451759	.3811809	.4133648	.4409638	.5243890	.5689095
13	.1550719	.1885219	.2197988	.2485809	.2744954	.3352708	.3777773	.4215343
14	.0834516	.1041862	.1263119	.1502943	.1761375	.2033270	.2481315	.2854956
15	.0390880	.0511818	.0651889	.0811541	.1006217	.1235731	.1474815	.1753691
16	.0170141	.0230857	.0310837	.0410891	.0500631	.0632406	.0788414	.0970568
17	.0064581	.0090047	.0123619	.0167083	.0220858	.0291489	.0376996	.0481117
18	.0021644	.0031497	.0045014	.0063119	.0087680	.0119411	.0160377	.0212360
19	.0006481	.0009714	.0014473	.0021190	.0030511	.0043240	.0060353	.0080316
20	.0001659	.0002530	.0004070	.0006221	.0009320	.0013955	.0019964	.0028839
21	.0000374	.0000618	.0001001	.0001578	.0002406	.0003816	.0005761	.0008564
22	.0000073	.0000126	.0000210	.0000352	.0000572	.0000915	.0001437	.0002223
23	.0000014	.0000023	.0000038	.0000066	.0000113	.0000187	.0000307	.0000495
24	.0000002	.0000003	.0000006	.0000011	.0000019	.0000032	.0000056	.0000092
25			.0000001	.0000001	.0000003	.0000005	.0000008	.0000014
26						.0000001	.0000001	.0000002

X	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999971	.9999988	.9999995	.9999998	.9999999	.9999999	.9999999	.9999999
3	.9999840	.9999939	.9999978	.9999991	.9999997	.9999998	.9999999	.9999999
4	.9999421	.9999767	.9999914	.9999969	.9999987	.9999995	.9999998	.9999999
5	.9998338	.9999154	.9999813	.9999954	.9999981	.9999990	.9999996	.9999998
6	.9995852	.9998055	.9999111	.9999548	.9999810	.9999920	.9999748	.9999406
7	.9989210	.9994402	.9997380	.9998567	.9999453	.9999778	.9999895	.9999510
8	.9976401	.9987451	.9993061	.9996557	.9998705	.9999036	.9999331	.9999594
9	.9951491	.9972633	.9985943	.9993348	.9997044	.9999537	.9999595	.9999700
10	.9909556	.9941127	.9963537	.9981457	.9993987	.9998241	.9999042	.9999725
11	.9836915	.9880815	.9918489	.9956959	.9982551	.9995707	.9998684	.9999108
12	.9712888	.9784954	.9845183	.9913135	.9960189	.9990647	.9998343	.9998554
13	.9508369	.9631224	.9729869	.9840557	.9920216	.9981760	.9996079	.9997581
14	.9195126	.9396600	.9550899	.9729255	.9853137	.9965851	.9992469	.9995778
15	.8761870	.9061115	.9296429	.9566049	.9751564	.9937935	.9985644	.9991824
16	.8189418	.8610611	.8996993	.9331875	.9599086	.9886038	.9973075	.9983424
17	.7463167	.8024351	.8627668	.9011809	.9381356	.9800448	.9948195	.9962963
18	.6577513	.7297869	.8175884	.8597883	.9085553	.9666315	.9900109	.9917160
19	.5577586	.6459667	.7650557	.8085569	.8698358	.9468591	.9818132	.9837021
20	.4549267	.5558857	.7076557	.7483175	.8220006	.9196401	.9688075	.9707021
21	.3612510	.4648096	.6482754	.6826169	.7650121	.8844601	.9492758	.9439946
22	.2800384	.3805075	.5877504	.6140942	.6991744	.8407362	.9210369	.9043473
23	.2120781	.3047504	.5272818	.5452715	.6255362	.7885369	.8831369	.8513084
24	.1564152	.2386246	.4677304	.4784622	.5457239	.7284474	.8350334	.7903328
25	.1120824	.1820741	.4098668	.4154113	.4625161	.6618288	.7767452	.7246701
26	.0777003	.1349006	.3543010	.3576616	.3793037	.5907045	.7089074	.6580119
27		.0980001	.3015001	.3057001	.3000005	.5170009	.6329009	.5913016
28			.0000001	.0000001	.0000003	.0000005	.0000001	.0000001

X	.49	.50
1	1.0000000	1.0000000
2	.9999999	1.0000000
3	.9999993	.9999996
4	.9999982	.9999958
5	.9999518	.9999703
6	.9997570	.9998375
7	.9989691	.9993445
8	.9961716	.9973896
9	.9892041	.9919376
10	.9723661	.9786130
11	.9383029	.9506314
12	.8749457	.8997558
13	.7887643	.8190087
14	.6886615	.7076676
15	.5885415	.5722329
16	.4849414	.4277670
17	.3555957	.2923384
18	.1533530	.1807973
19	.0832374	.1002443
20	.0391444	.0493686
21	.0163727	.0213870
22	.0059543	.0080624
23	.0018593	.0026114
24	.0004908	.0007155
25	.0001073	.0001635
26	.0000189	.0000307
27	.0000026	.0000043
28	.0000003	.0000004

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.2476966	.4654354	.6110231	.7179367	.7910942	.8531197	.8941683	.9243911
2	.0393895	.1272251	.2380866	.3533112	.4634031	.5624481	.6448508	.7211140
3	.0016460	.0236944	.0650744	.1259755	.2007530	.2842163	.3705105	.4567721
4	.0002535	.0032700	.0133496	.0340450	.0671240	.1122196	.1687196	.2351.98
5	.0000137	.0003532	.0021513	.0072009	.0174027	.0350455	.0622416	.0977661
6	.0000008	.0000306	.0002811	.0011.71	.0034001	.0092402	.0210656	.0421146
7		.0000022	.0000205	.0001847	.0007009	.0022492	.0054442	.0110301
8		.0000001	.0000028	.0000226	.0001641	.0005379	.0013534	.0029454
9			.0000002	.0000024	.0000144	.0000564	.0001966	.0004508
10				.0000002	.0000013	.0000078	.0000314	.0000928
11					.0000002	.0000010	.0000045	.0000165
12						.0000001	.0000006	.0000025
13							.0000001	.0000004

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9662614	.9811480	.9910170	.9880909	.9946661	.9980793	.9993156	.9997660
2	.7815043	.8304354	.8696327	.9006245	.9234793	.9431418	.9601308	.9742089
3	.5370831	.6114144	.6779650	.7362677	.7863334	.8287831	.8641051	.8931146
4	.3034060	.3761696	.4489692	.5190628	.5863617	.6498363	.7093700	.7653592
5	.1416295	.1932015	.2508490	.3127865	.3771331	.4420491	.5058724	.5667227
6	.0552302	.0834204	.1186205	.1604945	.2084073	.2610099	.3173403	.3759731
7	.0183010	.0305631	.0478015	.0705037	.0989911	.1332654	.1731075	.2179050
8	.0051220	.0095870	.0165411	.0265770	.0424551	.0659273	.0982144	.1316422
9	.0012423	.0025962	.0049502	.0087480	.0145016	.0227618	.0340702	.0494244
10	.0002614	.0006109	.0012891	.0024930	.0045152	.0076743	.0123764	.0189651
11	.0000480	.0001256	.0002930	.0006255	.0012324	.0022700	.0039497	.0066307
12	.0000077	.0000227	.0000587	.0001376	.0002959	.0005017	.0009139	.0016147
13	.0000011	.0000036	.0000104	.0000267	.0000627	.0001361	.0002760	.0005271
14	.0000001	.0000005	.0000016	.0000046	.0000117	.0000277	.0000607	.0001248
15		.0000001	.0000002	.0000007	.0000019	.0000053	.0000138	.0000313
16				.0000001	.0000003	.0000008	.0000026	.0000073
17						.0000001	.0000003	.0000018
18								.0000004

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.9986806	.9992707	.9995444	.9996896	.9997704	.9998403	.9998976	.9999451
2	.9772138	.9833814	.9879600	.9913344	.9934537	.9955681	.9968020	.9978219
3	.9167332	.9356724	.9507147	.9625523	.9717705	.9788855	.9843286	.9885470
4	.7969867	.8344364	.8662742	.8929966	.9151534	.9331180	.9480498	.9598716
5	.6253019	.6788786	.7276145	.7719712	.8099041	.8433540	.8721040	.8966496
6	.4354143	.4944857	.5519880	.6060434	.6559786	.7063307	.7498394	.7880204
7	.2668706	.3190874	.3734655	.4289215	.4843832	.5388577	.5914675	.6414774
8	.1435968	.1815804	.2239114	.2690715	.3190178	.3721574	.4225176	.4751791
9	.0678448	.0911268	.1186669	.1507625	.1871242	.2274118	.2711210	.3176311
10	.0281041	.0402285	.0555819	.0745939	.0975357	.1245207	.1555527	.1904884
11	.0103275	.0156966	.0230046	.0327104	.0451421	.0606755	.0796079	.1021575
12	.0033412	.0054161	.0084456	.0127177	.0185517	.0263073	.0363005	.0488553
13	.0009564	.0016549	.0027460	.0043975	.0067739	.0101267	.0147405	.0208776
14	.0002425	.0004482	.0007929	.0013437	.0021974	.0034744	.0053282	.0079427
15	.0000545	.0001076	.0002027	.0003454	.0006332	.0010580	.0017134	.0026901
16	.0000109	.0000229	.0000460	.0000862	.0001620	.0002867	.0004808	.0008104
17	.0000019	.0000043	.0000093	.0000189	.0000368	.0000685	.0001243	.0002168
18	.0000003	.0000007	.0000016	.0000036	.0000074	.0000146	.0000279	.0000514
19		.0000001	.0000003	.0000006	.0000013	.0000027	.0000055	.0000102
20				.0000001	.0000002	.0000005	.0000010	.0000020
21						.0000001	.0000001	.0000003

N	.25	.26	.27	.28	.29	.30	.31	.32
1	.9998661	.9999117	.9999421	.9999622	.9999755	.9999842	.9999899	.9999936
2	.9984821	.9989404	.9992777	.9995067	.9996654	.9997746	.9998492	.9999000
3	.9915620	.9938741	.9955918	.9968496	.9977655	.9984271	.9989012	.9992384
4	.9692640	.9766540	.9824134	.9868609	.9902638	.9928444	.9947842	.9962203
5	.9172355	.9342918	.9482941	.9596693	.9686154	.9760966	.9818363	.9863179
6	.8235840	.8530103	.8801400	.9025663	.9215080	.9373372	.9504235	.9611286
7	.6883038	.7315478	.7709302	.8053377	.8377763	.8653555	.8892672	.9097639
8	.5272690	.5779942	.6266587	.6726849	.7156323	.7551794	.7911386	.8234362
9	.3442281	.4161401	.4865760	.5167609	.5659610	.6135245	.6588783	.7015621
10	.2290482	.2708120	.3152661	.3617974	.4097354	.4583785	.5070239	.5549945
11	.1284444	.1584772	.1921480	.2292176	.2693508	.3120981	.3569301	.4032539
12	.0644257	.0831273	.1037871	.1270249	.1529882	.1824141	.2151934	.2509308
13	.0288598	.0390035	.0516182	.0668895	.0853624	.1069256	.1317967	.1600107
14	.0115328	.0163453	.0226487	.0307285	.0408763	.0533778	.0684992	.0864729
15	.0041049	.0064097	.0086728	.0125990	.0175144	.0238719	.0319361	.0419794
16	.0013016	.0020340	.0030980	.0044072	.0066909	.0095404	.0133188	.0182496
17	.0003665	.0005819	.0009632	.0014996	.0022887	.0033884	.0049547	.0070824
18	.0000915	.0001540	.0002651	.0004333	.0006907	.0010758	.0016390	.0024459
19	.0000202	.0000367	.0000646	.0001108	.0001850	.0003016	.0004801	.0007487
20	.0000039	.0000075	.0000139	.0000250	.0000439	.0000744	.0001242	.0002099
21	.0000007	.0000013	.0000026	.0000049	.0000090	.0000162	.0000282	.0000479
22	.0000001	.0000002	.0000004	.0000008	.0000016	.0000031	.0000056	.0000099
23			.0000001	.0000001	.0000003	.0000005	.0000009	.0000018
24						.0000001	.0000001	.0000003

N	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999959	.9999975	.9999984	.9999990	.9999994	.9999996	.9999998	.9999999
2	.9999340	.9999568	.9999719	.9999819	.9999884	.9999927	.9999954	.9999971
3	.9994748	.9996486	.9997681	.9998478	.9999019	.9999386	.9999633	.9999797
4	.9979047	.9987780	.9993451	.9996510	.9998438	.9999493	.9999738	.9999871
5	.9897891	.9934381	.9964408	.9985434	.9970904	.9979219	.9988891	.9994684
6	.9697098	.9747418	.9828518	.9883789	.9899681	.9945380	.9965101	.9980009

$$\text{[illegible]} = \sum_{\text{[illegible]}}^{n} \text{[illegible]}$$

N	.33	.34	.35	.36	.37	.38	.39	.40
7	.9271380	.9417051	.9537879	.9637040	.9717568	.9782284	.9833754	.9874267
8	.8521004	.8772448	.8990507	.9177501	.9336089	.9469120	.9579508	.9670123
9	.7412241	.7776243	.8106291	.8402029	.8663959	.8893303	.9091856	.9261836
10	.6016634	.6464741	.6889549	.7287288	.7655171	.7991396	.8295092	.8566236
11	.4504379	.4978372	.5448178	.5907795	.6351754	.6775277	.7174397	.7546023
12	.3082407	.3516571	.3966489	.4426409	.4890346	.5352310	.5806514	.6247570
13	.1915118	.2261489	.2636769	.3037609	.3459867	.3898742	.4348935	.4804844
14	.1074830	.1316521	.1590302	.1895855	.2231996	.2596662	.2986934	.3399111
15	.0542707	.0690633	.0865825	.1070122	.1304829	.1570599	.1867350	.2194197
16	.0245671	.0325216	.0423708	.0543718	.0687698	.0857871	.1056111	.1283817
17	.0099370	.0136970	.0185645	.0247615	.0325256	.0421038	.0537459	.0676898
18	.0035789	.0051404	.0072539	.0100652	.0137436	.0184800	.0244858	.0319886
19	.0011432	.0017120	.0025169	.0036356	.0051642	.0072185	.0099362	.0134769
20	.0003284	.0005038	.0007717	.0011611	.0017166	.0024960	.0035716	.0050330
21	.0000798	.0001301	.0002079	.0003259	.0005018	.0007593	.0011300	.0016554
22	.0000172	.0000293	.0000488	.0000798	.0001280	.0002017	.0003124	.0004759
23	.0000032	.0000057	.0000099	.0000169	.0000283	.0000464	.0000748	.0001185
24	.0000005	.0000010	.0000017	.0000031	.0000053	.0000091	.0000153	.0000253
25	.0000001	.0000001	.0000003	.0000005	.0000009	.0000015	.0000026	.0000045
26				.0000001	.0000001	.0000002	.0000004	.0000007
27								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999982	.9999989	.9999993	.9999996	.9999998	.9999999	.9999999	1.0000000
3	.9999805	.9999876	.9999922	.9999951	.9999970	.9999982	.9999989	.9999993
4	.9998617	.9999085	.9999400	.9999610	.9999750	.9999841	.9999900	.9999938
5	.9992836	.9995072	.9996644	.9997737	.9998489	.9999002	.9999348	.9999579
6	.9971145	.9979383	.9985415	.9989787	.9992921	.9995145	.9996707	.9997790
7	.9905825	.9930152	.9948710	.9962718	.9973180	.9980908	.9986555	.9990636
8	.9743711	.9802831	.9849818	.9886762	.9915493	.9937593	.9954404	.9967050
9	.9405744	.9526235	.9626010	.9707720	.9773897	.9826898	.9868871	.9901735
10	.8805551	.9014375	.9194536	.9348217	.9477834	.9585921	.9675032	.9747658
11	.7887967	.8198928	.8478439	.8726790	.8944921	.9134313	.9296862	.9434764
12	.6670649	.7071618	.7447124	.7794649	.8112520	.8399879	.8656633	.8883370
13	.5260761	.5711071	.6150441	.6573989	.6977427	.7357164	.7710383	.8035072
14	.3828814	.4271128	.4720764	.5172242	.5620078	.6058969	.6483966	.6890622
15	.2549424	.2930492	.3334086	.3756191	.4192217	.4637136	.5085652	.5532374
16	.1541813	.1830246	.2148516	.2495232	.2868201	.3264454	.3680302	.4111438
17	.0841610	.1033516	.1254159	.1504478	.1784915	.2095131	.2434049	.2799804
18	.0412272	.0524450	.0658810	.0817611	.1002864	.1216229	.1458901	.1731506
19	.0180220	.0237734	.0309505	.0397858	.0505194	.0633911	.0786514	.0964522
20	.0069886	.0095677	.0129207	.0172202	.0226595	.0294509	.0378220	.0480111
21	.0023883	.0033956	.0047599	.0065821	.0089828	.0121037	.0161084	.0211822
22	.0007138	.0010544	.0015351	.0022039	.0031214	.0043632	.0060223	.0082100
23	.0001848	.0002838	.0004293	.0006402	.0009415	.0013661	.0019565	.0027671
24	.0000410	.0000654	.0001029	.0001595	.0002436	.0003670	.0005457	.0008011
25	.0000077	.0000127	.0000208	.0000335	.0000532	.0000837	.0001287	.0001962
26	.0000012	.0000021	.0000035	.0000058	.0000096	.0000157	.0000252	.0000398
27	.0000001	.0000003	.0000005	.0000008	.0000014	.0000024	.0000040	.0000065
28				.0000001	.0000002	.0000003	.0000005	.0000008
29								.0000001

N	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	.9999996	.9999998
4	.9999962	.9999977
5	.9999731	.9999830
6	.9998534	.9999039
7	.9993351	.9995610
8	.9976454	.9983366
9	.9927171	.9946631
10	.9806167	.9852753
11	.9550397	.9646222
12	.9081258	.9251936
13	.8330022	.8594792
14	.7275119	.7634352
15	.5972003	.6399499
16	.4553084	.5000000
17	.3189751	.3600501
18	.2034010	.2365648
19	.1170351	.1405208
20	.0602600	.0748064
21	.0275508	.0353778
22	.0110593	.0147247
23	.0038558	.0053369
24	.0011614	.0016634
25	.0002953	.0004390
26	.0000622	.0000961
27	.0000106	.0000170
28	.0000014	.0000023
29	.0000001	.0000003

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 32

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.8750197	.4761169	.2226924	.7291808	.8062885	.8619325	.9010485	.9306838
2	.0406826	.1339891	.2492747	.3648085	.4800376	.5799224	.6657814	.7375770
3	.0019934	.0257650	.0702651	.1348831	.2138855	.3009124	.3902531	.4773835
4	.0002875	.0036785	.0149013	.0377142	.0738055	.1228209	.1828662	.2511283
5	.0000161	.0004105	.0024873	.0083611	.0203539	.0404062	.0696954	.1084891
6	.0000007	.0000371	.0003372	.0015120	.0045907	.0109474	.0219933	.0390300
7		.0000028	.0000380	.0002278	.0008685	.0024858	.0058361	.0118504
8		.0000002	.0000036	.0000291	.0001301	.0004797	.0013190	.0030719
9			.0000003	.0000032	.0000191	.0000795	.0002556	.0006864
10				.0000003	.0000023	.0000114	.0000433	.0001332
11					.0000002	.0000014	.0000064	.0000226
12						.0000002	.0000008	.0000034
13							.0000001	.0000004
14								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9510982	.9656632	.9759851	.9832719	.9883958	.9919841	.9944868	.9962248
2	.7963322	.8435746	.8810050	.9102768	.9329089	.9502271	.9633533	.9732142
3	.5900810	.6333165	.6990486	.7559916	.8043962	.8448633	.8781940	.9052782
4	.3244369	.3996941	.4741587	.5456026	.6123658	.6733409	.7279129	.7758762
5	.1561894	.2114983	.2726422	.3376045	.4043328	.4709046	.5356415	.5971782
6	.0630061	.0943987	.1331656	.1787695	.2302547	.2863579	.3456322	.4065671
7	.0215345	.0358489	.0555915	.0813026	.1132021	.1511668	.1947424	.2431861
8	.0063000	.0116855	.0199797	.0319363	.0482370	.0694234	.0958398	.1275968
9	.0015915	.0032954	.0062252	.0108994	.0179013	.0278387	.0412980	.0587934
10	.0003497	.0008094	.0016918	.0032497	.0058135	.0097865	.0156312	.0238460
11	.0000672	.0001741	.0004031	.0008505	.0016591	.0030134	.0052136	.0088554
12	.0000114	.0000330	.0000846	.0001961	.0004176	.0008268	.0015367	.0027031
13	.0000017	.0000055	.0000157	.0000400	.0000930	.0001999	.0004012	.0007584
14	.0000002	.0000008	.0000026	.0000072	.0000183	.0000428	.0000930	.0001892
15		.0000001	.0000004	.0000012	.0000032	.0000083	.0000191	.0000419
16				.0000002	.0000005	.0000014	.0000035	.0000083
17					.0000001	.0000002	.0000006	.0000014
18							.0000001	.0000002

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9974266	.9982540	.9988210	.9992077	.9994703	.9996474	.9997668	.9998465
2	.9805604	.9859894	.9899711	.9928695	.9949641	.9964670	.9975379	.9982956
3	.9270149	.9442600	.9577945	.9683007	.9763974	.9825622	.9873184	.9907044
4	.8173436	.8526589	.8823187	.9069069	.9270431	.9433435	.9563939	.9667321
5	.6544883	.7068790	.7539631	.7956161	.8319267	.8631463	.8896408	.9118482
6	.4676952	.5276764	.5853578	.6390090	.6903357	.7364758	.7770811	.8147903
7	.2955305	.3506593	.4073856	.4645259	.5209642	.5757018	.6278931	.6768654
8	.1645549	.2063317	.2523268	.3017631	.3537366	.4072719	.4613761	.5150899
9	.0807227	.1073265	.1386650	.1746047	.2148213	.2588150	.3059422	.3554426
10	.0349348	.0493722	.0675678	.0898324	.1163497	.1471568	.1821334	.2210027
11	.0133648	.0201123	.0292105	.0410883	.0561449	.0747215	.0970752	.1233560
12	.0045289	.0072666	.0112157	.0167163	.0241373	.0338604	.0462618	.0616850
13	.0013618	.0023319	.0038289	.0060535	.0092477	.0136930	.0196993	.0276045
14	.0003639	.0006654	.0011632	.0019525	.0031595	.0049404	.0074930	.0110468
15	.0000865	.0001689	.0003146	.0005610	.0009617	.0015904	.0025449	.0039506
16	.0000183	.0000382	.0000750	.0001436	.0003610	.0004566	.0007712	.0012615
17	.0000034	.0000077	.0000162	.0000327	.0000831	.0001168	.0002083	.0003592
18	.0000006	.0000014	.0000031	.0000066	.0000136	.0000266	.0000501	.0000911
19	.0000001	.0000002	.0000005	.0000012	.0000026	.0000054	.0000107	.0000205
20			.0000001	.0000002	.0000004	.0000010	.0000020	.0000041
21					.0000001	.0000002	.0000003	.0000007
22								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999005	.9999346	.9999577	.9999728	.9999826	.9999890	.9999930	.9999956
2	.9988281	.9991996	.9994571	.9996343	.9997552	.9998375	.9998928	.9999288
3	.9932920	.9951966	.9965870	.9975936	.9983164	.9988313	.9991951	.9994561
4	.9748388	.9811322	.9859718	.9896576	.9924303	.9945192	.9960605	.9971922
5	.9302426	.9453060	.9575064	.9672827	.9750354	.9811209	.9858501	.9894891
6	.8469969	.8741154	.8985482	.9185551	.9352272	.9489650	.9601614	.9691800
7	.7231283	.7633642	.8004193	.8338817	.8620585	.8860500	.9062256	.9226005
8	.5675292	.6179181	.6656120	.7101091	.7510541	.7882328	.8215585	.8510610
9	.4064883	.4582223	.5097987	.5604208	.6093671	.6560209	.6998790	.7405618
10	.2633410	.3085973	.3561199	.4051872	.4550414	.5049223	.5540988	.6014961
11	.1535944	.1876842	.2253877	.2663399	.3100688	.3559823	.4034598	.4519109
12	.0804304	.1027182	.1286817	.1583476	.1916284	.2283193	.2683019	.3105548
13	.0377513	.0504756	.0660877	.0848528	.1069733	.1328721	.1626797	.1964851
14	.0158646	.0223364	.0304705	.0408016	.0537773	.0694481	.0881814	.1100080
15	.0059634	.0087710	.0125922	.0176746	.0242893	.0327837	.0432707	.0560373
16	.0020030	.0030937	.0046871	.0068446	.0098361	.0138390	.0190903	.0258431
17	.0006005	.0009743	.0015388	.0023697	.0035637	.0052410	.0075476	.0106560
18	.0001602	.0002734	.0004833	.0007319	.0010884	.0015886	.0022796	.0032096
19	.0000380	.0000682	.0001188	.0002011	.0003317	.0005305	.0008308	.0012818
20	.0000080	.0000161	.0000276	.0000490	.0000847	.0001426	.0002346	.0003771
21	.0000015	.0000029	.0000056	.0000108	.0000191	.0000337	.0000579	.0000973
22	.0000002	.0000005	.0000010	.0000020	.0000038	.0000070	.0000124	.0000221
23		.0000001	.0000002	.0000003	.0000007	.0000013	.0000024	.0000044
24					.0000001	.0000002	.0000004	.0000007
25							.0000001	.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999973	.9999983	.9999990	.9999994	.9999996	.9999998	.9999999	.9999999
2	.9999644	.9999768	.9999858	.9999921	.9999955	.9999983	.9999991	.9999996
3	.9996273	.9997494	.9998389	.9999031	.9999476	.9999730	.9999867	.9999937

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 32$$

r	.33	.34	.35	.36	.37	.38	.39	.40
4	.9980159	.9986100	.9990346	.9993354	.9995466	.9996934	.9997946	.9998637
5	.9933810	.9943343	.9951181	.9957056	.9961242	.9964102	.9966031	.9967304
6	.9763912	.9782774	.9798207	.9809573	.9818092	.9824820	.9830115	.9834279
7	.9412150	.9436174	.9457501	.9476390	.9492864	.9507649	.9520179	.9530563
8	.8768628	.8799413	.8828087	.8854935	.8879236	.8900122	.8918664	.8934781
9	.7778133	.7814953	.7849767	.7881199	.7909447	.7934112	.7955841	.7974151
10	.6477184	.6516652	.6554409	.6588595	.6620423	.6649121	.6674930	.6698076
11	.5003423	.5041737	.5079658	.5116413	.5151018	.5183402	.5213400	.5240810
12	.3551658	.3588584	.3625081	.3660700	.3695067	.3727967	.3759188	.3788509
13	.2300323	.2328217	.2358171	.2389144	.2421094	.2453908	.2487391	.2521334
14	.1352125	.1376810	.1405565	.1438686	.1476309	.1518144	.1563114	.1610404
15	.0718308	.0733435	.0751392	.0773386	.0799801	.0831121	.0866530	.0904476
16	.0343693	.0349458	.0358449	.0373223	.0396036	.0426708	.0464494	.0507939
17	.0147650	.0150274	.0154967	.0163212	.0176350	.0194935	.0219664	.0250677
18	.0056771	.0058497	.0061218	.0065959	.0073529	.0084571	.0099769	.0119664
19	.0019470	.0020777	.0022748	.0025903	.0031005	.0038979	.0050106	.0064816
20	.0005933	.0006445	.0007325	.0008519	.0010422	.0013429	.0017906	.0023816
21	.0001509	.0001671	.0001952	.0002266	.0002813	.0003692	.0004982	.0006764
22	.0000329	.0000366	.0000435	.0000504	.0000633	.0000836	.0001133	.0001577
23	.0000058	.0000067	.0000081	.0000096	.0000123	.0000165	.0000228	.0000319
24	.0000008	.0000010	.0000013	.0000016	.0000021	.0000029	.0000041	.0000059
25	.0000001	.0000001	.0000002	.0000002	.0000003	.0000004	.0000006	.0000009
26		.0000000	.0000000	.0000000	.0000000	.0000000	.0000001	.0000001
27						.0000000	.0000000	.0000000

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999480	.9999693	.9999860	.9999938	.9999969	.9999989	1.0000000	1.0000000
3	.9999878	.9999924	.9999953	.9999971	.9999982	.9999989	.9999994	.9999996
4	.9999104	.9999417	.9999624	.9999760	.9999849	.9999906	.9999942	.9999964
5	.9995206	.9996757	.9997829	.9998561	.9999057	.9999388	.9999608	.9999751
6	.9980038	.9985973	.9990244	.9993235	.9995427	.9996920	.9997948	.9998649
7	.9932606	.9950029	.9964494	.9974628	.9982063	.9987457	.9991326	.9994070
8	.9810177	.9856306	.9892342	.9920183	.9941452	.9957610	.9969515	.9978371
9	.9544310	.9642405	.9722248	.9786499	.9837615	.9877818	.9908072	.9933066
10	.9051630	.9229356	.9380070	.9506399	.9611063	.9696771	.9766136	.9821615
11	.8264176	.8541416	.8786361	.9000218	.9184732	.9342053	.9474602	.9584953
12	.7169749	.7545088	.7890590	.8204791	.8487100	.8737719	.8957541	.9148039
13	.5938815	.6282500	.6708014	.7111080	.7488219	.7836813	.8155121	.8442255
14	.4415912	.4875904	.5335505	.5789011	.6230885	.6656139	.7060382	.7439958
15	.3073974	.3493559	.3930357	.4379263	.4834754	.5291179	.5742859	.6184333
16	.1954934	.2292350	.2658311	.3050054	.3464008	.3895868	.4340819	.4793487
17	.1128693	.1368143	.1638721	.1940409	.2273394	.2633019	.3014788	.3429388
18	.0588301	.0738256	.0914802	.1119832	.1354787	.1620524	.1917220	.2244289
19	.0275361	.0358154	.0459706	.0582549	.0729146	.0901777	.1102430	.1332674
20	.0115123	.0155341	.0206735	.0271491	.0351965	.0450634	.0570025	.0712628
21	.0043744	.0059878	.0082691	.0112629	.0151373	.0200834	.0263130	.0340601
22	.0014003	.0020377	.0029218	.0041303	.0057590	.0079238	.0107627	.0144366
23	.0004017	.0006075	.0009048	.0013282	.0019224	.0027448	.0038674	.0053797
24	.0001000	.0001572	.0002433	.0003710	.0005576	.0008266	.0012080	.0017448
25	.0000213	.0000349	.0000561	.0000889	.0001389	.0002138	.0003247	.0004865
26	.0000038	.0000065	.0000109	.0000180	.0000293	.0000468	.0000738	.0001149
27	.0000006	.0000010	.0000018	.0000030	.0000051	.0000085	.0000139	.0000225
28	.0000001	.0000001	.0000002	.0000004	.0000007	.0000012	.0000021	.0000036
29					.0000001	.0000001	.0000003	.0000004

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	.9999998	.9999999
4	.9999979	.9999987
5	.9999844	.9999903
6	.9999121	.9999435
7	.9995993	.9997325
8	.9984852	.9989488
9	.9951320	.9964990
10	.9865459	.9899692
11	.9675725	.9749483
12	.9311136	.9449079
13	.8698128	.8923364
14	.7798021	.8114572
15	.6610529	.7016926
16	.5248339	.5699750
17	.3857770	.4300250
18	.2600323	.2983074
19	.1593544	.1695428
20	.0880798	.1076636
21	.0435681	.0550921
22	.0191303	.0250512
23	.0073906	.0100308
24	.0024866	.0035002
25	.0007197	.0010512
26	.0001764	.0002675
27	.0000359	.0000585
28	.0000059	.0000097
29	.0000006	.0000013
30	.0000001	.0000001

$$B(n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.2832695	.4665945	.6340117	.7400136	.8159741	.8702166	.9000121	.9361739
2	.0430260	.1408316	.2604772	.3825322	.4963501	.5968430	.6823151	.7570207
3	.0043603	.0279295	.0756354	.1442113	.2271931	.3176530	.4095400	.4961990
4	.0003245	.0041202	.0165622	.0416009	.0808095	.1335064	.1973078	.2692287
5	.0000108	.0004759	.0028597	.0095352	.0230265	.0453511	.0777417	.1159069
6	.0000009	.0000445	.0004017	.0017860	.0053875	.0127149	.0253324	.0448884
7		.0000035	.0000470	.0002792	.0010551	.0029935	.0064671	.0140247
8		.0000002	.0000046	.0000370	.0001756	.0006001	.0016358	.0037741
9			.0000004	.0000042	.0000251	.0001136	.0003759	.0008772
10				.0000004	.0000031	.0000155	.0000582	.0001775
11					.0000003	.0000020	.0000090	.0000315
12						.0000002	.0000012	.0000049
13							.0000001	.0000007
14								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9554994	.9690960	.9786268	.9852793	.9899043	.9931064	.9953178	.9968289
2	.8102611	.8587853	.8914528	.9190362	.9401222	.9560231	.9680233	.9772856
3	.5804336	.6543425	.7190638	.7745056	.8211539	.8596142	.8906679	.9151690
4	.3455549	.4230563	.4988966	.5708493	.6375290	.6973540	.7504551	.7965008
5	.1713316	.2303179	.2940090	.3625642	.4313771	.4992456	.5644823	.6257609
6	.0713926	.1061086	.1485081	.1978297	.2538848	.3121945	.3741336	.4370649
7	.0258669	.0417038	.0641247	.0929986	.1284190	.1700936	.2173769	.2695370
8	.0076711	.0141018	.0233970	.0378602	.0566825	.0800674	.1106752	.1496211
9	.0020153	.0041344	.0077382	.0134239	.0218449	.0336506	.0494993	.0699321
10	.0004615	.0010580	.0021905	.0041677	.0073849	.0123118	.0194111	.0294376
11	.0000927	.0002377	.0005449	.0011384	.0021992	.0039737	.0067767	.0109853
12	.0000164	.0000472	.0001196	.0002746	.0005790	.0011349	.0022885	.0043653
13	.0000026	.0000083	.0000233	.0000587	.0001358	.0003076	.0007216	.0015709
14	.0000004	.0000013	.0000040	.0000114	.0000281	.0000768	.0002192	.0005238
15		.0000002	.0000006	.0000019	.0000052	.0000180	.0000602	.0001665
16			.0000001	.0000003	.0000009	.0000023	.0000058	.0000151
17					.0000001	.0000004	.0000010	.0000035
18						.0000001	.0000002	.0000010
19								.0000002

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9778641	.9865603	.9920450	.9953062	.9995015	.9997251	.9998204	.9998834
2	.9034276	.9401971	.9616525	.9941371	.9959104	.9971668	.9980506	.9986678
3	.7963177	.8517715	.8963081	.9732203	.9002964	.9856213	.9895919	.9925251
4	.6359877	.7091471	.7793507	.8170743	.8510012	.8807897	.9049545	.9234655
5	.4621737	.5311154	.5990450	.6709704	.7200698	.7643433	.8036628	.8380644
6	.2991500	.3599339	.4173928	.4995825	.5565322	.6110721	.6624133	.7099477
7	.1724985	.2182523	.2617880	.3343157	.3888584	.4443264	.4996750	.5539141
8	.0868208	.1231106	.1602607	.2000364	.2439935	.2914762	.3416920	.3937279
9	.0349741	.0626474	.0913763	.1067869	.1370208	.1717218	.2106095	.2532611
10	.0127187	.0298040	.0513763	.0481371	.0607879	.0806572	.1066386	.1467219
11	.0040317	.0123791	.0264984	.0508371	.0306589	.0428500	.0579464	.0764855
12	.0010310	.0045788	.0146347	.0215907	.0133745	.0191291	.0258085	.0355640
13	.0002001	.0013201	.0052324	.0081861	.0044372	.0068659	.0103015	.0150136
14	.0000338	.0002654	.0016697	.0027727	.0014230	.0021274	.0036029	.0056537
15	.0000133	.0000583	.0004759	.0008393	.0004081	.0007060	.0011772	.0019099
16	.0000299	.0000617	.0001212	.0002271	.0001046	.0001915	.0003375	.0005958
17	.0000060	.0000132	.0000275	.0000549	.0000240	.0000464	.0000864	.0001584
18	.0000011	.0000025	.0000056	.0000116	.0000049	.0000100	.0000197	.0000374
19	.0000002	.0000004	.0000010	.0000023	.0000009	.0000019	.0000040	.0000080
20		.0000001	.0000002	.0000004	.0000001	.0000003	.0000007	.0000015
21				.0000001	.0000001	.0000001	.0000001	.0000003
22								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999247	.9999516	.9999691	.9999804	.9999877	.9999923	.9999952	.9999970
2	.9990054	.9993907	.9995922	.9997290	.9998212	.9998829	.9999239	.9999503
3	.9946760	.9962374	.9973619	.9981650	.9987337	.9991333	.9994114	.9996016
4	.9794319	.9847890	.9888377	.9918797	.9941437	.9958129	.9970122	.9978947
5	.9413916	.9546208	.9651920	.9735477	.9800825	.9851404	.9890153	.9919554
6	.8678063	.8931430	.9144662	.9321988	.9467716	.9586118	.9681249	.9756850
7	.7533455	.7923415	.8269141	.8571583	.8832774	.9055545	.9243257	.9399568
8	.6061790	.6557341	.7020099	.7445975	.7832454	.8178476	.8484852	.8751057
9	.4467406	.4997432	.5518683	.6023331	.6504563	.6956643	.7375996	.7759816
10	.2991278	.3474998	.3976132	.4486524	.4997956	.5502519	.5992906	.6462691
11	.1810318	.2191216	.2606854	.3052172	.3521061	.4006643	.4501575	.4998381
12	.0987215	.1248094	.1547923	.1885855	.2259742	.2666102	.3100627	.3557563
13	.0484211	.0640587	.0829881	.1054314	.1315233	.1612963	.1945706	.2311450
14	.0213362	.0295786	.0400871	.0531935	.0692041	.0883811	.1109245	.1369554
15	.0084367	.0122720	.0174193	.0241725	.0328408	.0437392	.0571744	.0734894
16	.0029931	.0045698	.0067996	.0098773	.0140275	.0195050	.0264862	.0355629
17	.0009510	.0015253	.0023808	.0036227	.0053827	.0078207	.0111258	.0155159
18	.0002703	.0004556	.0007464	.0011905	.0018517	.0028131	.0041799	.0060021
19	.0000686	.0001216	.0002091	.0003497	.0005697	.0008654	.0012860	.0018359
20	.0000155	.0000289	.0000522	.0000915	.0001563	.0002600	.0003881	.0005598
21	.0000031	.0000061	.0000116	.0000213	.0000381	.0000664	.0001127	.0001868
22	.0000006	.0000011	.0000023	.0000044	.0000083	.0000150	.0000266	.0000461
23	.0000001	.0000002	.0000004	.0000008	.0000016	.0000030	.0000055	.0000100
24			.0000001	.0000001	.0000003	.0000005	.0000010	.0000019
25						.0000001	.0000002	.0000003

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999980	.9999989	.9999993	.9999996	.9999998	.9999999	.9999999	1.0000000
2	.9999685	.9999800	.9999874	.9999931	.9999951	.9999970	.9999982	.9999999

X	.33	.34	.35	.36	.37	.38	.39	.40
1	.9997352	.9998246	.9998848	.9999250	.9999516	.9999691	.9999804	.9999877
2	.9985477	.9990974	.9993140	.9995349	.9996876	.9997921	.9998629	.9999105
3	.9941607	.9958013	.9970089	.9978892	.9985245	.9989784	.9992996	.9995245
4	.9815205	.9862516	.9898098	.9925199	.9945625	.9960861	.9971107	.9980321
5	.9528831	.9632914	.9717198	.9784256	.9837539	.9878134	.9908782	.9933689
6	.8980990	.9176741	.9341482	.9478459	.9591057	.9682562	.9756085	.9814493
7	.8134997	.8413017	.8663979	.8891424	.9121545	.9298997	.9436724	.9555803
8	.6906497	.7320114	.7700534	.8045932	.8358506	.8629758	.8869558	.9076746
9	.5460914	.5964888	.6429621	.6866710	.7275948	.7654155	.7999269	.8310255
10	.4030740	.4511436	.4990733	.5479802	.5950159	.6403896	.6835865	.7241814
11	.2713254	.3130842	.3506169	.4049544	.4522656	.4999035	.5478204	.5935941
12	.1665030	.1994949	.2357327	.2749935	.3168358	.3600117	.4043832	.4499616
13	.0927467	.1153123	.1412401	.1705606	.2032099	.2390264	.2777497	.3190259
14	.0467316	.0603810	.0767779	.0961528	.1186819	.1444700	.1735776	.2059246
15	.0212344	.0285458	.0377286	.0490656	.0628330	.0792671	.0986506	.1210987
16	.0086761	.0131459	.0187020	.0225794	.0300328	.0393307	.0507465	.0645481
17	.0031770	.0046162	.0066380	.0093363	.0129097	.0175624	.0235222	.0310546
18	.0010400	.0015020	.0023598	.0034553	.0049703	.0070293	.0097809	.0133990
19	.0003088	.0004806	.0007473	.0011397	.0017064	.0025103	.0036311	.0051681
20	.0000781	.0001294	.0002098	.0003333	.0005197	.0007957	.0011971	.0017718
21	.0000177	.0000307	.0000519	.0000860	.0001396	.0002225	.0003483	.0005360
22	.0000035	.0000064	.0000112	.0000194	.0000328	.0000545	.0000888	.0001421
23	.0000006	.0000011	.0000021	.0000038	.0000067	.0000116	.0000196	.0000327
24	.0000001	.0000002	.0000003	.0000006	.0000012	.0000021	.0000037	.0000065
25				.0000001	.0000002	.0000003	.0000006	.0000011
26							.0000001	.0000001

X	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999993	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000
3	.9999884	.9999953	.9999971	.9999983	.9999990	.9999994	.9999996	.9999998
4	.9999421	.9999630	.9999765	.9999853	.9999909	.9999944	.9999966	.9999980
5	.9996805	.9997874	.9998601	.9999 [illegible]	.9999413	.9999628	.9999765	.9999854
6	.9986257	.9990502	.9993505	.9995606	.9997060	.9998055	.9998728	.9999178
7	.9952053	.9965590	.9975566	.9982337	.9988077	.9991810	.9994439	.9996268
8	.9860373	.9896006	.9923367	.9944139	.9959727	.9971290	.9979766	.9985907
9	.9653316	.9732243	.9795308	.9845319	.9884342	.9914.00	.9937480	.9954823
10	.9253625	.9402837	.9527206	.9629643	.9713011	.9780052	.9833316	.9875121
11	.8587032	.8830351	.9041656	.9222937	.9376501	.9505223	.9611603	.9698551
12	.7618464	.7963546	.8275771	.8554779	.8801035	.9015712	.9200560	.9357758
13	.6384496	.6812787	.7216522	.7592313	.7937715	.8252239	.8532358	.8781031
14	.4999307	.5466674	.5925696	.6370721	.6796685	.7199242	.7574209	.7921061
15	.3624169	.4074144	.4534580	.4999547	.5463013	.5919061	.6362095	.6787033
16	.2413740	.2796850	.3205291	.3634902	.4080044	.4537732	.4999777	.5461093
17	.1467452	.1756310	.2077145	.2428653	.2808620	.3213939	.3640678	.4084156
18	.0809862	.1002809	.1226087	.1480806	.1767710	.2066772	.2435427	.2813137
19	.0403667	.0517798	.0655397	.0810954	.1010604	.1232401	.1485381	.1770249
20	.0180821	.0240523	.0315513	.0408357	.0521696	.0658160	.0820255	.1010856
21	.0073420	.0099973	.0136030	.0182528	.0241639	.0315748	.0407375	.0519174
22	.0027787	.0036968	.0052211	.0072686	.0099792	.0135172	.0180717	.0238559
23	.0008111	.0012081	.0017721	.0025611	.0036489	.0051271	.0071082	.0097270
24	.0002237	.0003463	.0005277	.0007922	.0011718	.0017089	.0024583	.0034895
25	.0000536	.0000862	.0001366	.0002130	.0003273	.0004957	.0007402	.0010905
26	.0000110	.0000184	.0000304	.0000492	.0000786	.0001236	.0001917	.0002933
27	.0000019	.0000033	.0000057	.0000096	.0000160	.0000261	.0000421	.0000668
28	.0000003	.0000005	.0000009	.0000016	.0000027	.0000046	.0000077	.0000127
29		.0000001	.0000001	.0000002	.0000004	.0000008	.0000011	.0000019
30						.0000001	.0000001	.0000002

X	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	.9999999	.9999999
4	.9999988	.9999993
5	.9999910	.9999945
6	.9999475	.9999669
7	.9997526	.9998380
8	.9990301	.9993406
9	.9967740	.9977243
10	.9909531	.9932345
11	.9768695	.9824590
12	.9489785	.9599283
13	.8998502	.9186222
14	.8236013	.8518968
15	.7199460	.7565749
16	.5915812	.6358338
17	.4539149	.5000000
18	.3216472	.3641662
19	.2086865	.2434251
20	.1230043	.1481032
21	.0653788	.0813778
22	.0311049	.0400717
23	.0131431	.0175410
24	.0048096	.0067655
25	.0015854	.0022757
26	.0004436	.0006594
27	.0001048	.0001620
28	.0000206	.0000331
29	.0000033	.0000055
30	.0000004	.0000007
31		.0000001

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.2894468	.4960626	.6449913	.7501130	.8231754	.8780036	.9151952	.9412800
2	.0454104	.1477469	.2716832	.3961315	.5123313	.6142454	.6981686	.7667930
3	.0047470	.0301875	.0811807	.1537442	.2406510	.3344044	.4286142	.5185047
4	.0003640	.0045964	.0183344	.0457053	.0881207	.1445552	.2128344	.2975463
5	.0000218	.0005480	.0032708	.0108178	.0259156	.0536424	.0960009	.1318488
6	.0000011	.0000532	.0004755	.0020959	.0067694	.0146731	.0280924	.0506118
7		.0000043	.0000576	.0003394	.0013717	.0035768	.0082527	.0164497
8		.0000003	.0000059	.0000467	.0002195	.0007437	.0020085	.0045948
9			.0000005	.0000055	.0000326	.0001333	.0004282	.0011090
10				.0000006	.0000042	.0000208	.0000773	.0002335
11				.0000001	.0000005	.0000028	.0000124	.0000471
12						.0000003	.0000018	.0000076
13							.0000002	.0000010
14								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9595044	.9721872	.9809778	.9870458	.9913168	.9940715	.9960167	.9973362
2	.8233326	.8671164	.9010419	.9269854	.9465939	.9612577	.9722169	.9800058
3	.6011181	.6744866	.7380356	.7918494	.8365754	.8731185	.9025268	.9258676
4	.3666940	.4461850	.5231150	.5952881	.6612203	.7200705	.7715320	.8157113
5	.1870117	.2495917	.3172507	.3875584	.4581510	.5269008	.5933782	.6530996
6	.0803871	.1185296	.1646018	.2175979	.2760088	.3383016	.4026859	.4672544
7	.0294182	.0481443	.0737069	.1055784	.1444995	.1899077	.2409895	.2961651
8	.0092547	.0160620	.0283221	.0444768	.0660002	.0933591	.1265803	.1658088
9	.0025243	.0051311	.0095156	.0163562	.0261738	.0402635	.0586507	.0820084
10	.0006013	.0013657	.0028007	.0055784	.0098647	.0153021	.0239810	.0358960
11	.0001259	.0003197	.0007259	.0015015	.0030733	.0057413	.0096820	.0159377
12	.0000233	.0000661	.0001664	.0003783	.0007997	.0015323	.0027915	.0048121
13	.0000038	.0000121	.0000339	.0000846	.0001929	.0004062	.0007991	.0014006
14	.0000006	.0000020	.0000061	.0000169	.0000430	.0000960	.0002041	.0004067
15	.0000001	.0000003	.0000010	.0000030	.0000089	.0000203	.0000466	.0000999
16			.0000001	.0000005	.0000014	.0000038	.0000095	.0000219
17				.0000001	.0000002	.0000006	.0000017	.0000043
18						.0000001	.0000003	.0000008
19								.0000001

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.9982372	.9988260	.9992264	.9994929	.9996694	.9997856	.9998617	.9999114
2	.9858818	.9900639	.9930571	.9951829	.9966313	.9977296	.9984576	.9990596
3	.9441604	.9583280	.9691795	.9774041	.9835754	.9881613	.9915374	.9940003
4	.8530098	.8840195	.9094364	.9299240	.9461142	.9593746	.9694885	.9772953
5	.7083221	.7576044	.8008293	.8381369	.8698575	.8964497	.9184466	.9364120
6	.5305130	.5911065	.6479748	.7003512	.7477544	.7899615	.8269690	.8589486
7	.3544853	.4144562	.4746769	.5338601	.5908751	.6447917	.6949007	.7407157
8	.2102770	.2593487	.3120763	.3671691	.4240668	.4810104	.5371048	.5913605
9	.1105881	.1444368	.1833509	.2268922	.2744143	.3251032	.3780281	.4321959
10	.0516021	.0715658	.0961213	.1254360	.1594914	.1980678	.2407584	.2869858
11	.0213985	.0315756	.0449682	.0620271	.0831185	.1084914	.1382519	.1723462
12	.0079011	.0124229	.0187888	.0274400	.0388240	.0533676	.0714471	.0933601
13	.0026025	.0043647	.0070188	.0108670	.0162562	.0235677	.0332007	.0455527
14	.0007659	.0013712	.0023466	.0038554	.0061040	.0093437	.0138673	.0200036
15	.0002016	.0003856	.0007027	.0012260	.0020560	.0033358	.0052050	.0079017
16	.0000475	.0000971	.0001885	.0003495	.0006213	.0010627	.0017550	.0028061
17	.0000100	.0000219	.0000453	.0000893	.0001684	.0003047	.0005313	.0008952
18	.0000019	.0000044	.0000098	.0000205	.0000409	.0000783	.0001443	.0002563
19	.0000003	.0000008	.0000019	.0000043	.0000089	.0000180	.0000351	.0000658
20		.0000001	.0000003	.0000008	.0000017	.0000037	.0000076	.0000151
21				.0000001	.0000003	.0000007	.0000015	.0000031
22						.0000001	.0000003	.0000006
23								.0000001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999435	.9999642	.9999775	.9999859	.9999912	.9999946	.9999967	.9999980
2	.9993031	.9995365	.9996940	.9997994	.9998695	.9999157	.9999460	.9999657
3	.9957810	.9970573	.9979641	.9986029	.9990491	.9993581	.9995703	.9997147
4	.9832579	.9877650	.9911393	.9936396	.9954748	.9968090	.9977798	.9984552
5	.9509067	.9624645	.9715763	.9786007	.9841603	.9883422	.9915 [illegible]	.9938615
6	.8862041	.9091272	.9281627	.9437765	.9564317	.9665704	.97[illegible]	.9808911
7	.7819612	.8185499	.8505333	.8701696	.9014907	.9214717	.9378[illegible]	.9513898
8	.6439706	.6912520	.7357341	.7761145	.8122546	.8441596	.871[illegible]	.8950580
9	.4866062	.5403008	.5934066	.6421621	.6899651	.7323333	.771[illegible]	.8076605
10	.3360330	.3870831	.4392621	.4916[illegible]	.5438074	.5938016	.6421[illegible]	.6875[illegible]
11	.2105554	.2525000	.2976559	.3451[illegible]	.3949362	.4455406	.4953888	.5466960
12	.1192989	.1493306	.1833834	.2211[illegible]	.2625505	.3053320	.3514921	.4010625
13	.0609962	.0798539	.1023752	.1280[illegible]	.1589141	.1928938	.2304423	.2712283
14	.0281074	.0385434	.0516704	.0678203	.0872767	.1102557	.1368858	.1672938
15	.0116631	.0167717	.0235396	.0322948	.0433062	.0571[illegible]	.0738369	.0937547
16	.0043545	.0065733	.0096669	.0138707	.0194834	.0268[illegible]	.0360685	.0476803
17	.0014615	.0023169	.0035736	.0053735	.0078897	.011[illegible]	.0159185	.0213310
18	.0004404	.0007337	.0011877	.0018711	.0029757	.004[illegible]	.0068321	.0093103
19	.0001190	.0002094	.0003548	.0005851	.0009[illegible]	.001[illegible]	.0029259	.0039915
20	.0000288	.0000630	.0000946	.0001638	.00[illegible]2	.00[illegible]	.0007271	.0011393
21	.0000062	.0000180	.0000325	.0000[illegible]	.00[illegible]4	[illegible]1245	.0000966	.0001[illegible]
22	.0000012	.0000044	.0000118	.0000[illegible]	.00[illegible]9	[illegible]0304	.0000333	.0000[illegible]
23	.0000002	.0000004	.0000009	.0000[illegible]	.00[illegible]5	[illegible]00066	[illegible]00121	.0000[illegible]
24		.0000001	.0000001	.0000[illegible]	.00[illegible]6	[illegible]0000013	[illegible]000024	.0000[illegible]
25					.00[illegible]1	[illegible]0000002	[illegible]3000004	.0000[illegible]
26							.0000004	.0000001

	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999988	.9999993	.9999996	.9999997	.9999998	.9999999	.9999999	1.0000000
2	.9999783	.9999864	.9999916	.9999948	.9999968	.9999981	.9999989	.9999993
3	.9998122	.9998775	.9999207	.9999492	.9999677	.9999797	.9999873	.9999922
4	.9981306	.9992747	.9995138	.9996754	.9997853	.9998593	.9999087	.9999414
5	.9956084	.9986880	.9978157	.9974816	.9984548	.9992876	.9995193	.9996789
6	.9857641	.9904985	.9923245	.9944528	.9960284	.9971882	.9980253	.9986291
7	.9633289	.9710994	.9780513	.9874995	.9877216	.9909570	.9934088	.9952462
8	.9161580	.9331863	.9478983	.9588546	.9682070	.9756880	.9816027	.9862252
9	.8394074	.8672691	.8914105	.9120676	.9295264	.9441032	.9561275	.9659279
10	.7302002	.7691701	.8044740	.8360389	.8638991	.8881789	.9090749	.9268369
11	.5957286	.6438305	.6874441	.7271235	.7675414	.8024884	.8338679	.8616852
12	.4512218	.5008290	.5499544	.5979092	.6440701	.6878995	.7289593	.7669190
13	.3148031	.3606204	.4080580	.4564437	.5050832	.5532882	.6004032	.6458290
14	.2010947	.2381872	.2787559	.3217794	.3669448	.4136666	.4613097	.5092146
15	.1170863	.1439344	.1743196	.2081564	.2452515	.2853048	.3279168	.3726002
16	.0619166	.0790576	.0993397	.1229392	.1499572	.1804070	.2142047	.2511651
17	.0296485	.0393698	.0513948	.0660168	.0834971	.1040600	.1278722	.1550291
18	.0128203	.0177219	.0240613	.0321144	.0481689	.0545141	.0694291	.0871683
19	.0049923	.0071895	.0101604	.0141038	.0192452	.0258344	.0341397	.0444412
20	.0017455	.0026204	.0038572	.0055725	.0079079	.0110319	.0151400	.0204540
21	.0005461	.0008551	.0013117	.0019733	.0029141	.0042275	.0060296	.0084604
22	.0001523	.0002488	.0003979	.0006236	.0009588	.0014473	.0021464	.0031299
23	.0000377	.0000642	.0001071	.0001750	.0003003	.0004403	.0006794	.0010301
24	.0000083	.0000146	.0000255	.0000434	.0000733	.0001183	.0001900	.0002997
25	.0000016	.0000029	.0000053	.0000094	.0000164	.0000279	.0000466	.0000765
26	.0000003	.0000005	.0000010	.0000018	.0000032	.0000057	.0000099	.0000170
27		.0000001	.0000001	.0000003	.0000005	.0000010	.0000018	.0000032
28					.0000001	.0000001	.0000003	.0000005
29								.0000001

X	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999952	.9999971	.9999983	.9999990	.9999994	.9999997	.9999998	.9999999
4	.9999627	.9999765	.9999854	.9999910	.9999945	.9999967	.9999980	.9999988
5	.9997877	.9998612	.9999102	.9999425	.9999636	.9999770	.9999859	.9999914
6	.9990582	.9995509	.9995696	.9997139	.9998119	.9998778	.9999215	.9999502
7	.9966377	.9976053	.9983280	.9988456	.9992119	.9994603	.9996455	.9997665
8	.9907962	.9925231	.9945017	.9961166	.9972484	.9980729	.9986662	.9990880
9	.9778209	.9801021	.9850419	.9888800	.9918265	.9940612	.9957355	.9969741
10	.9417500	.9541198	.9642524	.9724540	.9790110	.9841889	.9882873	.9913378
11	.8860377	.9070795	.9250443	.9401888	.9527975	.9631645	.9715819	.9783305
12	.8015577	.8327664	.8605102	.8848769	.9060031	.9240887	.9393759	.9521339
13	.6890424	.7296106	.7671999	.8015798	.8326209	.8602892	.8846360	.9057860
14	.5567233	.6032042	.6480751	.6908221	.7310149	.7693160	.8054863	.8333847
15	.4187071	.4659007	.5132759	.5602863	.6063165	.6507947	.6933118	.7331366
16	.2910211	.3333418	.3776885	.4235345	.4702820	.5173134	.5640066	.6097545
17	.1885430	.2193346	.2562347	.2959402	.3381121	.3822879	.4279451	.4745086
18	.1179474	.1390280	.1662042	.1997804	.2396119	.2864999	.3401892	.3423226
19	.0710207	.0721053	.0990794	.1110204	.1351346	.1625181	.1931903	.2270835
20	.0279188	.0356978	.0461663	.0589019	.0741741	.0922310	.1132864	.1375050
21	.0116864	.0159004	.0213207	.0281893	.0367665	.0471254	.0601428	.0754891
22	.0044006	.0063410	.0088253	.0121017	.0163624	.0218234	.0287246	.0373254
23	.0015308	.0022514	.0032552	.0046324	.0064976	.0089866	.0122610	.0165089
24	.0004447	.0007083	.0010628	.0015705	.0022865	.0032813	.0046438	.0064835
25	.0001231	.0001955	.0003048	.0004679	.0007073	.0010538	.0015477	.0022420
26	.0000283	.0000469	.0000760	.0001213	.0001905	.0002948	.0004495	.0006759
27	.0000056	.0000097	.0000163	.0000271	.0000442	.0000710	.0001124	.0001755
28	.0000009	.0000017	.0000030	.0000051	.0000087	.0000145	.0000238	.0000387
29	.0000001	.0000002	.0000004	.0000008	.0000014	.0000025	.0000042	.0000071
30			.0000001	.0000001	.0000002	.0000003	.0000006	.0000010
31							.0000001	.0000001

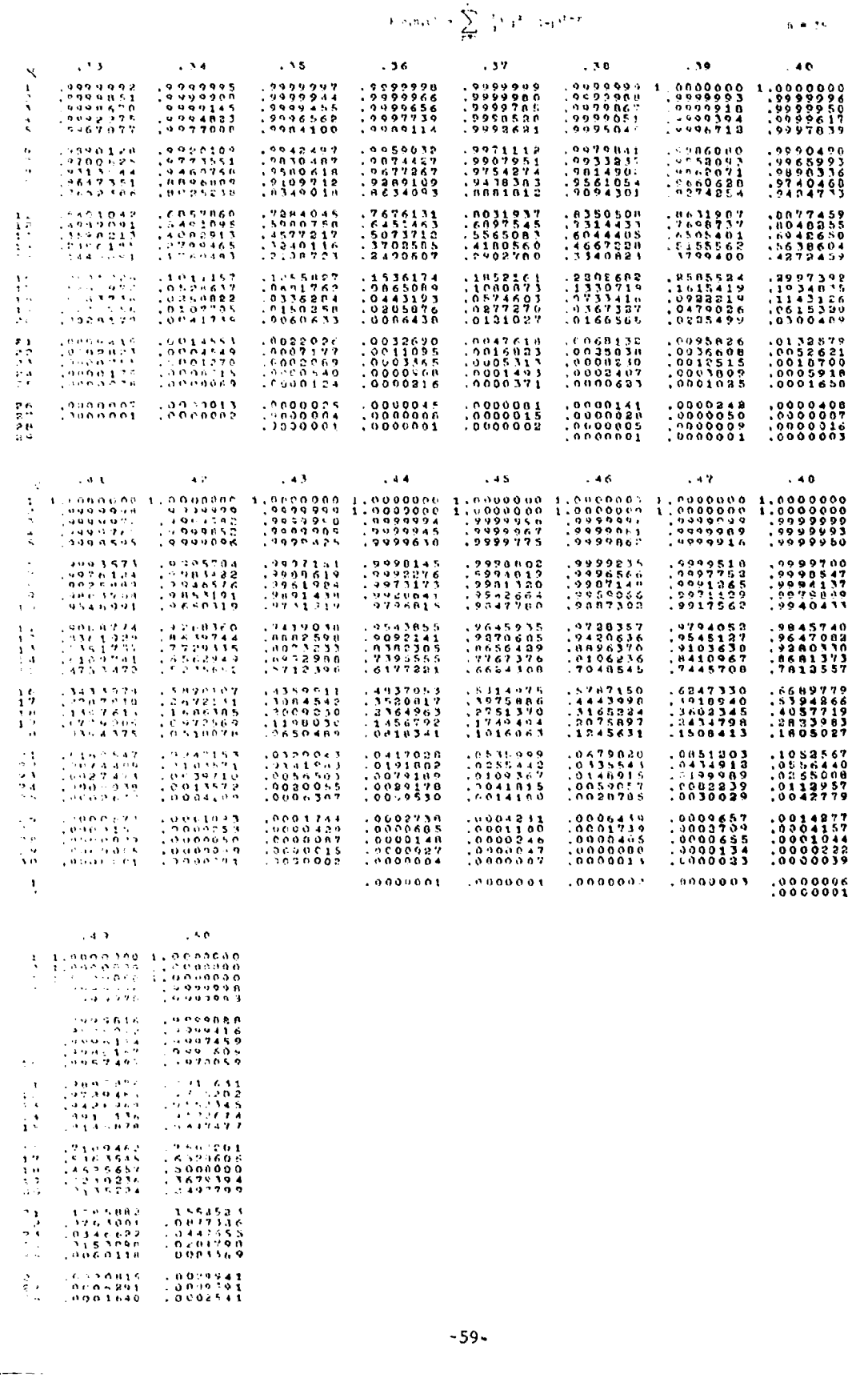
X	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	.9999999	1.0000000
4	.9999991	.9999996
5	.9999948	.9999969
6	.9999688	.9999807
7	.9998481	.9999024
8	.9993841	.9995893
9	.9978795	.9985325
10	.9941794	.9954794
11	.9847724	.9878467
12	.9666450	.9711937
13	.9319230	.9398753
14	.8609633	.8852895
15	.7702871	.8042358
16	.6419900	.6968043
17	.5213714	.5679169
18	.3844583	.4388831
19	.2840373	.3037957
20	.1849886	.1987648
21	.0936183	.1147408
22	.0478991	.0607847
23	.0219443	.0280063
24	.0089338	.0111833
25	.0033045	.0040806
26	.0010886	.0014678
27	.0003703	.0004107
28	.0000618	.0000976
29	.0000118	.0000193
30	.0000018	.0000031
31	.0000003	.0000004

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.2965523	.5069254	.6556416	.7603965	.8339166	.8853514	.9211316	.9459776
2	.0478587	.1547292	.2828825	.4109747	.5279735	.6291309	.7133569	.7815616
3	.0051537	.0325307	.0866957	.1634676	.2542350	.3511349	.4475015	.5385110
4	.0004087	.0051088	.0202198	.0500269	.0955548	.1559462	.2373020	.3060004
5	.0000253	.0006297	.0037227	.0122133	.0290263	.0583754	.0940373	.1445025
6	.0000013	.0000631	.0005593	.0024448	.0072517	.0160311	.0329030	.0571196
7	.0000001	.0000053	.0000701	.0004097	.0015216	.0048485	.0099044	.0192011
8		.0000004	.0000075	.0000584	.0002721	.0009137	.0024456	.0056442
9			.0000007	.0000072	.0000420	.0001700	.0005333	.0013878
10			.0000001	.0000008	.0000056	.0000275	.0001015	.0003035
11				.0000001	.0000007	.0000039	.0000170	.0000804
12					.0000001	.0000005	.0000026	.0000099
13						.0000001	.0000003	.0000015
14								.0000002

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9631490	.9749684	.9830703	.9886003	.9923506	.9949015	.9966142	.9977621
2	.1355801	.1776235	.2090349	.2341926	.2529949	.2658516	.2757010	.2830454
3	.0211174	.0337497	.0559583	.0800657	.1050778	.1295580	.1524680	.1732524
4	.0027921	.0060151	.0146753	.0308754	.0568164	.0944978	.1429021	.2013793
5	.0031831	.0092510	.0339029	.0824860	.1484500	.2440134	.3619253	.5071175
6	.0009833	.0023358	.0103935	.0337931	.0997569	.2647855	.4311387	.6096924
7	.0340054	.0551928	.0934303	.1190207	.1616931	.2107629	.2651590	.3235399
8	.0110694	.0199902	.0332814	.0518090	.0762251	.1068871	.1438117	.1906655
9	.0031300	.0063042	.0115044	.0197307	.0315253	.0477021	.0680619	.0954164
10	.0007744	.0017422	.0035394	.0066078	.0114089	.0187970	.0291026	.0432939
11	.0001606	.0004243	.0009541	.0019551	.0037042	.0065639	.0109760	.0174510
12	.0000325	.0000915	.0002275	.0005131	.0010605	.0020376	.0036250	.0062722
13	.0000056	.0000175	.0000484	.0001199	.0002705	.0005639	.0010979	.0020536
14	.0000008	.0000030	.0000092	.0000250	.0000616	.0001394	.0002933	.0006785
15	.0000001	.0000005	.0000016	.0000047	.0000126	.0000309	.0000702	.0001690
16		.0000001	.0000002	.0000008	.0000023	.0000061	.0000151	.0000344
17				.0000001	.0000004	.0000011	.0000029	.0000071
18					.0000001	.0000002	.0000005	.0000013
19							.0000001	.0000002

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.9985286	.9990373	.9993734	.9995944	.9997308	.9998328	.9998935	.9999328
2	.9078005	.9216411	.9342293	.9460448	.9573008	.9681019	.9780706	.9871950
3	.9513530	.9640404	.9737163	.9809599	.9863376	.9902663	.9931900	.9953408
4	.8685058	.8873953	.9207076	.9494760	.9548190	.9657076	.9745597	.9813045
5	.7329190	.7803891	.8214646	.8565003	.8859344	.9102933	.9301852	.9462965
6	.5607406	.6210761	.6770172	.7279003	.7733961	.8133089	.8480049	.8775400
7	.3844133	.4462533	.5076035	.5671583	.6238198	.6767391	.7252764	.7696918
8	.2347931	.2872661	.3429704	.4006673	.4590965	.5170483	.5733919	.6275118
9	.1275352	.1651229	.2078007	.2548036	.3058413	.3594080	.4146157	.4703973
10	.0616297	.0846825	.1126949	.1457279	.1836252	.2260156	.2725365	.3224555
11	.0265331	.0387738	.0546073	.0747090	.0991568	.1281983	.1618204	.1998507
12	.0101957	.0158702	.0237629	.0343574	.0481258	.0654945	.0868128	.1123491
13	.0035032	.0058152	.0092551	.0141016	.0209955	.0301337	.0419074	.0570011
14	.0010781	.0019101	.0032343	.0052577	.0082360	.0124730	.0183140	.0261356
15	.0002975	.0005630	.0010150	.0017519	.0029061	.0046498	.0071977	.0108067
16	.0000737	.0001490	.0002862	.0005248	.0009226	.0015606	.0025405	.0040281
17	.0000164	.0000354	.0000735	.0001414	.0002635	.0004715	.0008120	.0013519
18	.0000033	.0000076	.0000165	.0000342	.0000677	.0001301	.0002337	.0004057
19	.0000006	.0000015	.0000034	.0000074	.0000156	.0000313	.0000634	.0001125
20	.0000001	.0000003	.0000006	.0000015	.0000032	.0000069	.0000139	.0000273
21			.0000001	.0000003	.0000006	.0000013	.0000026	.0000060
22					.0000001	.0000002	.0000005	.0000012
23							.0000001	.0000002

N	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999576	.9999735	.9999835	.9999898	.9999938	.9999962	.9999977	.9999986
2	.9944632	.9964477	.9977705	.9986516	.9992080	.9995554	.9997717	.9999060
3	.9966615	.9977019	.9984112	.9988379	.9990870	.9992554	.9993660	.9994350
4	.9863887	.9901814	.9929620	.9950093	.9965113	.9975737	.9983279	.9988503
5	.9589945	.9690428	.9768583	.9828698	.9874415	.9908822	.9934440	.9953315
6	.9023798	.9229949	.9398844	.9535497	.9644730	.9731019	.9798398	.9850416
7	.8080219	.8421000	.8715075	.8965396	.9173656	.9350013	.9492797	.9606303
8	.6777182	.7243495	.7667553	.8046899	.8381911	.8673533	.8923986	.9136208
9	.5256973	.5795489	.6311350	.6796124	.7247191	.7668014	.8058552	.8418837
10	.3736763	.4269197	.4804113	.5338186	.5856759	.6354271	.6824011	.7261967
11	.2417248	.2874916	.3356896	.3863442	.4380160	.4900429	.5421598	.5940358
12	.1431130	.1761546	.2142370	.2560006	.3009437	.3488444	.3997900	.4533092
13	.0755719	.0979178	.1242474	.1546222	.1889692	.2270746	.2685876	.3130412
14	.0363296	.0492842	.0653607	.0850706	.1080515	.1350468	.1658803	.2000448
15	.0157742	.0224324	.0313349	.0427445	.0561144	.0730690	.0933821	.1172579
16	.0061816	.0092242	.0134125	.0190370	.0264152	.0358822	.0477767	.0624250
17	.0021847	.0034233	.0052110	.0077555	.0112519	.0159608	.0221681	.0301707
18	.0006957	.0011453	.0018330	.0028522	.0043297	.0064185	.0093046	.0132065
19	.0001993	.0003450	.0005792	.0009453	.0015024	.0023290	.0035267	.0052214
20	.0000513	.0000934	.0001646	.0002818	.0004691	.0007609	.0012041	.0018620
21	.0000118	.0000237	.0000420	.0000754	.0001315	.0002232	.0003693	.0005966
22	.0000024	.0000049	.0000096	.0000180	.0000330	.0000586	.0001014	.0001713
23	.0000004	.0000010	.0000019	.0000038	.0000074	.0000137	.0000249	.0000439
24	.0000001	.0000002	.0000004	.0000007	.0000015	.0000029	.0000054	.0000100
25			.0000001	.0000001	.0000003	.0000005	.0000010	.0000020
26						.0000001	.0000002	.0000004
27								.0000001



$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

$n = 35$

$\frac{c}{r}$	.49	.50
29	.0000363	.0000584
30	.0000067	.0000118
31	.0000010	.0000017
32	.0000001	.0000002

$$P(c;n,p) = \sum_{x=0}^{c} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 30

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.3635060	.5167869	.6659723	.7699806	.8433208	.8933040	.9266524	.9502994
2	.0503456	.1617731	.2940663	.4249516	.5432707	.6445025	.7279039	.7947148
3	.0055888	.0349825	.0937753	.1733679	.2679819	.3678146	.4661116	.5579558
4	.0004569	.0056568	.0222201	.0545645	.1036788	.1676575	.2427906	.3246880
5	.0000291	.0007193	.0042176	.0137259	.0328697	.0622556	.1041154	.1572406
6	.0000015	.0000744	.0006542	.0028355	.0083404	.0191978	.0373188	.0640859
7	.0000001	.0000064	.0000548	.0004911	.0019001	.0049979	.0113339	.0233338
8		.0000005	.0000093	.0000725	.0003346	.0011134	.0029537	.0066368
9			.0000009	.0000092	.0000535	.0002146	.0006671	.0017203
10			.0000001	.0000010	.0000075	.0000361	.0001317	.0003903
11				.0000001	.0000009	.0000053	.0000229	.0000780
12					.0000001	.0000007	.0000035	.0000138
13						.0000001	.0000005	.0000022
14							.0000001	.0000003

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9664656	.9774716	.9849305	.9899603	.9933580	.9956153	.9971281	.9981804
2	.8470685	.8973580	.9178908	.9407215	.9575901	.9699106	.9780387	.9852381
3	.6404197	.7181371	.7728047	.8232010	.8640750	.8967131	.9223754	.9422709
4	.4097214	.4914886	.5667676	.6415783	.7059014	.7636517	.8094407	.8492283
5	.2197979	.3092274	.3826566	.4372527	.5104806	.5803611	.6450407	.7037925
6	.1001713	.1453973	.1908295	.2509323	.3237800	.3912774	.4523565	.5261324
7	.0390434	.0628281	.0942133	.1332974	.1796414	.2333860	.2900561	.3513923
8	.0131337	.0235095	.0378987	.0598744	.0873359	.1214297	.1680130	.2085657
9	.0038446	.0076728	.0139710	.0235001	.0373371	.0559800	.0801044	.1100163
10	.0009864	.0021984	.0044243	.0081025	.0140997	.0220444	.0351345	.0516167
11	.0002232	.0005561	.0012385	.0025134	.0047162	.0082766	.0137077	.0215827
12	.0000447	.0001248	.0003078	.0006868	.0014043	.0026712	.0047703	.0080606
13	.0000080	.0000249	.0000682	.0001671	.0003738	.0007708	.0014845	.0028950
14	.0000013	.0000044	.0000135	.0000364	.0000887	.0001909	.0004140	.0009081
15	.0000002	.0000007	.0000024	.0000071	.0000199	.0000461	.0001037	.0002877
16		.0000001	.0000004	.0000012	.0000036	.0000096	.0000233	.0000727
17			.0000001	.0000002	.0000006	.0000018	.0000047	.0000175
18					.0000001	.0000003	.0000009	.0000033
19							.0000001	.0000004
20								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9987787	.9993106	.9994935	.9996755	.9997937	.9998696	.9999180	.9999488
2	.9897737	.9929724	.9952067	.9967548	.9978191	.9985451	.9990366	.9993667
3	.9574967	.9690085	.9776137	.9839769	.9886337	.9920077	.9944209	.9961499
4	.8825785	.9093912	.9308440	.9477728	.9609611	.9711105	.9788307	.9846371
5	.7559687	.8014256	.8403360	.8731018	.9003740	.9224844	.9403921	.9546433
6	.5900100	.6497470	.7044600	.7536283	.7970291	.8347079	.8669097	.8940241
7	.4143889	.4777214	.5397901	.5993003	.6553308	.7067943	.7535049	.7951193
8	.2603265	.3158854	.3742507	.4336684	.4932655	.5521734	.6083899	.6612630
9	.1457690	.1871074	.2334895	.2841235	.3380249	.3940835	.4511356	.5080328
10	.0728337	.0991615	.1307666	.1675798	.2093906	.2553608	.3050561	.3574909
11	.0324995	.0470374	.0657087	.0889120	.1168958	.1497180	.1872439	.2291341
12	.0130730	.0199930	.0296385	.0424277	.0588403	.0792896	.1040659	.1333071
13	.0046409	.0076251	.0120116	.0182168	.0266928	.0379053	.0523048	.0702963
14	.0014904	.0026130	.0043783	.0070425	.0109155	.0163561	.0237618	.0335494
15	.0004303	.0008055	.0014367	.0024550	.0040254	.0063709	.0097541	.0144853
16	.0001117	.0002335	.0004247	.0007702	.0013391	.0022402	.0036177	.0056556
17	.0000261	.0000659	.0001231	.0002101	.0004019	.0007111	.0012190	.0019959
18	.0000055	.0000166	.0000332	.0000557	.0001088	.0002037	.0003666	.0006363
19	.0000010	.0000036	.0000079	.0000139	.0000265	.0000526	.0001000	.0001831
20	.0000002	.0000005	.0000011	.0000027	.0000058	.0000120	.0000246	.0000475
21		.0000001	.0000002	.0000005	.0000012	.0000026	.0000054	.0000111
22				.0000001	.0000002	.0000005	.0000011	.0000023
23						.0000001	.0000002	.0000004
24								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999683	.9999804	.9999880	.9999927	.9999956	.9999973	.9999984	.9999991
2	.9995868	.9997724	.9998830	.9999303	.9999306	.9999564	.9999729	.9999838
3	.9973619	.9988078	.9997928	.9999138	.9994663	.9996496	.9997720	.9998529
4	.9889569	.9921367	.9944533	.9961239	.9973163	.9981595	.9987492	.9991580
5	.9458430	.9745388	.9881117	.9862740	.9900717	.9928097	.9949580	.9964600
6	.9165335	.9349674	.9498673	.9617591	.9711332	.9784360	.9840571	.9883144
7	.8316114	.8631327	.8899695	.9125004	.9311680	.9464315	.9587533	.9685779
8	.7102942	.7549646	.7950339	.8304078	.8613097	.8876477	.9100318	.9287389
9	.5637035	.6171965	.6677253	.7146773	.7576260	.7963228	.8306827	.8607619
10	.4116815	.4666031	.5213444	.5746576	.6259905	.6745564	.7197729	.7613490
11	.2740606	.3237439	.3749644	.4276370	.4808374	.5336552	.5852344	.6348089
12	.1670660	.2051022	.2470832	.2934960	.3406947	.3909241	.4423649	.4941697
13	.0929071	.1183594	.1485446	.1830003	.2214418	.2634856	.3086404	.3562882
14	.0461403	.0619389	.0813601	.1044010	.1315177	.1626552	.1977051	.2364997
15	.0209130	.0294138	.0403759	.0541798	.0711762	.0916623	.1158590	.1438901
16	.0085798	.0126583	.0181276	.0255351	.0350280	.0470383	.0619144	.0799713
17	.0031840	.0049315	.0074312	.0109143	.0156493	.0219372	.0301047	.0404921
18	.0010680	.0017376	.0027464	.0043051	.0063371	.0092812	.0133914	.0186351
19	.0003234	.0005531	.0009175	.0014792	.0023283	.0035559	.0053179	.0077780
20	.0000883	.0001588	.0002766	.0004676	.0007688	.0012311	.0019241	.0029577
21	.0000217	.0000411	.0000751	.0001332	.0002294	.0003845	.0006341	.0010015
22	.0000048	.0000095	.0000183	.0000341	.0000615	.0001060	.0001845	.0003074
23	.0000009	.0000020	.0000040	.0000078	.0000148	.0000272	.0000486	.0000846
24	.0000002	.0000004	.0000008	.0000016	.0000032	.0000061	.0000114	.0000208
25		.0000001	.0000001	.0000003	.0000006	.0000013	.0000024	.0000046
26					.0000001	.0000002	.0000004	.0000009
27							.0000001	.0000001

$$F(n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 30$$

r	.13	.34	.35	.36	.37	.38	.39	.40
1	.9999995	.9999997	.9999998	.9999999	.9999999	1.00000000	1.00000000	1.00000000
2	.9999877	.9999938	.9999963	.9999978	.9999987	.9999993	.9999996	.9999998
3	.9999060	.9999605	.9999786	.9999868	.9999937	.9999973	.9999987	.9999994
4	.9994385	.9996293	.9997575	.9998429	.9998993	.9999361	.9999598	.9999750
5	.9985393	.9988065	.9988462	.9990819	.9994006	.9996569	.9997750	.9999050
6	.9915581	.9939455	.9957058	.9969061	.9979070	.9985630	.9990226	.9993430
7	.9763161	.9883381	.9869690	.9904858	.9931381	.9950947	.9965110	.9975798
8	.9441549	.9567114	.9660078	.9748245	.9811135	.9859069	.9897179	.9928399
9	.8867327	.9088555	.9274529	.9428046	.9555863	.9657516	.9739191	.9803615
10	.7987485	.8381578	.8615261	.8869899	.9087743	.9271667	.9424940	.9551027
11	.6817286	.7354768	.7656786	.8020997	.8346191	.8633150	.8882471	.9026360
12	.5455035	.5955795	.6436908	.6893343	.7317270	.7708141	.8062704	.8379956
13	.4057202	.4561695	.5068456	.5569703	.6058094	.6527015	.6970803	.7384892
14	.2786154	.3235837	.3708101	.4196191	.4698834	.5190855	.5681999	.6160838
15	.1757669	.2113737	.2504711	.2936919	.3375559	.3844057	.4328303	.4818917
16	.1014691	.1365930	.1554341	.1870770	.2184090	.2635175	.3058936	.3507414
17	.0534394	.0692694	.0808685	.1106679	.1366350	.1668065	.1993760	.2359058
18	.0256083	.0348279	.0457301	.0595975	.0761923	.0960391	.1198567	.1459810
19	.0111389	.0156365	.0215367	.0291310	.0387203	.0506441	.0651071	.0828643
20	.0043873	.0064167	.0092008	.0130456	.0178837	.0242057	.0324374	.0426421
21	.0015607	.0023796	.0035539	.0052039	.0074772	.0105538	.0146395	.0199743
22	.0004999	.0007950	.0012374	.0018069	.0026817	.0038417	.0053703	.0074604
23	.0001437	.0002385	.0003870	.0006148	.0009572	.0014617	.0021911	.0032066
24	.0000369	.0000640	.0001008	.0001702	.0003006	.0004630	.0007204	.0011031
25	.0000084	.0000153	.0000869	.0000465	.0000706	.0001301	.0002111	.0003368
26	.0000017	.0000032	.0000059	.0000107	.0000100	.0000324	.0000540	.0000908
27	.0000003	.0000006	.0000011	.0000022	.0000040	.0000071	.0000125	.0000215
28		.0000001	.0000002	.0000004	.0000007	.0000014	.0000025	.0000045
29				.0000001	.0000001	.0000002	.0000004	.0000008
30							.0000001	.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.9999999	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.9999981	.9999989	.9999994	.9999996	.9999998	.9999999	1.00000000	1.00000000
4	.9999946	.9999967	.9999984	.9999987	.9999990	.9999993	.9999996	.9999998
5	.9999073	.9999414	.9999633	.9999773	.9999863	.9999917	.9999950	.9999971
6	.9995652	.9997139	.9998134	.9998808	.9999240	.9999524	.9999705	.9999820
7	.9986377	.9990581	.9993228	.9994850	.9996611	.9997794	.9998588	.9999100
8	.9964485	.9979051	.9987403	.9991572	.9995365	.9997480	.9998314	.9998854
9	.9853002	.9903413	.9951747	.9943755	.9960059	.9971984	.9980593	.9986228
10	.9653485	.9735525	.9800512	.9851290	.9890478	.9920311	.9942730	.9959179
11	.9277463	.9428782	.9553573	.9655157	.9736765	.9801472	.9858103	.9901193
12	.8659935	.8901763	.9113267	.9290095	.9439504	.9562187	.9662122	.9742438
13	.7765916	.8111707	.8431260	.8694633	.8938008	.9137533	.9311130	.9456371
14	.6618959	.7052831	.7457493	.7889725	.8167450	.8436690	.8736522	.8968078
15	.5309541	.5793114	.6263050	.6713808	.7136688	.7535083	.7899380	.8229569
16	.3974970	.4455249	.4941479	.5426727	.5904175	.6367392	.6810560	.7229871
17	.2757730	.3193681	.3639950	.4099961	.4578476	.5067848	.5543804	.6001619
18	.1768595	.2180398	.2671614	.3173539	.3688402	.4213453	.4731145	.5229861
19	.1033636	.1372379	.1746846	.2156387	.2600338	.3053987	.3503545	.3961176
20	.0558074	.0784324	.1065932	.1399259	.1746107	.2127554	.2543814	.2994126
21	.0286817	.0396682	.0538135	.0703606	.0902008	.1140092	.1419748	.1741748
22	.0137926	.0191775	.0259902	.0340693	.0438911	.0559569	.0706561	.0884561
23	.0062717	.0086531	.0118549	.0158739	.0209111	.0273764	.0357403	.0464328
24	.0026596	.0036550	.0050760	.0069253	.0093360	.0124764	.0165981	.0219241
25	.0010358	.0014083	.0019219	.0026175	.0035615	.0048390	.0065467	.0088241
26	.0003476	.0004759	.0006506	.0008727	.0011708	.0015838	.0021330	.0028709
27	.0001065	.0001466	.0002009	.0002744	.0003749	.0005121	.0006997	.0009560
28	.0000278	.0000386	.0000536	.0000744	.0001035	.0001439	.0002000	.0002780
29	.0000062	.0000088	.0000126	.0000180	.0000258	.0000370	.0000530	.0000759
30	.0000011	.0000016	.0000024	.0000035	.0000052	.0000077	.0000114	.0000168
31		.0000002	.0000004	.0000006	.0000009	.0000014	.0000021	.0000032
32						.0000002	.0000003	.0000005

r	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	.9999998	.9999999
5	.9999983	.9999990
6	.9999891	.9999935
7	.9999437	.9999658
8	.9997584	.9998437
9	.9991041	.9994034
10	.9971545	.9980334
11	.9930970	.9943345
12	.9806116	.9859916
13	.9576201	.9673773
14	.9168444	.9337509
15	.8584794	.8785075
16	.7817796	.7974339
17	.6874044	.6911403
18	.5781288	.5660303
19	.4570092	.4339697
20	.3276680	.3088597
21	.1928060	.2025161
22	.0980613	.1114925
23	.0521247	.0662491
24	.0247920	.0370287
25	.0105674	.0144084
26	.0040074	.0056655
27	.0013408	.0019666

	.40	.50
28	.0003410	.0005966
29	.0000709	.0001563
30	.0000218	.0000348
31	.0000030	.0000065
32	.0000005	.0000010
33	.0000001	.0000001

$$B(n,p) = \sum_{i=0}^{n} \binom{n}{i} p^i (1-p)^{n-i}$$

n = 31

n	.01	.02	.03	.04	.05	.06	.07	.08
1	.3105509	.5264511	.6759932	.7791814	.8501097	.8986717	.9317867	.9542754
2	.0528780	.1688734	.3052225	.4387528	.5582102	.6593646	.7410163	.8071616
3	.0060284	.0375183	.0988140	.1834313	.2816894	.3844159	.4844371	.5768935
4	.0005074	.0062433	.0243368	.0593167	.1110910	.1796669	.2584230	.3432942
5	.0000334	.0008181	.0047577	.0153594	.0359285	.0685797	.1139227	.1706116
6	.0000018	.0000873	.0007611	.0032712	.0095416	.0217818	.0419889	.0715383
7	.0000001	.0000078	.0001019	.0005849	.0021347	.0058499	.0131525	.0258879
8		.0000006	.0000116	.0000892	.0004003	.0013465	.0035403	.0078845
9			.0000011	.0000117	.0000675	.0002605	.0000272	.0021136
10			.0000001	.0000013	.0000098	.0000468	.0001488	.0004967
11				.0000001	.0000012	.0000078	.0000305	.0001030
12					.0000001	.0000010	.0000049	.0000299
13						.0000001	.0000007	.0000081
14							.0000001	.0000019
15								.0000005
								.0000001

n	.09	.10	.11	.12	.13	.14	.15	.16
1	.9694837	.9797244	.9865900	.9911721	.9942162	.9962291	.9975538	.9984212
2	.8578143	.8963694	.9252654	.9446312	.9622392	.9735161	.9811512	.9872942
3	.6590181	.7296592	.7880354	.8373034	.8762320	.9069619	.9300449	.9491447
4	.4296379	.5135534	.5921105	.6633730	.7262961	.7805603	.8263077	.8641680
5	.2368074	.3094536	.3854388	.4617719	.5358602	.6056558	.6697019	.7271104
6	.1109377	.1597803	.2168505	.2803307	.3480511	.4177351	.4872091	.5545580
7	.0445449	.0710851	.1057211	.1483736	.1963794	.2545792	.3154511	.3799667
8	.0154655	.0274414	.0448943	.0686852	.0993356	.1369552	.1812201	.2314619
9	.0046806	.0092565	.0167021	.0279354	.0438370	.0651494	.0923908	.1258748
10	.0012436	.0027459	.0054745	.0100302	.0171154	.0274845	.0418000	.0609607
11	.0002919	.0007203	.0015009	.0031937	.0059353	.0103161	.0169219	.0263081
12	.0000608	.0001679	.0004102	.0009054	.0018348	.0034560	.0061109	.0102243
13	.0000113	.0000349	.0000945	.0002294	.0005072	.0010363	.0019774	.0035535
14	.0000019	.0000065	.0000195	.0000521	.0001257	.0002789	.0005746	.0011103
15	.0000003	.0000011	.0000036	.0000106	.0000280	.0000675	.0001502	.0003122
16		.0000002	.0000006	.0000019	.0000056	.0000147	.0000354	.0000721
17			.0000001	.0000003	.0000010	.0000029	.0000075	.0000181
18					.0000002	.0000005	.0000014	.0000037
19						.0000001	.0000002	.0000007
20								.0000001

n	.17	.18	.19	.20	.21	.22	.23	.24
1	.9989863	.9993527	.9995889	.9997404	.9998370	.9999005	.9999389	.9999611
2	.9913046	.9940953	.9960210	.9973389	.9982338	.9988365	.9992393	.9994964
3	.9629838	.9733220	.9809564	.9865325	.9905626	.9934460	.9954807	.9969219
4	.8953096	.9201223	.9397303	.9550136	.9667733	.9757079	.9824183	.9874002
5	.7774913	.8208594	.8575325	.8880360	.9131183	.9331821	.9492339	.9618418
6	.6182237	.6770492	.7302782	.7775230	.8187105	.8540107	.8838106	.9085727
7	.4442447	.5086860	.5710794	.6301723	.6850084	.7349353	.7795880	.8188564
8	.2864358	.3450159	.4057036	.4670341	.5276123	.5861900	.6417202	.6933865
9	.1652271	.2102875	.2662341	.3140919	.3707143	.4280633	.4872903	.5440081
10	.0852327	.1149917	.1502839	.1908886	.2363248	.2858798	.3386544	.3936209
11	.0393563	.0564197	.0780697	.1046462	.1362982	.1729594	.2143407	.2599307
12	.0162925	.0248610	.0364918	.0517247	.0710334	.0947838	.1231969	.1563204
13	.0060574	.0098513	.0153607	.0230509	.0334442	.0470098	.0642094	.0853436
14	.0020260	.0035152	.0059286	.0092773	.0142287	.0210969	.0303262	.0423664
15	.0006104	.0011308	.0019956	.0033709	.0054723	.0085676	.0129758	.0190607
16	.0001659	.0003283	.0006170	.0011068	.0019032	.0031490	.0050891	.0077547
17	.0000407	.0000861	.0001723	.0003285	.0005987	.0010475	.0017653	.0028742
18	.0000090	.0000204	.0000435	.0000881	.0001703	.0003153	.0005610	.0009626
19	.0000018	.0000044	.0000099	.0000214	.0000438	.0000850	.0001613	.0002918
20	.0000003	.0000008	.0000020	.0000047	.0000102	.0000211	.0000413	.0000800
21	.0000001	.0000001	.0000004	.0000009	.0000021	.0000047	.0000089	.0000158
22			.0000001	.0000002	.0000004	.0000009	.0000021	.0000044
23					.0000001	.0000002	.0000004	.0000008
24							.0000001	.0000002

n	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999762	.9999855	.9999912	.9999947	.9999969	.9999981	.9999989	.9999994
2	.9996822	.9997969	.9998712	.9999190	.9999494	.9999687	.9999808	.9999883
3	.9979182	.9986042	.9990713	.9993888	.9996009	.9997416	.9998343	.9998946
4	.9910582	.9937152	.9956249	.9969833	.9979397	.9986063	.9990662	.9993804
5	.9716215	.9791143	.9847869	.9890319	.9921727	.9944705	.9961333	.9973214
6	.9288708	.9452560	.9583303	.9686233	.9766258	.9827721	.9874364	.9909144
7	.8528419	.8818097	.9061419	.9262943	.9427586	.9560328	.9665975	.9749030
8	.7406235	.7830883	.8206592	.8533943	.8814978	.9052828	.9251355	.9414833
9	.6003504	.6530162	.7020958	.7470818	.7876653	.8237803	.8552809	.8825126
10	.4496868	.5057574	.5607942	.6138531	.6641704	.7110863	.7541549	.7930931
11	.3090674	.3608065	.4144600	.4688028	.5229341	.5759255	.6269413	.6753697
12	.1940151	.2359488	.2816111	.3303364	.3813361	.4337434	.4866544	.5391743
13	.1109218	.1408385	.1751500	.2136650	.2560252	.3017172	.3500950	.4004103
14	.0576569	.0765748	.0994269	.1264111	.1575957	.1929043	.2321088	.2748320
15	.0272196	.0378677	.0514146	.0682417	.0886752	.1129602	.1413375	.1735252
16	.0116631	.0170147	.0241857	.0335556	.0455110	.0604255	.0786372	.1004253
17	.0045329	.0069405	.0103382	.0150081	.0212691	.0294675	.0399657	.0531254
18	.0015970	.0025680	.0040113	.0060981	.0090376	.0130780	.0185035	.0256293
19	.0005096	.0008611	.0014113	.0022481	.0034866	.0052735	.0077897	.0112522
20	.0001471	.0002613	.0004496	.0007508	.0012193	.0019287	.0029762	.0044866
21	.0000384	.0000717	.0001295	.0002268	.0003858	.0006385	.0010299	.0016311
22	.0000090	.0000177	.0000337	.0000610	.0001102	.0001909	.0003230	.0005295
23	.0000019	.0000039	.0000079	.0000152	.0000284	.0000514	.0000907	.0001559
24	.0000004	.0000008	.0000017	.0000033	.0000065	.0000124	.0000230	.0000412
25	.0000001	.0000001	.0000003	.0000007	.0000014	.0000027	.0000052	.0000098
26			.0000001	.0000001	.0000002	.0000005	.0000010	.0000021
27						.0000001	.0000002	.0000004
28								.0000001

$$P(n,x) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad x = p$$

n	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999929	.9999958	.9999975	.9999985	.9999991	.9999995	.9999997	.9999998
3	.9999336	.9999586	.9999744	.9999843	.9999905	.9999943	.9999966	.9999980
4	.9995928	.9997350	.9998293	.9998911	.9999313	.9999571	.9999734	.9999838
5	.9981660	.9987562	.9991652	.9994455	.9996355	.9997630	.9998476	.9999030
6	.9935278	.9954252	.9968050	.9977910	.9984893	.9989781	.9993164	.9995478
7	.9813440	.9862846	.9900269	.9928275	.9948988	.9964122	.9975050	.9982847
8	.9547681	.9654245	.9738538	.9804635	.9855603	.9894479	.9923765	.9945556
9	.9056820	.9251265	.9412269	.9543830	.9649935	.9734410	.9800806	.9852329
10	.8277792	.8582346	.8846005	.9071120	.9260725	.9418290	.9547498	.9652062
11	.7203432	.7617481	.7992252	.8326602	.8620691	.8875786	.9094034	.9278232
12	.5904578	.6397446	.6863865	.7298659	.7698045	.8059643	.8382413	.8666509
13	.4518487	.5035689	.5547414	.6045853	.6523989	.6975843	.7396644	.7782910
14	.3205600	.3686629	.4184226	.4690655	.5197980	.5698410	.6184632	.6650090
15	.2097064	.2495251	.2925897	.3383857	.3862950	.4356222	.4856244	.5355439
16	.1259872	.1554183	.1886970	.2256744	.2660718	.3094854	.3553989	.4032010
17	.0692892	.0887593	.1117764	.1384992	.1689867	.2031347	.2409179	.2818882
18	.0347986	.0463400	.0606121	.0779253	.0985524	.1227027	.1505032	.1819829
19	.0159138	.0220595	.0300009	.0400668	.0525900	.0678042	.0862748	.1079789
20	.0066153	.0095514	.0135180	.0187711	.0255962	.0343018	.0452098	.0586430
21	.0024935	.0037572	.0055301	.0079902	.0113281	.0157719	.0215809	.0290414
22	.0008500	.0013338	.0020482	.0030811	.0045445	.0065781	.0093515	.0130660
23	.0002613	.0004277	.0006846	.0010728	.0016470	.0024799	.0036650	.0053203
24	.0000732	.0001233	.0002058	.0003360	.0005372	.0008418	.0012940	.0019556
25	.0000178	.0000318	.0000554	.0000943	.0001570	.0002562	.0004097	.0006429
26	.0000039	.0000073	.0000133	.0000236	.0000409	.0000695	.0001157	.0001889
27	.0000008	.0000015	.0000028	.0000052	.0000095	.0000167	.0000290	.0000492
28	.0000001	.0000003	.0000005	.0000010	.0000019	.0000035	.0000064	.0000113
29			.0000001	.0000002	.0000003	.0000007	.0000012	.0000023
30					.0000001	.0000001	.0000002	.0000004
31								.0000001

n	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999988	.9999993	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000
4	.9999902	.9999941	.9999965	.9999980	.9999988	.9999993	.9999996	.9999998
5	.9999390	.9999621	.9999767	.9999858	.9999915	.9999950	.9999971	.9999983
6	.9997043	.9998088	.9998779	.9999229	.9999520	.9999704	.9999820	.9999892
7	.9988343	.9992171	.9994804	.9996594	.9997794	.9998590	.9999110	.9999446
8	.9961570	.9973194	.9981525	.9987428	.9991542	.9994385	.9996320	.9997620
9	.9891852	.9921661	.9943959	.9960398	.9972360	.9980952	.9987042	.9991300
10	.9735580	.9801418	.9852643	.9891979	.9921789	.9944082	.9960530	.9972503
11	.9431607	.9557614	.9659759	.9741459	.9805936	.9856139	.9894701	.9923919
12	.8913122	.9124871	.9302600	.9451170	.9573272	.9672258	.9751418	.9813840
13	.8132464	.8444370	.8718823	.8956989	.9160821	.9332873	.9476100	.9593683
14	.7089211	.7497559	.7871913	.8210285	.8511861	.8776901	.9006501	.9202872
15	.5846402	.6322206	.6776661	.7204520	.7601631	.7965006	.8292837	.8584445
16	.4528144	.5017160	.5509755	.5992814	.6459706	.6904530	.7322309	.7709133
17	.3256804	.3717739	.4195618	.4683738	.5175041	.5662398	.6138907	.6598160
18	.2170604	.2555377	.2970989	.3413165	.3876635	.4355318	.4842550	.5331350
19	.1331917	.1620143	.1944496	.2303934	.2696267	.3118165	.3568217	.4032057
20	.0749104	.0942904	.1170125	.1432395	.1730511	.2064293	.2432487	.2832710
21	.0384598	.0501532	.0644360	.0816093	.1019363	.1256325	.1528441	.1836329
22	.0179545	.0242796	.0323291	.0424091	.0548344	.0699155	.0879445	.1091781
23	.0075912	.0106534	.0147134	.0200090	.0268067	.0353972	.0460881	.0591944
24	.0028946	.0042182	.0060467	.0085307	.0118513	.0162203	.0218807	.0291039
25	.0009907	.0014999	.0022328	.0032698	.0047134	.0066911	.0093584	.0129014
26	.0003027	.0004763	.0007367	.0011204	.0016766	.0024700	.0035839	.0051241
27	.0000820	.0001342	.0002158	.0003409	.0005298	.0008104	.0012205	.0018107
28	.0000196	.0000333	.0000557	.0000914	.0001476	.0002345	.0003667	.0005647
29	.0000041	.0000072	.0000125	.0000214	.0000359	.0000592	.0000962	.0001539
30	.0000007	.0000013	.0000024	.0000043	.0000075	.0000129	.0000218	.0000362
31	.0000001	.0000002	.0000004	.0000007	.0000013	.0000024	.0000042	.0000072
32			.0000001	.0000001	.0000002	.0000004	.0000007	.0000012
33							.0000001	.0000002

n	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	.9999999	.9999999
5	.9999990	.9999995
6	.9999936	.9999963
7	.9999659	.9999794
8	.9999482	.9999045
9	.9994237	.9996236
10	.9981098	.9987184
11	.9945752	.9961840
12	.9862395	.9899631
13	.9688870	.9764845
14	.9368255	.9508641
15	.8840182	.9061292
16	.8062225	.8379957
17	.7034483	.7443121
18	.5814705	.6305853
19	.4512546	.5000000
20	.3261452	.3714147
21	.2179684	.2556879
22	.1338292	.1520043
23	.0750056	.0938709
24	.0381851	.0491359
25	.0173375	.0235155
26	.0072218	.0100369

$$P(c,n,p) = \sum_{x=0}^{c} \binom{n}{x} p^{x} (1-p)^{n-x}$$

$n = 37$

c	.49	.50
27	.0026474	.0038160
28	.0008569	.0012814
29	.0002425	.0003764
30	.0000593	.0000955
31	.0000123	.0000206
32	.0000021	.0000037
33	.0000003	.0000005
34		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 38

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.3174454	.5359221	.6857134	.7880142	.8576043	.9047514	.9365616	.9579334
2	.0554548	.1760250	.3163456	.4523699	.5728128	.6737230	.7551142	.8189307
3	.0064969	.0401454	.1050063	.1936441	.2955158	.4009128	.5034536	.5953177
4	.0005626	.0060608	.0265711	.0642812	.1203809	.1919519	.2742440	.3619824
5	.0000381	.0009266	.0053451	.0171177	.0397266	.0752449	.1239447	.1844446
6	.0000021	.0001019	.0008810	.0037547	.0106609	.0245891	.0470173	.0794658
7	.0000001	.0000094	.0001217	.0006923	.0025050	.0068057	.0151710	.0298585
8		.0000007	.0000143	.0001090	.0004946	.0016167	.0042132	.0093003
9			.0000015	.0000148	.0000841	.0003332	.0010171	.0025753
10			.0000001	.0000015	.0000126	.0000601	.0003152	.0006260
11				.0000002	.0000017	.0000096	.0000402	.0001345
12					.0000002	.0000013	.0000067	.0000257
13						.0000002	.0000010	.0000044
14							.0000001	.0000007
15								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9722302	.9817520	.9880651	.9922314	.9949681	.9967570	.9979207	.9986738
2	.8678645	.9047049	.9320111	.9519761	.9663962	.9766960	.9839771	.9890745
3	.7659098	.7463302	.8038427	.8504228	.8874129	.9162795	.9384553	.9552486
4	.6502022	.5351640	.6137502	.6642447	.7457877	.7982565	.8420563	.8779328
5	.5241621	.3290636	.4081727	.4859639	.5606169	.6301424	.6932048	.7490718
6	.3922660	.1747476	.2353952	.3021036	.3734663	.4440440	.5145830	.5821664
7	.2605203	.0799546	.1179454	.1642084	.2174368	.2774311	.3412148	.4073133
8	.1480837	.0318057	.0515852	.0782478	.1122113	.1534226	.2013548	.2550603
9	.0656512	.0110750	.0198032	.0328254	.0510518	.0752026	.1057152	.1426831
10	.0215530	.0033969	.0067095	.0121788	.0205802	.0327576	.0494566	.0713324
11	.0063775	.0009229	.0020164	.0040141	.0073887	.0127197	.0206655	.0319197
12	.0015816	.0002231	.0005399	.0011800	.0023678	.0044164	.0077325	.0128105
13	.0003157	.0000482	.0001293	.0003105	.0006798	.0013751	.0026974	.0046209
14	.0000527	.0000093	.0000278	.0000733	.0001753	.0003849	.0007850	.0015010
15	.0000074	.0000016	.0000054	.0000156	.0000407	.0000971	.0002139	.0004398
16	.0000001	.0000003	.0000009	.0000030	.0000085	.0000221	.0000526	.0001164
17			.0000001	.0000005	.0000016	.0000045	.0000117	.0000279
18				.0000001	.0000003	.0000008	.0000024	.0000060
19						.0000001	.0000004	.0000012
20							.0000001	.0000002

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.9991587	.9994692	.9996670	.9997933	.9998712	.9999206	.9999514	.9999704
2	.9926105	.9950416	.9966989	.9978192	.9985704	.9990701	.9993997	.9996155
3	.9677083	.9770612	.9838187	.9886938	.9921735	.9946319	.9963513	.9975423
4	.9068142	.9296982	.9475632	.9613174	.9717603	.9796103	.9854244	.9896854
5	.7975204	.8387267	.8731501	.9014315	.9243066	.9423770	.9568656	.9679758
6	.6452992	.7020350	.7544565	.7996256	.8385152	.8714347	.8988578	.9213573
7	.4730211	.5389914	.6013272	.6596425	.7130059	.7611336	.8035592	.8403803
8	.3132633	.3744765	.4371250	.4996617	.5606655	.6189140	.6734298	.7235008
9	.1858326	.2345386	.2878733	.3446804	.4036628	.4634752	.5228092	.5804674
10	.0988317	.1321450	.1711744	.2155292	.2645466	.3173361	.3728406	.4299058
11	.0471553	.0669625	.0917204	.1218947	.1573038	.1978019	.2429328	.2920232
12	.0202134	.0305415	.0443916	.0623090	.0847390	.1119825	.1441599	.1811893
13	.0077974	.0125531	.0193756	.0287921	.0413380	.0575201	.0777769	.1024389
14	.0027113	.0046557	.0076397	.0120336	.0182640	.0267978	.0381194	.0527018
15	.0008511	.0015600	.0027239	.0045522	.0073111	.0113241	.0169664	.0246546
16	.0002415	.0004727	.0008789	.0015596	.0026527	.0043411	.0068568	.0104833
17	.0000620	.0001297	.0002568	.0004842	.0008736	.0015098	.0025160	.0040503
18	.0000144	.0000322	.0000680	.0001362	.0002603	.0004764	.0008380	.0014214
19	.0000030	.0000072	.0000163	.0000347	.0000704	.0001363	.0002533	.0004528
20	.0000006	.0000015	.0000035	.0000080	.0000172	.0000354	.0000694	.0001306
21	.0000001	.0000003	.0000007	.0000017	.0000038	.0000083	.0000178	.0000343
22			.0000001	.0000003	.0000008	.0000018	.0000039	.0000081
23				.0000001	.0000001	.0000003	.0000008	.0000017
24						.0000001	.0000001	.0000003
25								.0000001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999821	.9999893	.9999936	.9999962	.9999978	.9999987	.9999993	.9999996
2	.9997557	.9998459	.9999036	.9999402	.9999632	.9999775	.9999864	.9999918
3	.9993598	.9995143	.9996080	.9996673	.9997040	.9998098	.9998797	.9999246
4	.9927732	.9949863	.9965557	.9976569	.9984215	.9989469	.9993043	.9995480
5	.9764807	.9829105	.9877132	.9912583	.9938451	.9957113	.9970425	.9979816
6	.9395510	.9540591	.9654736	.9743377	.9811344	.9862816	.9901324	.9929790
7	.8716466	.8943057	.9203320	.9381464	.9525801	.9640546	.9730576	.9800311
8	.7686781	.8087559	.8437305	.8730063	.8992635	.9205078	.9379887	.9521766
9	.6354187	.6868349	.7341079	.7768493	.8148767	.8481890	.8769358	.9013832
10	.4873527	.5440447	.5989457	.6511644	.6999839	.7448765	.7855040	.8217074
11	.3442222	.3985530	.4539703	.5094197	.5638926	.6164737	.6663775	.7129732
12	.2227782	.2684386	.3174803	.3691067	.4223995	.4763980	.5301434	.5827248
13	.1316952	.1655672	.2038945	.2463329	.2923653	.3413250	.3934284	.4480148
14	.0709732	.0932834	.1198722	.1504422	.1861402	.2255482	.2686845	.3150171
15	.0348291	.0479316	.0643779	.0845293	.1086622	.1369434	.1694076	.2059434
16	.0155523	.0224365	.0315375	.0432677	.0580286	.0761859	.0980433	.1239173
17	.0063155	.0095508	.0140770	.0202014	.0282992	.0387549	.0519539	.0683614
18	.0023309	.0037049	.0057196	.0085929	.0125848	.0179949	.0251368	.0344281
19	.0007814	.0013049	.0021133	.0033261	.0050964	.0076148	.0111109	.0158529
20	.0002377	.0004173	.0007093	.0011701	.0018768	.0029381	.0044684	.0066516
21	.0000655	.0001310	.0002159	.0003755	.0006275	.0010256	.0016338	.0025380
22	.0000164	.0000318	.0000595	.0001080	.0001901	.0003258	.0005415	.0008788
23	.0000037	.0000075	.0000148	.0000282	.0000531	.0000933	.0001624	.0002754
24	.0000007	.0000016	.0000033	.0000067	.0000139	.0000241	.0000440	.0000779
25	.0000001	.0000003	.0000007	.0000014	.0000029	.0000056	.0000107	.0000198
26		.0000001	.0000001	.0000003	.0000006	.0000012	.0000023	.0000045
27					.0000001	.0000002	.0000005	.0000009
28							.0000001	.0000002

n	.31	.34	.35	.36	.37	.38	.39	.40
1	.9994998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999552	.9999971	.9999983	.9999990	.9999994	.9999997	.9999998	.9999999
3	.9999538	.9999712	.9999825	.9999894	.9999937	.9999963	.9999978	.9999987
4	.9997053	.9998110	.9998801	.9999247	.9999538	.9999712	.9999825	.9999895
5	.9986369	.9990890	.9993976	.9996059	.9997450	.9998367	.9998967	.9999353
6	.9950584	.9965597	.9976310	.9983866	.9989134	.9992763	.9995235	.9996899
7	.9853647	.9893934	.9923992	.9946145	.9963273	.9973873	.9982115	.9987899
8	.9635301	.9785169	.9895209	.9949146	.9890156	.9920943	.9943766	.9960472
9	.9218804	.9388278	.9526498	.9637720	.9726032	.9795236	.9840760	.9889620
10	.8534871	.8809779	.9044197	.9241295	.9404733	.9538416	.9646280	.9732169
11	.7557971	.7945536	.8291065	.8594628	.8857504	.9081938	.9270885	.9427764
12	.6333199	.6812258	.7258001	.7668710	.8039424	.8369778	.8659945	.8911198
13	.4975097	.5498606	.6008172	.6496863	.6958390	.7387688	.7781094	.8136350
14	.3638853	.4145309	.4661342	.5178527	.5680603	.6158935	.6657317	.7103218
15	.2462881	.2900320	.3366312	.3854305	.4356911	.4866254	.5374316	.5873300
16	.1536145	.1874146	.2250595	.2662505	.3105544	.3574174	.4061869	.4561386
17	.0879995	.1114234	.1386906	.1690023	.2049082	.2435790	.2855655	.3304136
18	.0461765	.0607626	.0785196	.0997319	.1246131	.1532858	.1857649	.2219450
19	.0221438	.0303149	.0407148	.0536957	.0695961	.0887814	.1113835	.1375805
20	.0096838	.0138043	.0192870	.0264374	.0355839	.0470669	.0612249	.0783774
21	.0038537	.0057240	.0083258	.0110713	.0146073	.0188133	.0307962	.0408820
22	.0013923	.0021561	.0032668	.0044483	.0070544	.0100717	.0141210	.0194561
23	.0004556	.0007358	.0011619	.0017957	.0027191	.0040372	.0058827	.0084186
24	.0001346	.0002268	.0003734	.0006013	.0009479	.0014643	.0022187	.0032997
25	.0000358	.0000629	.0001060	.0001813	.0002977	.0004787	.0007546	.0011668
26	.0000085	.0000156	.0000280	.0000490	.0000839	.0001405	.0002304	.0003705
27	.0000018	.0000035	.0000065	.0000118	.0000211	.0000368	.0000628	.0001051
28	.0000003	.0000007	.0000013	.0000025	.0000047	.0000085	.0000152	.0000265
29	.0000001	.0000001	.0000002	.0000005	.0000009	.0000017	.0000030	.0000059
30				.0000001	.0000002	.0000003	.0000006	.0000011
31							.0000001	.0000002

n	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999993	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000
4	.9999937	.9999963	.9999979	.9999988	.9999993	.9999996	.9999998	.9999999
5	.9999600	.9999755	.9999852	.9999912	.9999948	.9999970	.9999983	.9999990
6	.9998005	.9998732	.9999204	.9999506	.9999698	.9999817	.9999891	.9999936
7	.9991910	.9994656	.9996513	.9997753	.9998571	.9999102	.9999444	.9999660
8	.9978547	.9988164	.9992235	.9994457	.9996356	.9997631	.9998496	
9	.9938407	.9963305	.9980112	.9992288	.9996992	.9998131	.9999403	.9999334
10	.9799631	.9851930	.9891909	.9922083	.9944546	.9961042	.9972991	.9981526
11	.9556236	.9660012	.9743669	.9807688	.9858070	.9896592	.9925641	.9947239
12	.9125701	.9306275	.9456179	.9577097	.9677971	.9756843	.9818758	.9866678
13	.8452533	.8789928	.8969847	.9174428	.9346424	.9488990	.9605497	.9699358
14	.7516945	.7895219	.8236084	.8538034	.8803893	.9032649	.9227261	.9390461
15	.6355954	.6815854	.7247619	.7647057	.8011234	.8338478	.8628301	.8881290
16	.5065090	.5565280	.6054524	.6525965	.6973572	.7392349	.7770457	.8129283
17	.3775593	.4263496	.4760697	.5259732	.5753140	.6233779	.6695106	.7131427
18	.2615946	.3043569	.3497579	.3973217	.4460918	.4956575	.5451838	.5939419
19	.1675780	.2012941	.2385888	.2791995	.3227433	.3687255	.4165563	.4655718
20	.0988059	.1227344	.1503105	.1815878	.2165101	.2549074	.2964870	.3400397
21	.0534046	.0686908	.0870443	.1087266	.1339360	.1627990	.1953343	.2314592
22	.0263617	.0351465	.0461354	.0596572	.0760302	.0955453	.1184493	.1449164
23	.0118402	.0163764	.0222882	.0298651	.0394198	.0512756	.0657606	.0831866
24	.0048202	.0069210	.0097734	.0135812	.0185832	.0250417	.0332582	.0435474
25	.0017713	.0026416	.0038720	.0055046	.0079255	.0110745	.0152439	.0206706
26	.0005948	.0009062	.0013800	.0020661	.0030432	.0044117	.0062979	.0088572
27	.0001725	.0002779	.0004398	.0006632	.0010459	.0015738	.0023318	.0034012
28	.0000452	.0000757	.0001245	.0002012	.0003196	.0004994	.0007600	.0011628
29	.0000104	.0000182	.0000311	.0000523	.0000862	.0001398	.0002233	.0003611
30	.0000021	.0000038	.0000068	.0000118	.0000203	.0000342	.0000560	.0000927
31	.0000004	.0000007	.0000013	.0000023	.0000041	.0000072	.0000125	.0000213
32	.0000001	.0000001	.0000002	.0000004	.0000007	.0000013	.0000023	.0000041
33				.0000001	.0000001	.0000002	.0000004	.0000007
34								.0000001

n	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	.9999999	1.0000000
5	.9999995	.9999997
6	.9999963	.9999979
7	.9999795	.9999878
8	.9999059	.9999419
9	.9996317	.9997640
10	.9987537	.9991710
11	.9963073	.9974512
12	.9903240	.9930735
13	.9773897	.9838238
14	.9525356	.9635243
15	.9098938	.9283467
16	.8443424	.8730635
17	.7598076	.7911539
18	.6612396	.6864487
19	.5150604	.5642937
20	.3874488	.4357073
21	.2709720	.3135513
22	.1750499	.2088461
23	.1030350	.1279375
24	.0563869	.0716553
25	.0276540	.0371757

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 30$$

c \ p	.49	.50
26	.0128765	.0167762
27	.0048869	.0069265
28	.0017342	.0025480
29	.0005435	.0008290
30	.0001490	.0002360
31	.0000353	.0000581
32	.0000071	.0000129
33	.0000012	.0000021
34	.0000002	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 39

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.32837710	.54520037	.69514200	.79649360	.86472400	.91046630	.94100830	.96189870
2	.05807470	.18322390	.32742660	.46579570	.58705240	.68758470	.76781560	.83003090
3	.00698650	.04886300	.11113440	.20399320	.30938070	.41728140	.52013990	.61320670
4	.00062800	.00753440	.02892410	.06945580	.13913760	.20444950	.29021870	.38064980
5	.00004340	.00104540	.00598180	.01900420	.04375930	.08284730	.13446570	.19864760
6	.00000250	.00011840	.00101490	.00488930	.01230420	.02763850	.05840230	.08786410
7	.00000010	.00001120	.00014450	.00081400	.00292280	.00787270	.01740030	.03387510
8		.00000090	.00001750	.00013240	.00059510	.00192800	.00490020	.01089700
9		.00000060	.00000180	.00001860	.00010510	.00041020	.00134080	.00311350
10			.00000020	.00000230	.00001620	.00007650	.00027140	.00078200
11				.00000020	.00000220	.00001260	.00005250	.00017380
12					.00000030	.00000180	.00000900	.00003440
13						.00000020	.00000140	.00000610
14							.00000020	.00000100
15								.00000010

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.97478850	.98357680	.98937790	.99316370	.99562230	.99721110	.99823260	.99888600
2	.87788740	.91844090	.94381770	.96260670	.97011050	.97950450	.98606860	.99061040
3	.69405770	.76811670	.82174120	.86260920	.89766070	.92473780	.94528360	.96066080
4	.47136780	.55628060	.63466040	.70411860	.76411900	.81477970	.85651610	.89030290
5	.27181290	.35039360	.43078630	.50975760	.58466910	.65367840	.71553250	.76968930
6	.13413660	.19025920	.25440080	.32416690	.39692590	.47009780	.54137630	.60888710
7	.05697740	.08943390	.13086480	.18075590	.23793860	.30074830	.36782010	.43528980
8	.02100810	.03662060	.05660480	.08856310	.12594260	.17078230	.22233380	.27942080
9	.00677010	.01314800	.02329920	.03827610	.05900850	.08615340	.12006110	.16066340
10	.00192180	.00416470	.00814900	.01465640	.02845490	.03869990	.05709540	.08274850
11	.00046330	.00117030	.00253260	.00499380	.00910400	.01552500	.02498410	.03832580
12	.00010880	.00029310	.00070230	.00152010	.00302060	.00557090	.00967250	.01586800
13	.00002170	.00006570	.00017440	.00041480	.00089920	.00180090	.00336770	.00593180
14	.00000390	.00001320	.00003090	.00010100	.00024090	.00052350	.00105690	.00200020
15	.00000060	.00000240	.00000700	.00002250	.00005820	.00013740	.00029950	.00060960
16	.00000010	.00000040	.00000140	.00000450	.00001270	.00003260	.00007600	.00016080
17		.00000010	.00000020	.00000080	.00000250	.00000700	.00001780	.00004200
18				.00000010	.00000040	.00000140	.00000380	.00000950
19					.00000010	.00000020	.00000070	.00000200
20							.00000010	.00000040
21								.00000010

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.99930170	.99956470	.99973230	.99983380	.99989830	.99993810	.99996260	.99997750
2	.99372370	.99583060	.99726280	.99821300	.99884360	.99925720	.99952660	.99970070
3	.97201640	.98029770	.98636590	.99051890	.99351690	.99560850	.99705210	.99803980
4	.91718150	.93802360	.95445180	.96677920	.97605340	.98291500	.98793760	.99157100
5	.81610040	.85510160	.88720860	.91340870	.93432730	.95069380	.96343410	.97318610
6	.67117680	.72737750	.77700830	.81998680	.85655140	.88707730	.91219960	.93354570
7	.50299720	.56850180	.63042180	.68763910	.73942600	.78839980	.82547790	.85982090
8	.34055810	.40408920	.46883230	.53165790	.59267380	.65020230	.70335950	.75155300
9	.20744580	.25973740	.31623110	.37567660	.43663340	.49767170	.55745190	.61479540
10	.11362190	.15057580	.19334720	.24135950	.29376100	.34948670	.40733540	.46604060
11	.05594030	.07869550	.10687340	.14062160	.17982480	.22409940	.27201160	.32511500
12	.02477930	.03709730	.05329740	.07422620	.09997760	.13086270	.16687770	.20778940
13	.00990610	.01572400	.02412070	.03549550	.05045320	.06950180	.09304500	.12133350
14	.00357590	.00607720	.00986950	.01530850	.02310950	.03355670	.04724070	.06463870
15	.00116730	.00211720	.00365790	.00604850	.00961120	.01473830	.02133160	.03138590
16	.00034510	.00066850	.00122950	.00215810	.00363100	.00587730	.00918200	.01308440
17	.00009350	.00019140	.00037500	.00069920	.00124650	.00213270	.00351440	.00559430
18	.00002250	.00004970	.00010390	.00020580	.00038890	.00070370	.00122390	.00205230
19	.00000500	.00001170	.00002610	.00005500	.00011030	.00021110	.00039770	.00068550
20	.00000100	.00000250	.00000600	.00001340	.00002840	.00005760	.00011170	.00021080
21	.00000020	.00000050	.00000120	.00000290	.00000660	.00001430	.00002920	.00005740
22		.00000010	.00000020	.00000060	.00000140	.00000320	.00000690	.00001440
23				.00000010	.00000030	.00000070	.00000150	.00000330
24						.00000010	.00000030	.00000070
25							.00000010	.00000010

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.99998660	.99999210	.99999530	.99999730	.99999840	.99999910	.99999950	.99999970
2	.99981230	.99990330	.99994270	.99996590	.99997730	.99998390	.99999040	.99999430
3	.99870630	.99915650	.99945420	.99965010	.99977770	.99986010	.99991280	.99994610
4	.99416970	.99600760	.99738340	.99831840	.99897280	.99920580	.99954820	.99966640
5	.98055380	.98605020	.99010070	.99304990	.99517230	.99668200	.99774370	.99848190
6	.94878340	.96156050	.97147830	.97907550	.98482050	.98911050	.99227460	.99457980
7	.88877870	.91880160	.93844780	.95248000	.96086090	.97072270	.97835800	.98417440
8	.79447020	.83203880	.86439270	.89108150	.91472530	.93357190	.94886000	.96109000
9	.66873350	.71853440	.76370850	.80399730	.83534890	.86908470	.89586220	.91765710
10	.52436920	.58117010	.63543950	.68635620	.73330580	.77587030	.81384780	.84729360
11	.38000480	.43638080	.49311360	.54910080	.60335910	.65499460	.70330670	.74776810
12	.25531390	.30226390	.35433260	.40839140	.46343250	.51848070	.57237600	.62444040
13	.15446590	.19281880	.23456270	.28007090	.33009750	.38184690	.43518000	.48894600
14	.08615370	.11207720	.14255820	.17757960	.21594550	.26020810	.30704510	.35655230
15	.04386510	.05977830	.07936140	.10309680	.13113000	.16352480	.20010340	.24084690
16	.02037180	.02906520	.04040440	.05468200	.07287120	.09441310	.12016620	.15209760
17	.00862470	.01289070	.01867910	.02666000	.03692070	.04994420	.06624160	.08603930
18	.00332710	.00523710	.00797610	.01184330	.01714200	.02422290	.03346390	.04585470
19	.00116680	.00192880	.00308700	.00480080	.00726800	.01070880	.01546520	.02179690
20	.00037360	.00064800	.00110840	.00187370	.00308105	.00493690	.00765870	.00959600
21	.00010860	.00019800	.00034910	.00059660	.00099890	.00159750	.00251810	.00383440
22	.00002870	.00005500	.00010180	.00018240	.00031700	.00053530	.00087990	.00140980
23	.00000690	.00001380	.00002690	.00005060	.00009210	.00016290	.00027990	.00046850

$$I(x,n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 39$$

x	.25	.26	.27	.28	.29	.30	.31	.32
24	.0000015	.0000031	.0000064	.0000127	.0000248	.0000447	.0000807	.0001411
25	.0000003	.0000006	.0000014	.0000029	.0000058	.0000112	.0000210	.0000384
26	.0000001	.0000001	.0000001	.0000006	.0000012	.0000025	.0000049	.0000094
27				.0000001	.0000002	.0000005	.0000010	.0000021
28						.0000001	.0000002	.0000004
29								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999967	.9999991	.9999996	.9999996	.9999996	.9999998	.9999999	.9999999
3	.9999670	.9999900	.9999980	.9999989	.9999950	.9999976	.9999996	.9999992
4	.9997871	.9999155	.9999594	.9999800	.9999682	.9999907	.9999885	.9999938
5	.9994935	.9997345	.9998565	.9999207	.9998820	.9998878	.9999301	.9999570
6	.9987393	.9994197	.9996403	.9998256	.9998811	.9994893	.9996690	.9997881
7	.9965636	.9981100	.9992103	.9995784	.9997211	.9981051	.9987838	.9991499
8	.9907409	.9958549	.9980283	.9994066	.9996839	.9941056	.9950728	.9971443
9	.9756275	.9902021	.9962547	.9973833	.9986758	.9843005	.9885413	.9917961
10	.9760569	.9866466	.9923003	.9934008	.9961614	.9636006	.9785252	.9795149
11	.9600340	.9539776	.9854665	.9887486	.9959979	.9255399	.9417292	.9549586
12	.9373374	.9197572	.9762097	.9800046	.9934113	.8640329	.8898212	.9117095
13	.9021882	.8845101	.9645908	.9691731	.9858378	.7760888	.8183846	.8446889
14	.8480977	.8405457	.9513732	.9563128	.9615844	.6641239	.7095590	.7516471
15	.7850952	.7823616	.9369573	.9331024	.9349637	.5366934	.5874686	.6365867
16	.7141968	.7223045	.9241096	.9091553	.8968550	.4065164	.4573723	.5086152
17	.6396525	.6372604	.9109249	.8845748	.8439973	.2868376	.3386070	.3807036
18	.5699781	.5579082	.8995823	.8629860	.7943283	.1875972	.2446871	.2853385
19	.5108746	.4906671	.8930465	.8702607	.8099584	.1132550	.1403557	.1713263
20	.4717956	.4594179	.8967869	.9362504	.8481684	.0688956	.0807634	.1050506
21	.4557776	.4584710	.9121682	.9171151	.9836286	.9320897	.9426634	.9550808
22	.4629046	.4631681	.9059175	.9073766	.9105092	.9149135	.9206243	.9280865
23	.4807647	.4812187	.9018906	.9028947	.9041218	.9063303	.9090956	.9184376
24	.5002405	.5001999	.9006494	.9010313	.9016038	.9024480	.9036477	.9053478
25	.5000614	.5001184	.9002009	.9003325	.9005383	.9008531	.9013806	.9020800
26	.5000175	.5000317	.9000560	.9000967	.9001630	.9002690	.9004346	.9006890
27	.5000040	.5000076	.9000140	.9000252	.9000443	.9000762	.9001208	.9002113
28	.5000008	.5000016	.9000031	.9000059	.9000108	.9000191	.9000338	.9000579
29	.5000002	.5000003	.9000006	.9000012	.9000023	.9000041	.9000079	.9000141
30		.5000001	.9000001	.9000003	.9000004	.9000009	.9000016	.9000030
31					.9000001	.9000001	.9000003	.9000006
32								.9000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999960	.9999977	.9999987	.9999993	.9999996	.9999998	.9999999	.9999999
5	.9999738	.9999841	.9999907	.9999945	.9999968	.9999982	.9999990	.9999994
6	.9998559	.9999162	.9999483	.9999685	.9999810	.9999887	.9999934	.9999962
7	.9994409	.9996368	.9998070	.9998525	.9999070	.9999431	.9999654	.9999798
8	.9980486	.9990831	.9994325	.9996228	.9998252	.9997599	.9998483	.9999055
9	.9941785	.9969206	.9987975	.9993723	.9997006	.9991358	.9994330	.9996338
10	.9843149	.9909341	.9961236	.9984273	.9996947	.9973043	.9991644	.9997573
11	.9656028	.9740611	.9906059	.9858022	.9969804	.9936239	.9987895	.9996597
12	.9382290	.9454844	.9829382	.9679565	.9879015	.9821128	.9968091	.9995547
13	.8980578	.9071994	.9717970	.9453395	.9749600	.9673203	.9935730	.9979678
14	.8480138	.8645797	.9551602	.9218496	.9548032	.9443566	.9885038	.9953938
15	.7911960	.7969188	.9329439	.8939431	.9267931	.9157796	.9809810	.9913693
16	.7334344	.7409521	.9067555	.8619245	.8944530	.8827560	.9177804	.9849246
17	.6784287	.6810245	.8777043	.8276074	.8603335	.8476731	.8204881	.9761039
18	.6291401	.6355938	.8480720	.7933723	.8263410	.8124674	.7936174	.9651583
19	.5861248	.5945805	.8196915	.7611893	.7942501	.7791142	.7677113	.9521894
20	.5497024	.5597295	.7942702	.7324367	.7654315.	.7492637	.7437196	.9374011
21	.5198191	.5313891	.7724488	.7077853	.7404954	.7236689	.7208761	.9209618
22	.4964493	.5092351	.7547262	.6872478	.7197887	.7026820	.7025469	.9030569
23	.4792940	.4929528	.7408535	.6705716	.7031941	.6859396	.6880233	.8838169
24	.4676984	.4819923	.7303547	.6573461	.6899503	.6727093	.6765143	.8634748
25	.4609213	.4744389	.7226100	.6470311	.6794206	.6622706	.6674994	.8422556
26	.4580712	.4696351	.7170519	.6391143	.6710402	.6541766	.6605025	.8203315
27	.4583415	.4669418	.7132921	.6331441	.6644464	.6480196	.6551956	.7978201
28	.4609974	.4658606	.7109601	.6287136	.6593936	.6434156	.6513028	.7748378
29	.4654247	.4659431	.7097713	.6255178	.6556912	.6401193	.6485793	.7514907
30	.4710055	.4668098	.7095172	.6233396	.6532499	.6379299	.6468351	.7278667
31	.4772011	.4681020	.7100020	.6220065	.6520114	.6367197	.6459322	.7040167
32	.4835002	.4695004	.7110536	.6214102	.6520022	.6364155	.6457755	.6800555
33		.4707111	.7125239	.6214114	.6530197	.6369133	.6462123	.6560555
34			.7142922	.6218322	.6548440	.6381071	.6471671	.6321123
35				.6226723	.6573707	.6399123	.6485023	.6083023
36					.6604007	.6422766	.6502503	.5847004
37						.6450766	.6523503	.5613004
38							.6547503	.5383004
39								.5159004

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	.9999997	.9999998
6	.9999978	.9999988
7	.9999877	.9999929
8	.9999420	.9999649
9	.9997660	.9998530
10	.9991839	.9994675
11	.9975060	.9983111
12	.9932557	.9952623
13	.9837275	.9881406
14	.9647141	.9733740

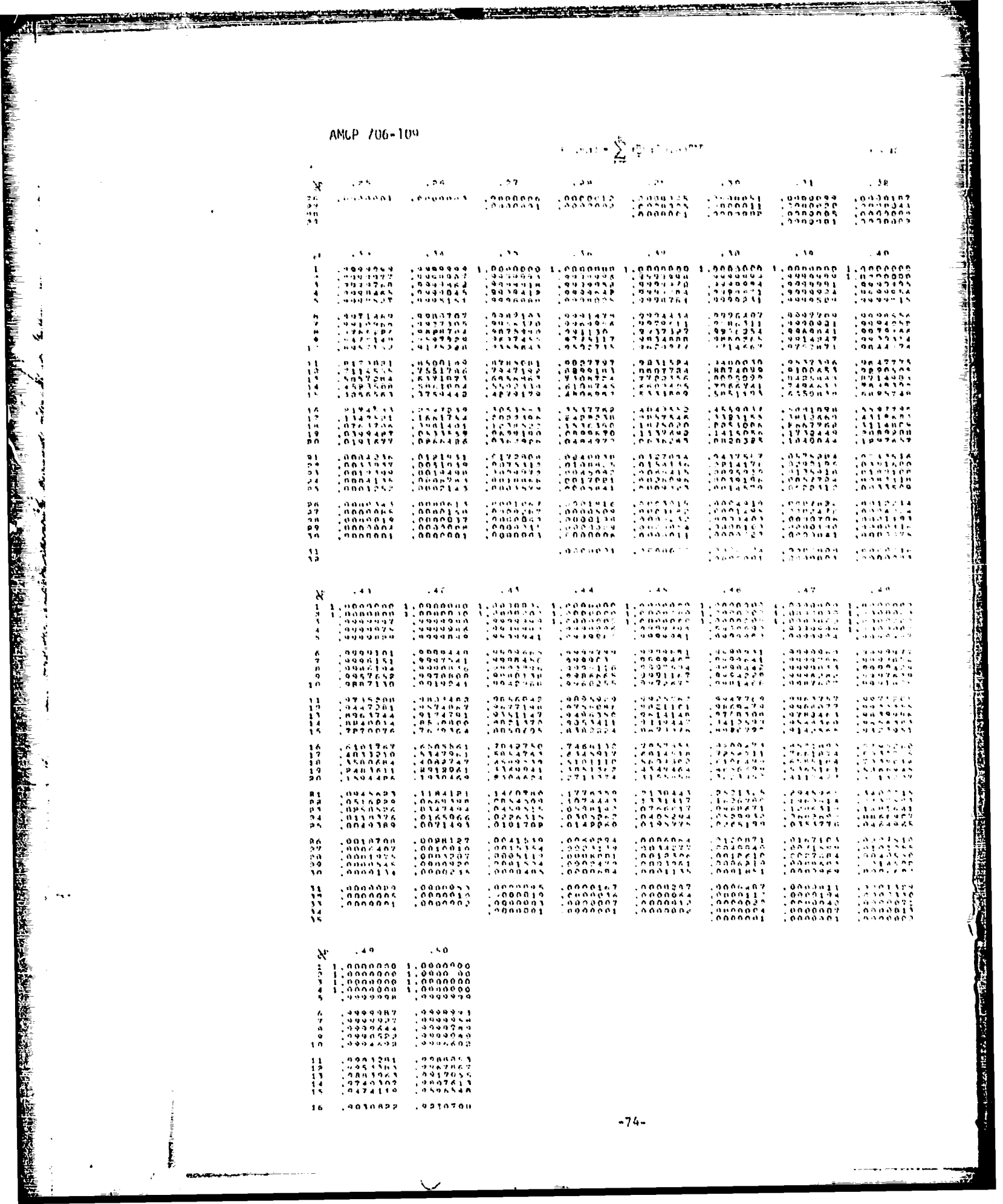
$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 39$$

c/p	.49	.50
15	.9307883	.9459355
16	.8761626	.9003046
17	.7981697	.8316088
18	.6963979	.7388013
19	.5768888	.6255709
20	.4499785	.5000000
21	.3300456	.3746293
22	.2330517	.2611907
23	.1587303	.1683918
24	.1045600	.0997954
25	.0416600	.0540645
26	.0190119	.0266860
27	.0075088	.0118514
28	.0028800	.0047377
29	.0011270	.0016889
30	.0003403	.0005325
31	.0000910	.0001470
32	.0000209	.0000351
33	.0000041	.0000071
34	.0000007	.0000012
35	.0000001	.0000002

$$P(c,r,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n	r	.01	.02	.03	.04	.05	.06	.07	.08
1	1	.1000000	.2000000	.3000000	.4000000	.5000000	.6000000	.7000000	.8000000
2	1	.1900000	.3600000	.5100000	.6400000	.7500000	.8400000	.9100000	.9600000
	2	.0100000	.0400000	.0900000	.1600000	.2500000	.3600000	.4900000	.6400000
3	1	.2710000	.4880000	.6570000	.7840000	.8750000	.9360000	.9730000	.9920000
	2	.0280000	.1040000	.2160000	.3520000	.5000000	.6480000	.7840000	.8960000
	3	.0010000	.0080000	.0270000	.0640000	.1250000	.2160000	.3430000	.5120000
4	1	.3439000	.5904000	.7599000	.8704000	.9375000	.9744000	.9919000	.9984000
	2	.0523000	.1792000	.3483000	.5248000	.6875000	.8208000	.9163000	.9728000
	3	.0037000	.0272000	.0837000	.1792000	.3125000	.4752000	.6517000	.8192000
	4	.0001000	.0016000	.0081000	.0256000	.0625000	.1296000	.2401000	.4096000
5	1	.4095100	.6723200	.8319300	.9222400	.9687500	.9898400	.9976300	.9996800
	2	.0815900	.2627200	.5177700	.7382400	.8906250	.9630400	.9units00	.9933600
	3	.0086100	.0579200	.1935300	.4096000	.6562500	.8370400	.9420700	.9830400
	4	.0005000	.0067200	.0428700	.1536000	.3437500	.5904000	.7828300	.9420800
	5	.0000100	.0003200	.0024300	.0102400	.0312500	.0776800	.1680100	.3276800
6	1	.4685610	.7256064	.8817441	.9533440	.9843750	.9961344	.9994103	.9999360
	2	.1143390	.3953408	.6809373	.8810496	.9648438	.9929664	.9991497	.9999040
	3	.0159840	.0973248	.3240783	.6553600	.8906250	.9777216	.9953292	.9994240
	4	.0013140	.0146432	.0705663	.2457600	.5781250	.8652864	.9765892	.9961344
	5	.0000600	.0012288	.0095823	.0614400	.2343750	.5904000	.8907300	.9830400
	6	.0000010	.0000640	.0007290	.0096000	.0468750	.1861760	.5339210	.8388608
7	1	.5217031	.7837683	.9170041	.9748224	.9921875	.9991066	.9999177	.9999936
	2	.1497579	.4705882	.7662387	.9420672	.9375000	.9953664	.9998313	.9999872
	3	.0257903	.1976471	.5551663	.8773248	.7734375	.9887232	.9987567	.9999488
	4	.0027783	.0419765	.2436726	.6291456	.9062500	.9672448	.9943811	.9999040
	5	.0001900	.0054118	.0706327	.2580480	.5468750	.8705664	.9871633	.9996288
	6	.0000079	.0004202	.0036741	.0466944	.2187500	.5981184	.8822353	.9961344
	7	.0000001	.0000168	.0001701	.0037632	.0546875	.2660544	.5782157	.8947848
8	1	.5730342	.8329728	.9420847	.9827738	.9960938	.9995622	.9999756	.9999984
	2	.1869588	.5289415	.8201790	.9623578	.8554688	.9895987	.9992538	.9999923
	3	.0381389	.2553306	.6174163	.8938193	.6367188	.9648614	.9971767	.9999725
	4	.0046525	.0799178	.3215339	.7326679	.3632812	.9082829	.9919254	.9999267
	5	.0003847	.0076424	.0953643	.4538714	.1445313	.7764215	.9725170	.9996288
	6	.0000194	.0004416	.0013278	.1468762	.0312500	.4557773	.8857125	.9985970
	7	.0000004	.0000147	.0000750	.0331776	.0039063	.1488134	.5967347	.9663597
	8	.0000000	.0000002	.0000002	.0039322	.0003906	.0390700	.1678080	.5033984
9	1	.6302494	.8658128	.9576377	.9897357	.9980469	.9997311	.9999919	.9999998
	2	.2262770	.6postage	.8658128	.9743178	.9726563	.9974154	.9999155	.9999970
	3	.0525788	.3697728	.7547157	.9460823	.8984375	.9920424	.9994846	.9999902
	4	.0071744	.0978048	.4557773	.8702822	.7460938	.9726142	.9978988	.9999622
	5	.0006283	.0176532	.1722551	.6865997	.5000000	.9231898	.9911650	.9998855
	6	.0000340	.0021609	.0267724	.3855590	.2539063	.7748997	.9667420	.9996288
	7	.0000010	.0001586	.0023167	.1468762	.0898438	.4557773	.8822353	.9983436
	8	.0000000	.0000067	.0001299	.0331776	.0175781	.1663078	.5967347	.9663597
	9	.0000000	.0000002	.0000040	.0046656	.0019531	.0299594	.1628134	.4966058
10	1	.6695619	.8926258	.9648324	.9benefit	.9990234	.9998926	.9999960	.9999998
	2	.2639011	.6778240	.8891588	.9804979	.9453125	.9983770	.9999477	.9999996
	3	.0702730	.4squeeze	.7827893	.9526822	.8281250	.9872948	.9998309	.9999986
	4	.0112668	.1209324	.5138712	.8337613	.6230469	.9672448	.9987567	.9999849
	5	.0012337	.0197413	.2522783	.6331622	.3769531	.9218612	.9936489	.9999547
	6	.0000988	.0028311	.0849347	.3822106	.1718750	.7884480	.9benefit	.9998855
	7	.0000055	.0002715	.0159661	.1662796	.0546875	.4557773	.8822353	.9983436
	8	.0000002	.0000163	.0005607	.0368640	.0107422	.1535386	.5846006	.9596557
	9	.0000000	.0000005	.0000112	.0035389	.0009766	.0260112	.1493312	.4907229
	10	.0000000	.0000000	.0000002	.0001638	.0000977	.0060466	.0282475	.1073742
11	1	.6927884	.9avoid	.9802722	.9940358	.9990234	.9998926	.9999960	.9999998
	2	.3013679	.7568888	.9abstract	.9861817	.9648438	.9987567	.9999664	.9999998
	3	.0859657	.5committee	.8529651	.9648324	.8872070	.9901206	.9999664	.9999998
	4	.0185948	.2362368	.6paragraph	.8broadcast	.6572266	.9726142	.9991650	.9999962
	5	.0028264	.0478297	.2virtue	.6quantity	.4012451	.9218612	.9963436	.9999849
	6	.0002957	.0063105	.0566503	.3221225	.1611328	.7884480	.9benefit	.9998855
	7	.0000197	.0005609	.0043527	.1612326	.0537109	.4557773	.8822353	.9983436
	8	.0000007	.0000301	.0002351	.0328204	.0104980	.1535386	.5846006	.9596557
	9	.0000000	.0000010	.0000078	.0035389	.0009766	.0260112	.1493312	.4907229
	10	.0000000	.0000000	.0000001	.0001638	.0000977	.0060466	.0282475	.1073742
	11	.0000000	.0000000	.0000000	.0000073	.0000061	.0010086	.0036520	.0173946
12	1	.7176194	.9abstract	.9816843	.9942581	.9990234	.9998926	.9999960	.9999998
	2	.3409610	.7paragraph	.9abstract	.9872948	.9655762	.9987567	.9999664	.9999998
	3	.0988712	.6quantity	.8816842	.9683772	.8955078	.9904206	.9999664	.9999998
	4	.0213747	.2siege	.6quantity	.8broadcast	.6682129	.9736142	.9991650	.9999962
	5	.0032315	.0540360	.2siege	.6quantity	.4119263	.9218612	.9963436	.9999849
	6	.0002957	.0071744	.0643173	.3276800	.1665039	.7884480	.9benefit	.9998855
	7	.0000269	.0006337	.0049417	.1612326	.0537109	.4557773	.8822353	.9983436
	8	.0000012	.0000340	.0002656	.0328204	.0104980	.1535386	.5846006	.9596557
	9	.0000000	.0000019	.0000088	.0035389	.0009766	.0260112	.1493312	.4907229
	10	.0000000	.0000000	.0000002	.0001638	.0000977	.0060466	.0282475	.1073742
	11	.0000000	.0000000	.0000000	.0000073	.0000061	.0010086	.0036520	.0173946
	12	.0000000	.0000000	.0000000	.0000002	.0000003	.0000839	.0003452	.0022518
13	1	.7412574	.9abstract	.9824859	.9945163	.9990234	.9998926	.9999960	.9999998
	2	.3775135	.7abstract	.9abstract	.9882941	.9655762	.9987567	.9999664	.9999998
	3	.1130400	.7siege	.8824858	.9698766	.8955078	.9904206	.9999664	.9999998
	4	.0260100	.2972160	.7siege	.8broadcast	.6682129	.9736142	.9991650	.9999962
	5	.0043215	.0678240	.2972160	.6quantity	.4119263	.9218612	.9963436	.9999849
	6	.0004320	.0097200	.0810000	.3276800	.1665039	.7884480	.9benefit	.9998855
	7	.0000296	.0008100	.0059049	.1612326	.0537109	.4557773	.8822353	.9983436
	8	.0000014	.0000405	.0003645	.0328204	.0104980	.1535386	.5846006	.9596557
	9	.0000000	.0000012	.0000135	.0035389	.0009766	.0260112	.1493312	.4907229
	10	.0000000	.0000000	.0000003	.0001638	.0000977	.0060466	.0282475	.1073742
	11	.0000000	.0000000	.0000000	.0000073	.0000061	.0010086	.0036520	.0173946
	12	.0000000	.0000000	.0000000	.0000002	.0000003	.0000839	.0003452	.0022518
	13	.0000000	.0000000	.0000000	.0000000	.0000000	.0000073	.0000427	.0003452
14	1	.7536758	.9abstract	.9829873	.9947647	.9990234	.9998926	.9999960	.9999998
	2	.4110423	.7abstract	.9abstract	.9894117	.9655762	.9987567	.9999664	.9999998
	3	.1265600	.7abstract	.8829873	.9711766	.8955078	.9904206	.9999664	.9999998
	4	.0301900	.3abstract	.7abstract	.8broadcast	.6682129	.9736142	.9991650	.9999962
	5	.0054010	.0846300	.3abstract	.6quantity	.4119263	.9218612	.9963436	.9999849
	6	.0006480	.0129600	.0972000	.3276800	.1665039	.7884480	.9benefit	.9998855
	7	.0000463	.0012150	.0078732	.1612326	.0537109	.4557773	.8822353	.9983436
	8	.0000024	.0000709	.0005103	.0328204	.0104980	.1535386	.5846006	.9596557
	9	.0000001	.0000028	.0000243	.0035389	.0009766	.0260112	.1493312	.4907229
	10	.0000000	.0000001	.0000010	.0001638	.0000977	.0060466	.0282475	.1073742
	11	.0000000	.0000000	.0000000	.0000073	.0000061	.0010086	.0036520	.0173946
	12	.0000000	.0000000	.0000000	.0000002	.0000003	.0000839	.0003452	.0022518
	13	.0000000	.0000000	.0000000	.0000000	.0000000	.0000073	.0000427	.0003452
	14	.0000000	.0000000	.0000000	.0000000	.0000000	.0000004	.0000035	.0000359
15	1	.7536758	.9abstract	.9829873	.9947647	.9990234	.9998926	.9999960	.9999998
	2	.4110423	.7abstract	.9abstract	.9894117	.9655762	.9987567	.9999664	.9999998
	3	.1265600	.7abstract	.8829873	.9711766	.8955078	.9904206	.9999664	.9999998
	4	.0301900	.3abstract	.7abstract	.8broadcast	.6682129	.9736142	.9991650	.9999962
	5	.0054010	.0846300	.3abstract	.6quantity	.4119263	.9218612	.9963436	.9999849
	6	.0006480	.0129600	.0972000	.3276800	.1665039	.7884480	.9benefit	.9998855
	7	.0000463	.0012150	.0078732	.1612326	.0537109	.4557773	.8822353	.9983436
	8	.0000024	.0000709	.0005103	.0328204	.0104980	.1535386	.5846006	.9596557
	9	.0000001	.0000028	.0000243	.0035389	.0009766	.0260112	.1493312	.4907229
	10	.0000000	.0000001	.0000010	.0001638	.0000977	.0060466	.0282475	.1073742
	11	.0000000	.0000000	.0000000	.0000073	.0000061	.0010086	.0036520	.0173946
	12	.0000000	.0000000	.0000000	.0000002	.0000003	.0000839	.0003452	.0022518
	13	.0000000	.0000000	.0000000	.0000000	.0000000	.0000073	.0000427	.0003452
	14	.0000000	.0000000	.0000000	.0000000	.0000000	.0000004	.0000035	.0000359
	15	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000002	.0000033

n	r	.09	.10	.11	.12	.13	.14	.15	.16
1	1	.9000000	.9000000	.9000000	.9000000	.9000000	.9000000	.9000000	.9000000
2	1	.9900000	.9900000	.9900000	.9900000	.9900000	.9900000	.9900000	.9900000
	2	.8100000	.8100000	.8100000	.8100000	.8100000	.8100000	.8100000	.8100000
3	1	.9990000	.9990000	.9990000	.9990000	.9990000	.9990000	.9990000	.9990000
	2	.9720000	.9720000	.9720000	.9720000	.9720000	.9720000	.9720000	.9720000
	3	.7290000	.7290000	.7290000	.7290000	.7290000	.7290000	.7290000	.7290000
4	1	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	2	.9963000	.9963000	.9963000	.9963000	.9963000	.9963000	.9963000	.9963000	.9963000
	3	.9477000	.9477000	.9477000	.9477000	.9477000	.9477000	.9477000	.9477000
	4	.6561000	.6561000	.6561000	.6561000	.6561000	.6561000	.6561000	.6561000
5	1	.9999900	.9999900	.9999900	.9999900	.9999900	.9999900	.9999900	.9999900
	2	.9995400	.9995400	.9995400	.9995400	.9995400	.9995400	.9995400	.9995400
	3	.9914700	.9914700	.9914700	.9914700	.9914700	.9914700	.9914700	.9914700
	4	.9185400	.9185400	.9185400	.9185400	.9185400	.9185400	.9185400	.9185400
	5	.5904900	.5904900	.5904900	.5904900	.5904900	.5904900	.5904900	.5904900
6	1	.9999990	.9999990	.9999990	.9999990	.9999990	.9999990	.9999990	.9999990
	2	.9999360	.9999360	.9999360	.9999360	.9999360	.9999360	.9999360	.9999360
	3	.9987300	.9987300	.9987300	.9987300	.9987300	.9987300	.9987300	.9987300
	4	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	5	.8857800	.8857800	.8857800	.8857800	.8857800	.8857800	.8857800	.8857800
	6	.5314700	.5314700	.5314700	.5314700	.5314700	.5314700	.5314700	.5314700
7	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999840	.9999840	.9999840	.9999840	.9999840	.9999840	.9999840	.9999840
	3	.9996300	.9996300	.9996300	.9996300	.9996300	.9996300	.9996300	.9996300
	4	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	5	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	6	.9298800	.9298800	.9298800	.9298800	.9298800	.9298800	.9298800	.9298800
	7	.6983700	.6983700	.6983700	.6983700	.6983700	.6983700	.6983700	.6983700
8	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9998900	.9998900	.9998900	.9998900	.9998900	.9998900	.9998900	.9998900
	4	.9989200	.9989200	.9989200	.9989200	.9989200	.9989200	.9989200	.9989200
	5	.9936500	.9936500	.9936500	.9936500	.9936500	.9936500	.9936500	.9936500
	6	.9672400	.9672400	.9672400	.9672400	.9672400	.9672400	.9672400	.9672400
	7	.8822400	.8822400	.8822400	.8822400	.8822400	.8822400	.8822400	.8822400
	8	.5904900	.5904900	.5904900	.5904900	.5904900	.5904900	.5904900	.5904900
9	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	4	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000
	5	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	6	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	7	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200
	8	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100
	9	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900
10	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	4	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000
	5	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	6	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	7	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200
	8	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100
	9	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900
	10	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000
11	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	4	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000
	5	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	6	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	7	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200
	8	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100
	9	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900
	10	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000
	11	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000
12	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	4	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000
	5	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	6	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	7	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200
	8	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100
	9	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900
	10	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000
	11	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000
	12	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000
13	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	4	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000
	5	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	6	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	7	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200
	8	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100
	9	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900
	10	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000
	11	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000
	12	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000
	13	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000
14	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	4	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000
	5	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	6	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	7	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200
	8	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100
	9	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900
	10	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000
	11	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000
	12	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000
	13	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000
	14	.0000100	.0000100	.0000100	.0000100	.0000100	.0000100	.0000100	.0000100
15	1	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
	2	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960	.9999960
	3	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000	.9999000
	4	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000	.9991000
	5	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600	.9963600
	6	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200	.9841200
	7	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200	.9453200
	8	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100	.7748100
	9	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900	.4782900
	10	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000	.1853000
	11	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000	.0313000
	12	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000	.0031000
	13	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000	.0002000
	14	.0000100	.0000100	.0000100	.0000100	.0000100	.0000100	.0000100	.0000100
	15	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000



$$P(c;n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 40$$

c	.49	.50
17	.8105332	.8659064
18	.7482661	.7853047
19	.6754480	.6920860
20	.5929853	.5926853
21	.5037037	.4971147
22	.4119887	.4079140
23	.3219578	.3147953
24	.2384514	.2340936
25	.1660310	.1678100
26	.1070175	.1101452
27	.0640473	.0682387
28	.0358421	.0392945
29	.0187820	.0211133
30	.0092268	.0107107
31	.0042142	.0051998
32	.0017553	.0023911
33	.0006124	.0010211
34	.0001924	.0004042
35	.0000504	.0001407
36		.0000401

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 41

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.3371180	.5632136	.7131591	.8124485	.8779135	.9208881	.9489729	.9672432
2	.0634395	.1977395	.3494330	.4920480	.6144635	.7138505	.7915022	.8504503
3	.0080208	.0485661	.1244477	.2250476	.3371478	.4495471	.5544495	.6473540
4	.0007537	.0089895	.0339898	.0804224	.1474055	.2302316	.3224947	.4177578
5	.0000555	.0013165	.0074119	.0231749	.0525343	.0972424	.1566345	.2280914
6	.0000033	.0001577	.0013291	.0055236	.0155845	.0344262	.0642522	.1060453
7	.0000002	.0000158	.0002004	.0011100	.0039162	.0103689	.0225311	.0423690
8		.0000014	.0000258	.0001914	.0008455	.0026911	.0068297	.0146836
9		.0000001	.0000029	.0000286	.0001587	.0006083	.0018069	.0044521
10			.0000003	.0000038	.0000261	.0001208	.0004207	.0011894
11				.0000004	.0000038	.0000212	.0000868	.0002821
12					.0000005	.0000033	.0000160	.0000597
13					.0000001	.0000005	.0000026	.0000113
14						.0000001	.0000004	.0000019
15							.0000001	.0000003

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9790735	.9866972	.9915862	.9947059	.9966865	.9979373	.9987230	.9992139
2	.8942175	.9260956	.9489502	.9651073	.9763864	.9841700	.9894839	.9930753
3	.7263707	.7914253	.8435578	.8843837	.9157196	.9393461	.9560751	.9676898
4	.5105677	.5969016	.6742193	.7412827	.7978725	.8444862	.8820660	.9117829
5	.3078076	.3915710	.4753894	.5559020	.6305838	.6977843	.7566527	.8069991
6	.1594140	.2227436	.2935382	.3688359	.4456048	.5210598	.5928760	.6590038
7	.0713563	.1101920	.1586822	.2157819	.2797616	.3484451	.4194669	.4905051
8	.0278112	.0476634	.0753443	.1114269	.1558557	.2079447	.2664583	.3297523
9	.0095079	.0181360	.0315684	.0509484	.0771684	.1107381	.1517017	.1996158
10	.0028705	.0061063	.0117300	.0207091	.0340562	.0527155	.0774475	.1087269
11	.0007699	.0018291	.0038837	.0075138	.0134416	.0224898	.0355157	.0533279
12	.0001844	.0004897	.0011500	.0024429	.0047606	.0086231	.0146620	.0235899
13	.0000396	.0001177	.0003063	.0007142	.0015178	.0029796	.0054618	.0094290
14	.0000077	.0000255	.0000735	.0001883	.0004368	.0009302	.0018400	.0034114
15	.0000013	.0000050	.0000159	.0000449	.0001137	.0002630	.0005617	.0011196
16	.0000002	.0000009	.0000031	.0000097	.0000269	.0000674	.0001556	.0003337
17		.0000001	.0000006	.0000019	.0000058	.0000157	.0000332	.0000005
18			.0000001	.0000003	.0000011	.0000033	.0000090	.0000223
19				.0000001	.0000002	.0000006	.0000019	.0000050
20						.0000001	.0000004	.0000010
21							.0000001	.0000002

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9925189	.9957073	.9978230	.9988937	.9993365	.9995623	.9996778	.9997870
2	.9554792	.9770734	.9901211	.9958037	.9982445	.9992568	.9997061	.9998980
3	.8789307	.9255096	.9601368	.9833539	.9955657	.9970702	.9988027	.9996573
4	.7934860	.8525106	.9157896	.9756419	.9828528	.9880623	.9917792	.9943991
5	.6491314	.7836955	.8715345	.9335760	.9507487	.9639260	.9738917	.9813245
6	.5191838	.6219131	.7173583	.8557540	.8875971	.9135490	.9343534	.9507712
7	.3994891	.4746874	.5646140	.7390211	.7868743	.8282958	.8634926	.8928808
8	.2959465	.3630982	.4293608	.5931050	.6530023	.7080668	.7576615	.8014748
9	.2135853	.2723473	.3143874	.4380691	.5017607	.5639462	.6233110	.6787983
10	.1466716	.1910112	.2410975	.2959529	.3543481	.4140985	.4761652	.5367519
11	.0965980	.1257800	.1610478	.1922599	.2289541	.2803733	.3355167	.3932103
12	.0581503	.0780538	.0749095	.1021580	.1350168	.1734430	.2171196	.2654651
13	.0334391	.0441107	.0561247	.0720943	.0925201	.0980434	.1287062	.1646136
14	.0179761	.0239498	.0158299	.0241742	.0355717	.0506027	.0697933	.0935685
15	.0090996	.0037292	.0063088	.0102142	.0158911	.0238412	.0345987	.0488978
16	.0006705	.0012714	.0022888	.0039321	.0064742	.0102547	.0156758	.0231924
17	.0001948	.0003946	.0007565	.0013801	.0024065	.0040275	.0064908	.0101041
18	.0000516	.0001135	.0002280	.0004418	.0008164	.0014445	.0024562	.0040260
19	.0000124	.0000298	.0000626	.0001290	.0002528	.0004732	.0008493	.0014667
20	.0000027	.0000068	.0000157	.0000344	.0000715	.0001415	.0002683	.0004804
21	.0000005	.0000014	.0000036	.0000084	.0000184	.0000386	.0000774	.0001486
22	.0000001	.0000003	.0000007	.0000019	.0000043	.0000096	.0000204	.0000413
23		.0000001	.0000001	.0000004	.0000009	.0000022	.0000049	.0000104
24				.0000001	.0000002	.0000005	.0000011	.0000024
25						.0000001	.0000002	.0000005
26								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999025	.9999956	.9999975	.9999986	.9999992	.9999996	.9999998	.9999999
2	.9998894	.9999330	.9999597	.9999760	.9999859	.9999917	.9999952	.9999972
3	.9992023	.9994926	.9996804	.9998006	.9998768	.9999246	.9999543	.9999726
4	.9962243	.9974813	.9983373	.9989137	.9992977	.9995506	.9997155	.9998217
5	.9867944	.9907678	.9936179	.9956372	.9970505	.9980280	.9986961	.9991473
6	.9635340	.9733128	.9807012	.9862080	.9902584	.9931991	.9953069	.9967980
7	.9170131	.9365156	.9520365	.9642067	.9736130	.9807819	.9861710	.9901679
8	.8394788	.8718720	.8990266	.9214263	.9396189	.9541737	.9656483	.9745657
9	.7296372	.7753434	.8156993	.8507198	.8806080	.9057087	.9264618	.9433612
10	.5953871	.6509866	.7026930	.7499875	.7922302	.8295495	.8619083	.8895183
11	.4521870	.5111693	.5689448	.6244299	.6767167	.7251025	.7691008	.8084371
12	.3176657	.3727261	.4295328	.4869224	.5437504	.5982522	.6515936	.7009069
13	.2055646	.2511207	.3006244	.3532345	.4079749	.4637912	.5196109	.5744008
14	.1220074	.1538098	.1842647	.2372575	.2843619	.3345714	.3873339	.4415901
15	.0666359	.0888320	.1165878	.1470531	.1832005	.2238115	.2684763	.3166073
16	.0338930	.0464740	.0638083	.0839100	.1088991	.1383682	.1723566	.2107327
17	.0162382	.0228899	.0317368	.0440071	.0595888	.0788630	.1021824	.1297698
18	.0063789	.0097941	.0146035	.0211868	.0299603	.0413597	.0558183	.0737401
19	.0024441	.0039402	.0061591	.0093541	.0138279	.0199293	.0280446	.0385848
20	.0008564	.0014504	.0023783	.0037837	.0058514	.0088113	.0129396	.0185573
21	.0002742	.0004882	.0008401	.0014008	.0022676	.0035699	.0054747	.0081904
22	.0000802	.0001501	.0002712	.0004741	.0008038	.0013236	.0021209	.0033119
23	.0000214	.0000421	.0000799	.0001465	.0002602	.0004484	.0007511	.0012849

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 41

c	.25	.26	.27	.28	.29	.30	.31	.32
24	.0000052	.0000108	.0000215	.0000413	.0000768	.0001386	.0002427	.0004135
25	.0000011	.0000025	.0000052	.0000106	.0000206	.0000390	.0000714	.0001272
26	.0000002	.0000005	.0000012	.0000025	.0000050	.0000100	.0000191	.0000355
27		.0000001	.0000002	.0000005	.0000011	.0000023	.0000046	.0000090
28				.0000001	.0000002	.0000005	.0000010	.0000021
29						.0000001	.0000002	.0000004
30								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999984	.9999991	.9999995	.9999997	.9999999	.9999999	1.0000000	1.0000000
3	.9999837	.9999904	.9999944	.9999968	.9999982	.9999990	.9999994	.9999997
4	.9998895	.9999322	.9999589	.9999753	.9999854	.9999914	.9999950	.9999972
5	.9994486	.9996474	.9997771	.9998607	.9999139	.9999475	.9999683	.9999811
6	.9978418	.9985618	.9990520	.9993835	.9996035	.9997481	.9998419	.9999020
7	.9930932	.9952062	.9967127	.9977729	.9985096	.9990148	.9993560	.9995854
8	.9813989	.9865629	.9904123	.9932432	.9952972	.9967676	.9978062	.9985300
9	.9569194	.9676392	.9759942	.9824144	.9872790	.9909141	.9935929	.9955398
10	.9127101	.9318947	.9475277	.9600799	.9700184	.9777594	.9837150	.9882306
11	.8430310	.8729702	.8984778	.9198778	.9375621	.9519592	.9635081	.9726375
12	.7463123	.7874243	.8240453	.8561484	.8838530	.9073953	.9270983	.9433413
13	.6272183	.6772515	.7238478	.7665290	.8049943	.8391119	.8689022	.8945144
14	.4963654	.5506427	.6034922	.6540730	.7016707	.7455517	.7859013	.8219000
15	.3674655	.4201973	.4730784	.5275616	.5803240	.6313101	.6797689	.7250808
16	.2531871	.2992308	.3402520	.3794681	.4520347	.5050552	.5576297	.6088978
17	.1617217	.1979819	.2303304	.2823827	.3295998	.3793094	.4307351	.4830329
18	.0954715	.1212721	.1512079	.1855209	.2238555	.2659712	.3114272	.3596359
19	.0519639	.0685826	.0879566	.1128885	.1410504	.1733507	.2097221	.2499496
20	.0260235	.0357251	.0480619	.0634262	.0821806	.1046323	.1310082	.1614309
21	.0119691	.0171059	.0239349	.0328214	.0441408	.0583028	.0756504	.0965172
22	.0050468	.0075142	.0109435	.0156062	.0211127	.0299073	.0402577	.0532414
23	.0019473	.0030222	.0045841	.0068029	.0098872	.0140857	.0196866	.0270136
24	.0006862	.0011106	.0017553	.0027123	.0041014	.0060751	.0088220	.0125694
25	.0002203	.0003720	.0006129	.0009866	.0015529	.0023920	.0036123	.0053478
26	.0000643	.0001133	.0001946	.0003265	.0005351	.0008501	.0013473	.0020732
27	.0000170	.0000313	.0000560	.0000930	.0001673	.0002792	.0004562	.0007300
28	.0000041	.0000078	.0000146	.0000266	.0000473	.0000822	.0001397	.0002325
29	.0000009	.0000017	.0000034	.0000065	.0000120	.0000218	.0000385	.0000667
30	.0000002	.0000004	.0000007	.0000014	.0000027	.0000052	.0000095	.0000171
31		.0000001	.0000001	.0000003	.0000006	.0000011	.0000021	.0000039
32					.0000001	.0000002	.0000004	.0000008
33							.0000001	.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999984	.9999991	.9999995	.9999997	.9999999	.9999999	1.0000000	1.0000000
5	.9999889	.9999935	.9999963	.9999979	.9999988	.9999994	.9999996	.9999998
6	.9999400	.9999637	.9999784	.9999873	.9999926	.9999958	.9999976	.9999987
7	.9997361	.9998342	.9998972	.9999371	.9999621	.9999774	.9999868	.9999924
8	.9990277	.9993653	.9995911	.9997402	.9998371	.9998994	.9999387	.9999632
9	.9969354	.9979220	.9986097	.9990824	.9994027	.9996167	.9997575	.9998408
10	.9916044	.9940899	.9958951	.9971875	.9980995	.9987338	.9991684	.9994618
11	.9797496	.9852101	.9903420	.9924232	.9946875	.9963270	.9974966	.9983185
12	.9565331	.9670886	.9754100	.9818737	.9868201	.9905492	.9933187	.9953443
13	.9161094	.9342823	.9491349	.9611514	.9707277	.9782447	.9840562	.9884808
14	.8536744	.8812076	.9049174	.9248304	.9413562	.9540625	.9657328	.9743477
15	.7667751	.8045367	.8382034	.8677546	.8932938	.9150262	.9332349	.9482558
16	.6580774	.7044958	.7476127	.7870331	.8225110	.8539439	.8813608	.9049032
17	.5353319	.5867753	.6365597	.6839691	.7284020	.7593901	.8066082	.8398742
18	.4094940	.4614137	.5133585	.5648825	.6151692	.6634677	.7091229	.7515995
19	.2916691	.3403749	.3894368	.4401251	.4916426	.5431607	.5930572	.6429538
20	.1958892	.2342738	.2762710	.3214649	.3692901	.4191014	.4701212	.5215521
21	.1211632	.1497547	.1823633	.2189086	.2591880	.3028532	.3494302	.3982827
22	.0692280	.0885582	.1115306	.1383286	.1690079	.2038271	.2423835	.2844955
23	.0364184	.0482694	.0629363	.0807715	.1020887	.1271401	.1560932	.1890098
24	.0175838	.0241686	.0326591	.0434130	.0567980	.0731752	.0928797	.1161979
25	.0077674	.0110794	.0155286	.0213981	.0290059	.0386977	.0508367	.0657897
26	.0031287	.0046341	.0067409	.0096359	.0135434	.0187262	.0254840	.0341489
27	.0011450	.0017619	.0026614	.0039487	.0057581	.0082568	.0116486	.0161754
28	.0003792	.0006064	.0009516	.0014662	.0022193	.0033032	.0048324	.0069583
29	.0001131	.0001841	.0003067	.0004909	.0007716	.0011919	.0018101	.0027041
30	.0000302	.0000523	.0000886	.0001474	.0002407	.0003860	.0006087	.0009438
31	.0000072	.0000129	.0000228	.0000394	.0000669	.0001115	.0001825	.0002938
32	.0000015	.0000028	.0000052	.0000093	.0000164	.0000285	.0000484	.0000810
33	.0000003	.0000005	.0000010	.0000019	.0000035	.0000064	.0000113	.0000195
34		.0000001	.0000002	.0000003	.0000007	.0000012	.0000023	.0000041
35				.0000001	.0000001	.0000002	.0000004	.0000007
36							.0000001	.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	.9999999	.9999999
6	.9999993	.9999996
7	.9999957	.9999976
8	.9999782	.9999873
9	.9999072	.9999439
10	.9996569	.9997646

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 41$$

c \ p	.49	.50
11	.9988872	.9992748
12	.9960033	.9978380
13	.9917979	.9942461
14	.9810698	.9862334
15	.9604551	.9702081
16	.9248038	.9413624
17	.8691422	.8944882
18	.7904970	.8255556
19	.6897489	.7336454
20	.5725733	.6221857
21	.4487348	.5000000
22	.3297527	.3778143
23	.2258289	.2663546
24	.1433455	.1744444
25	.0839090	.1055118
26	.0450771	.0586376
27	.0221177	.0297919
28	.0098626	.0137666
29	.0039754	.0057539
30	.0014398	.0021620
31	.0004654	.0007252
32	.0001331	.0002154
33	.0000334	.0000561
34	.0000073	.0000127
35	.0000013	.0000024
36	.0000002	.0000004
37		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 42$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.3443408	.5719493	.7217643	.8199506	.8840178	.9256348	.9525448	.9698638
2	.0661823	.2050188	.3603448	.5048640	.6276360	.7262727	.8025251	.8598011
3	.0085939	.0515495	.1311973	.2357276	.3510136	.4654053	.5710431	.6636023
4	.0008265	.0097810	.0367035	.0862074	.1568926	.2433905	.3387315	.4361255
5	.0000625	.0014700	.0082092	.0234648	.0572779	.1052217	.1682447	.2432648
6	.0000039	.0001809	.0015116	.0062296	.0174320	.0381952	.0707189	.1150089
7	.0000002	.0000187	.0002343	.0012873	.0044996	.0118124	.0254516	.0474631
8		.0000016	.0000311	.0002282	.0009991	.0031518	.0079280	.0160985
9		.0000001	.0000036	.0000351	.0001930	.0007332	.0021585	.0052706
10			.0000004	.0000047	.0000328	.0001501	.0005177	.0014509
11				.0000006	.0000049	.0000272	.0001101	.0003547
12				.0000001	.0000007	.0000044	.0000309	.0000775
13					.0000001	.0000006	.0000036	.0000152
14						.0000001	.0000005	.0000027
15							.0000001	.0000004
16								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9809569	.9880275	.9925118	.9953412	.9971172	.9982261	.9989146	.9993397
2	.9018546	.9321557	.9536402	.9686591	.9790554	.9860974	.9908698	.9940575
3	.7414769	.8048923	.8551509	.8940705	.9236063	.9456214	.9617664	.9734315
4	.5299899	.6163540	.6928466	.7584548	.8131926	.8577666	.8932880	.9210480
5	.3260560	.4121041	.4972607	.5781477	.6523313	.7183226	.7754648	.8237645
6	.1727694	.2396264	.3139410	.3912839	.4696521	.5458012	.6174432	.6829350
7	.0792815	.1214472	.1735164	.2341484	.3013212	.3726111	.4454784	.5175163
8	.0317303	.0539163	.0845114	.1239495	.1719635	.2276148	.2944096	.3554734
9	.0111552	.0210887	.0363838	.0582058	.0873978	.1243470	.1689152	.2204377
10	.0034679	.0073092	.0139122	.0243379	.0396608	.0608387	.0885857	.1232691
11	.0009580	.0022568	.0047468	.0090973	.0161215	.0267714	.0418055	.0621917
12	.0002371	.0006237	.0014514	.0030514	.0058892	.0105644	.0177900	.0283480
13	.0000526	.0001549	.0003992	.0009216	.0019393	.0037697	.0068410	.0116947
14	.0000105	.0000347	.0000991	.0002514	.0005773	.0012171	.0023832	.0043746
15	.0000019	.0000070	.0000223	.0000621	.0001557	.0003564	.0007534	.0014864
16	.0000003	.0000013	.0000045	.0000139	.0000382	.0000948	.0002165	.0004595
17		.0000002	.0000008	.0000028	.0000085	.0000230	.0000567	.0001294
18			.0000001	.0000005	.0000017	.0000051	.0000135	.0000332
19				.0000001	.0000003	.0000010	.0000029	.0000078
20					.0000001	.0000002	.0000006	.0000017
21							.0000001	.0000003
22								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9996007	.9997600	.9998567	.9999149	.9999488	.9999706	.9999829	.9999901
2	.9961650	.9975475	.9984445	.9990217	.9993809	.9996226	.9997686	.9998593
3	.9817440	.9875911	.9916530	.9944438	.9963383	.9976106	.9984561	.9990121
4	.9423586	.9584534	.9704156	.9791843	.9855225	.9900441	.9932290	.9954451
5	.8637067	.8960822	.9218430	.9419892	.9574906	.9692360	.9780058	.9844624
6	.7412749	.7920339	.8352518	.8713184	.9008390	.9246320	.9434472	.9581040
7	.5866372	.6511880	.7099974	.7623677	.8080261	.8470515	.8797306	.9067745
8	.4237486	.4921842	.5588969	.6222882	.6811154	.7315172	.7820026	.8234122
9	.2777866	.3394824	.4038323	.4690763	.5335215	.5956528	.6542116	.7082407
10	.1648469	.2128517	.2664226	.3243761	.3853048	.4476890	.5100087	.5708431
11	.0885105	.1211216	.1600573	.2044985	.2552868	.3099688	.3678659	.4276603
12	.0430264	.0625445	.0874758	.1181784	.1547436	.1969676	.2443509	.2961239
13	.0189600	.0293270	.0434938	.0621071	.0856997	.1146313	.1490413	.1888180
14	.0075848	.0125002	.0196859	.0297582	.0433456	.0610396	.0833433	.1106193
15	.0027586	.0048489	.0081178	.0130062	.0200240	.0297288	.0426934	.0594668
16	.0009134	.0017138	.0030526	.0051885	.0081518	.0132437	.0200281	.0293137
17	.0002757	.0005524	.0010477	.0018905	.0032608	.0053974	.0086034	.0132453
18	.0000759	.0001626	.0003284	.0006294	.0011503	.0020128	.0033842	.0054847
19	.0000191	.0000437	.0000941	.0001916	.0003712	.0006869	.0012189	.0020809
20	.0000044	.0000107	.0000246	.0000533	.0001095	.0002145	.0004019	.0007232
21	.0000009	.0000024	.0000059	.0000136	.0000296	.0000613	.0001213	.0002301
22	.0000002	.0000005	.0000013	.0000032	.0000073	.0000160	.0000335	.0000670
23		.0000001	.0000003	.0000007	.0000016	.0000038	.0000085	.0000178
24				.0000001	.0000003	.0000008	.0000019	.0000043
25					.0000001	.0000002	.0000004	.0000010
26							.0000001	.0000002

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999943	.9999968	.9999982	.9999990	.9999994	.9999997	.9999998	.9999999
2	.9999151	.9999493	.9999699	.9999823	.9999897	.9999941	.9999966	.9999981
3	.9993740	.9996071	.9997558	.9998497	.9999084	.9999447	.9999670	.9999805
4	.9969688	.9980043	.9986999	.9991620	.9994656	.9996628	.9997895	.9998700
5	.9891519	.9935133	.9968522	.9965546	.9977022	.9984848	.9990121	.9993632
6	.9693491	.9778511	.9841887	.9888482	.9922281	.9946478	.9963576	.9975504
7	.9286433	.9460829	.9597760	.9703671	.9784402	.9845071	.9890032	.9922898
8	.8588619	.8886794	.9133393	.9330048	.9494772	.9621562	.9720104	.9795584
9	.7570975	.8004408	.8381977	.8705176	.8977212	.9202482	.9386096	.9533467
10	.6289497	.6833194	.7332053	.7781278	.8178598	.8523972	.8819199	.9067480
11	.4879870	.5475218	.6050571	.6595608	.7102156	.7564366	.7970711	.8343830
12	.3512960	.4087214	.4671740	.5254245	.5823106	.6367973	.6880208	.7353165
13	.2315899	.2827381	.3354296	.3906671	.4473498	.5043395	.5605855	.6148828
14	.1430467	.1805895	.2229818	.2697311	.3201387	.3733373	.4283397	.4840950
15	.0805287	.1068458	.1368305	.1723103	.2125083	.2570355	.3053221	.3566043
16	.0416287	.0574870	.0773507	.1015901	.1304465	.1640012	.2021537	.2446126
17	.0197474	.0285777	.0402268	.0551799	.0738845	.0967146	.1239364	.1556779
18	.0085923	.0130430	.0192268	.0275765	.0385508	.0526107	.0701911	.0916696
19	.0034278	.0054622	.0084391	.0126673	.0185063	.0263584	.0366545	.0498341
20	.0012533	.0020978	.0033991	.0053434	.0081646	.0121467	.0176222	.0249659
21	.0004198	.0007384	.0012554	.0020680	.0033069	.0051423	.0077889	.0115079

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 42$$

x	.25	.26	.27	.28	.29	.30	.31	.32
22	.0001287	.0002380	.0004248	.0007336	.0012283	.0019975	.0031606	.0048731
23	.0000361	.0000702	.0001316	.0002383	.0004178	.0007110	.0011758	.0018927
24	.0000092	.0000189	.0000372	.0000707	.0001300	.0002315	.0004003	.0006731
25	.0000022	.0000046	.0000096	.0000192	.0000369	.0000689	.0001245	.0002188
26	.0000005	.0000010	.0000023	.0000047	.0000096	.0000187	.0000353	.0000649
27	.0000001	.0000002	.0000005	.0000011	.0000022	.0000046	.0000091	.0000175
28			.0000001	.0000002	.0000005	.0000010	.0000021	.0000043
29					.0000001	.0000002	.0000004	.0000009
30							.0000001	.0000002

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999989	.9999994	.9999997	.9999998	.9999999	.9999999	1.0000000	1.0000000
3	.9999886	.9999934	.9999962	.9999979	.9999988	.9999993	.9999996	.9999998
4	.9999206	.9999520	.9999713	.9999831	.9999901	.9999943	.9999967	.9999982
5	.9995941	.9997443	.9998407	.9999020	.9999404	.9999642	.9999787	.9999875
6	.9983720	.9989309	.9993063	.9995553	.9997184	.9998240	.9998912	.9999336
7	.9946602	.9963471	.9975317	.9983527	.9989143	.9992934	.9995460	.9997120
8	.9852580	.9895016	.9926174	.9948739	.9964858	.9976215	.9984109	.9989521
9	.9649976	.9740733	.9810406	.9863128	.9902458	.9931384	.9953361	.9967359
10	.9272992	.9440478	.9574910	.9681203	.9764011	.9827582	.9875670	.9911543
11	.8660251	.8830045	.9156453	.9343506	.9495687	.9617633	.9713891	.9788747
12	.7782295	.8165099	.8500967	.8790910	.9037254	.9243296	.9412981	.9550598
13	.6665194	.7147103	.7589169	.7987920	.8341720	.8650596	.8915987	.9140452
14	.5395469	.5936897	.6456166	.6945576	.7399055	.7812285	.8182716	.8509458
15	.4100025	.4645488	.5192433	.5731060	.6252252	.6747979	.7211606	.7638085
16	.2908990	.3403647	.3922218	.4455818	.4995017	.5530321	.6052640	.6553710
17	.1919053	.2324093	.2768033	.3245334	.3749007	.4270928	.4802240	.5333788
18	.1173341	.1473534	.1817527	.2203962	.2629809	.3090397	.3579573	.4089947
19	.0663214	.0864970	.1106679	.1390191	.1716883	.2085465	.2493871	.2938241
20	.0349838	.0468967	.0623187	.0812326	.1039624	.1307453	.1617066	.1968384
21	.0166071	.0234364	.0323794	.0438391	.0582206	.0759080	.0972399	.1224027
22	.0073312	.0107754	.0154905	.0218036	.0300770	.0406976	.0540608	.0705517
23	.0029702	.0045495	.0066099	.0099721	.0142996	.0200979	.0277093	.0375047
24	.0011024	.0017605	.0027454	.0041849	.0062422	.0091191	.0130592	.0183471
25	.0003741	.0006231	.0010128	.0016078	.0024958	.0037921	.0056440	.0082361
26	.0001158	.0002013	.0003410	.0005641	.0009117	.0014413	.0022307	.0033828
27	.0000326	.0000592	.0001045	.0001802	.0003034	.0004992	.0008037	.0012673
28	.0000083	.0000158	.0000291	.0000523	.0000917	.0001570	.0002631	.0004315
29	.0000019	.0000038	.0000073	.0000137	.0000251	.0000447	.0000780	.0001330
30	.0000004	.0000008	.0000017	.0000032	.0000062	.0000115	.0000208	.0000370
31	.0000001	.0000002	.0000003	.0000007	.0000014	.0000026	.0000050	.0000092
32			.0000001	.0000001	.0000003	.0000005	.0000011	.0000020
33						.0000001	.0000002	.0000004
34								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999990	.9999994	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000
5	.9999928	.9999959	.9999977	.9999987	.9999993	.9999996	.9999998	.9999999
6	.9999600	.9999762	.9999861	.9999919	.9999954	.9999974	.9999986	.9999993
7	.9998197	.9998806	.9999321	.9999592	.9999758	.9999859	.9999919	.9999954
8	.9993181	.9995622	.9997227	.9998268	.9998934	.9999353	.9999615	.9999772
9	.9977933	.9985282	.9990317	.9993718	.9995982	.9997467	.9998427	.9999037
10	.9937901	.9956994	.9970624	.9980213	.9986860	.9991399	.9994453	.9996476
11	.9846100	.9889396	.9921598	.9945195	.9962229	.9974341	.9982824	.9988673
12	.9660519	.9746996	.9814008	.9865155	.9903604	.9933070	.9952823	.9967719
13	.9327362	.9480609	.9604332	.9702692	.9779693	.9839048	.9884095	.9917753
14	.8793096	.9035454	.9239309	.9408116	.9545734	.9656103	.9743448	.9811316
15	.8024038	.8367721	.8668904	.8928680	.9149219	.9333509	.9485089	.9607799
16	.7026434	.7465130	.7865667	.8225506	.8543632	.8820418	.9057416	.9257125
17	.5856576	.6362179	.6843125	.7293173	.7707510	.8082849	.8417419	.8711881
18	.4613235	.5140656	.5663350	.6172806	.6661240	.7121920	.7549410	.7939714
19	.3413213	.3912112	.4427331	.4950184	.5472296	.5985019	.6480321	.6951038
20	.2359849	.2788363	.3249323	.3736754	.4243531	.4761686	.5282771	.5798249
21	.1518050	.1852550	.2237436	.2640334	.3087375	.3563274	.4061497	.4574520
22	.0905215	.1142624	.1419329	.1737838	.2096384	.2493791	.2926907	.3391134
23	.0494704	.0651907	.0838275	.1060966	.1322428	.1624161	.1966496	.2349429
24	.0253060	.0342909	.0456783	.0598507	.0771788	.0979991	.1225900	.1511476
25	.0117921	.0165769	.0228947	.0310846	.0415183	.0545573	.0705969	.0899857
26	.0050306	.0073411	.0105196	.0148113	.0205015	.0279131	.0373998	.0493365
27	.0019584	.0029682	.0044156	.0064511	.0092615	.0130728	.0181512	.0248027
28	.0006932	.0010917	.0016668	.0025585	.0038118	.0055813	.0080360	.0113824
29	.0002222	.0003638	.0005840	.0009200	.0014231	.0021626	.0032306	.0047461
30	.0000642	.0001093	.0001824	.0002985	.0004796	.0007567	.0011734	.0017888
31	.0000166	.0000295	.0000511	.0000869	.0001451	.0002378	.0003828	.0006058
32	.0000038	.0000071	.0000128	.0000226	.0000391	.0000666	.0001114	.0001831
33	.0000008	.0000015	.0000028	.0000052	.0000093	.0000165	.0000287	.0000490
34	.0000001	.0000003	.0000005	.0000010	.0000020	.0000036	.0000065	.0000115
35			.0000001	.0000002	.0000004	.0000007	.0000013	.0000023
36					.0000001	.0000001	.0000002	.0000004
37								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	.9999999	1.0000000
6	.9999996	.9999998
7	.9999974	.9999986

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 42

x	.49	.50
8	.9999868	.9999925
9	.9999420	.9999656
10	.9997705	.9998642
11	.9992644	.9995207
12	.9978245	.9985564
13	.9942506	.9960421
14	.9863266	.9902398
15	.9705563	.9762807
16	.9422729	.9557852
17	.8964164	.9179253
18	.8290331	.8600219
19	.7391154	.7796005
20	.6290093	.6780155
21	.5094156	.5611928
22	.3880539	.4398072
23	.2767516	.3219845
24	.1837624	.2203995
25	.1130729	.1399781
26	.0641047	.0820747
27	.0333670	.0442148
28	.0158676	.0217793
29	.0068602	.0097602
30	.0026823	.0039579
31	.0009428	.0014436
32	.0002959	.0004703
33	.0000823	.0001358
34	.0000201	.0000344
35	.0000042	.0000075
36	.0000008	.0000014
37	.0000001	.0000002

$\sum_{r=0}^{n} \binom{n}{r} p^r q^{n-r}$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.3508974	.5805103	.7301114	.8271525	.8838169	.9300967	.9558667	.9722737
2	.0689639	.2123868	.3711873	.5174675	.6404551	.7382344	.8130265	.8686061
3	.0091598	.0546195	.1380717	.2464931	.3648447	.4810574	.5872469	.6792902
4	.0009041	.0106164	.0395383	.0921882	.1665907	.2567114	.3549933	.4543237
5	.0000701	.0016362	.0090641	.0278945	.0622586	.1135119	.1801788	.2586936
6	.0000044	.0002067	.0017126	.0069990	.0194243	.0423168	.0775457	.1360054
7	.0000002	.0000219	.0003726	.0014850	.0051462	.0133953	.0286203	.0529307
8		.0000020	.0000372	.0002706	.0011741	.0036714	.0091554	.0193436
9		.0000002	.0000044	.0000420	.0002333	.0009784	.0025624	.0062009
10			.0000005	.0000060	.0000408	.0001850	.0006326	.0017564
11				.0000007	.0000063	.0000346	.0001387	.0004424
12				.0000001	.0000009	.0000058	.0000272	.0000990
13					.0000001	.0000009	.0000040	.0000202
14						.0000001	.0000008	.0000037
15							.0000001	.0000006
16								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9826707	.9892247	.9933355	.9959003	.9974920	.9984744	.9990774	.9994454
2	.9089730	.9377429	.9579160	.9718610	.9813774	.9877954	.9920765	.9949026
3	.7559109	.8176107	.8659847	.9030211	.9308100	.9512001	.9661319	.9767316
4	.5490230	.6382070	.7107000	.7747207	.8275464	.8700663	.9035598	.9294294
5	.3444101	.4325291	.5107751	.5997845	.6738433	.7370440	.7931383	.8393890
6	.1865652	.2568741	.3337509	.4137075	.4934004	.5699542	.6411464	.7054677
7	.0876954	.1332651	.1889192	.2530046	.3230442	.3960577	.4713731	.5439833
8	.0360099	.0606694	.0943020	.1371733	.1887800	.2479143	.3128199	.3814003
9	.0130070	.0243715	.0416770	.0660950	.0983913	.1388045	.1862094	.2420434
10	.0041597	.0086872	.0163841	.0304020	.0458656	.0697299	.1006351	.1388161
11	.0011847	.0027620	.0057550	.0109261	.0191816	.0314978	.0488025	.0719641
12	.0003020	.0007870	.0018139	.0037769	.0072194	.0128264	.0213923	.0337630
13	.0000672	.0002018	.0005149	.0011772	.0024528	.0047210	.0084840	.0145592
14	.0000143	.0000467	.0001321	.0003319	.0007544	.0015745	.0030520	.0055458
15	.0000027	.0000098	.0000307	.0000868	.0002105	.0004769	.0009979	.0019485
16	.0000005	.0000019	.0000065	.0000197	.0000534	.0001314	.0003971	.0006738
17	.0000001	.0000003	.0000012	.0000052	.0000124	.0000330	.0000807	.0001822
18		.0000001	.0000002	.0000008	.0000026	.0000076	.0000200	.0000466
19				.0000001	.0000005	.0000016	.0000045	.0000119
20					.0000001	.0000003	.0000009	.0000026
21						.0000001	.0000002	.0000005
22								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9996686	.9998032	.9998839	.9999319	.9999604	.9999771	.9999868	.9999925
2	.9967498	.9979457	.9987128	.9992003	.9995075	.9996992	.9998179	.9998907
3	.9841957	.9893032	.9929441	.9953594	.9969701	.9980533	.9987580	.9992154
4	.9490541	.9636957	.9744509	.9823362	.9877930	.9912987	.9943112	.9963012
5	.8770775	.9073085	.9310718	.9494282	.9633775	.9738137	.9815071	.9870903
6	.7620803	.8107626	.8517041	.8854526	.9187516	.9344448	.9513957	.9644300
7	.6129256	.6765403	.7337957	.7841579	.8375210	.8641192	.8944316	.9190936
8	.4514396	.5208049	.5876060	.6503041	.7077667	.7592748	.8044939	.8434191
9	.3026002	.3669688	.4332946	.4997187	.5645162	.6262030	.6836035	.7358818
10	.1840466	.2356452	.2925305	.3533162	.4164303	.4802410	.5431754	.6038185
11	.1014877	.1376330	.1802667	.2288740	.2826906	.3402672	.4005587	.4630241
12	.0507587	.0730884	.1012663	.1355424	.1758577	.2218279	.2727594	.3276926
13	.0230513	.0353062	.0518504	.0733213	.1001989	.1327453	.1709625	.2145714
14	.0095186	.0155290	.0242004	.0362880	.0538399	.0728298	.0984538	.1293870
15	.0035791	.0062262	.0103158	.0163566	.0269215	.0366171	.0520429	.0717434
16	.0012271	.0022781	.0040150	.0067521	.0100819	.0168704	.0252411	.0365504
17	.0003841	.0007615	.0014286	.0025501	.0043509	.0071236	.0112311	.0171017
18	.0001099	.0002327	.0004651	.0008816	.0015935	.0027574	.0045846	.0073473
19	.0000287	.0000651	.0001366	.0002792	.0005348	.0009786	.0017169	.0028970
20	.0000069	.0000167	.0000378	.0000810	.0001645	.0003184	.0005898	.0010491
21	.0000015	.0000039	.0000094	.0000215	.0000464	.0000950	.0001859	.0003485
22	.0000003	.0000008	.0000022	.0000052	.0000120	.0000260	.0000537	.0001063
23	.0000001	.0000002	.0000005	.0000012	.0000028	.0000065	.0000142	.0000296
24			.0000001	.0000002	.0000006	.0000015	.0000034	.0000076
25					.0000001	.0000003	.0000008	.0000018
26						.0000001	.0000002	.0000004
27								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999958	.9999976	.9999987	.9999993	.9999996	.9999998	.9999999	.9999999
2	.9999349	.9999616	.9999776	.9999870	.9999925	.9999958	.9999976	.9999987
3	.9995093	.9996961	.9998136	.9998869	.9999320	.9999595	.9999762	.9999861
4	.9975701	.9984210	.9989850	.9993546	.9995940	.9997474	.9998445	.9999054
5	.9911061	.9939410	.9959203	.9972847	.9983155	.9988382	.9992531	.9995253
6	.9742998	.9816633	.9870786	.9910060	.9938156	.9957989	.9971805	.9981305
7	.9388197	.9543426	.9663674	.9755418	.9824387	.9875493	.9912830	.9939732
8	.8763073	.9036043	.9258772	.9437542	.9578765	.9688614	.9778781	.9836325
9	.7825386	.8233028	.8584859	.8881860	.9127305	.9328206	.9488639	.9617344
10	.6609866	.7137709	.7615532	.8039969	.8410196	.8727525	.8994937	.9216596
11	.5232277	.5828292	.6396571	.6927596	.7414334	.7852240	.8239262	.8575398
12	.3854688	.4448095	.5044024	.5639827	.6194031	.6726891	.7220744	.7670178
13	.2630164	.3154937	.3710006	.4283992	.4864084	.5440768	.6000491	.6534216
14	.1656825	.2071481	.2533427	.3035932	.3570299	.4126380	.4693173	.5259471
15	.0961582	.1255751	.1600914	.1995881	.2437211	.2919283	.3434576	.3974013
16	.0513537	.0701643	.0934103	.1213918	.1542444	.1919127	.2341359	.2804499
17	.0252177	.0360942	.0500503	.0681748	.0902875	.1169005	.1401838	.1841370
18	.0113811	.0170820	.0248968	.0353055	.0487976	.0658419	.0868522	.1121522

$$P(c;n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 43

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
19	.0047189	.0074332	.0113518	.0169410	.0243193	.0342341	.0470508	.0633214
20	.0017970	.0029725	.0047599	.0073941	.0111637	.0164102	.0235388	.0329237
21	.0006282	.0010918	.0018348	.0029851	.0047156	.0072436	.0108372	.0158144
22	.0002015	.0003681	.0006491	.0011072	.0018311	.0029409	.0045954	.0069962
23	.0000593	.0001138	.0002102	.0003770	.0006539	.0010969	.0017911	.0028464
24	.0000160	.0000322	.0000627	.0001176	.0002135	.0003754	.0006407	.0010634
25	.0000039	.0000084	.0000171	.0000336	.0000639	.0001177	.0002100	.0003642
26	.0000008	.0000020	.0000042	.0000088	.0000175	.0000337	.0000630	.0001141
27	.0000002	.0000004	.0000010	.0000021	.0000044	.0000088	.0000172	.0000328
28		.0000001	.0000002	.0000005	.0000010	.0000021	.0000043	.0000085
29				.0000001	.0000002	.0000005	.0000010	.0000020
30						.0000001	.0000002	.0000004
31								.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999993	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000
3	.9999920	.9999954	.9999974	.9999986	.9999992	.9999996	.9999998	.9999999
4	.9999430	.9999661	.9999800	.9999884	.9999933	.9999962	.9999979	.9999988
5	.9997019	.9998149	.9998864	.9999318	.9999588	.9999756	.9999858	.9999918
6	.9987753	.9992075	.9994934	.9996801	.9998005	.9998772	.9999253	.9999552
7	.9958851	.9972256	.9981528	.9987852	.9992118	.9994958	.9996806	.9998006
8	.9883607	.9918290	.9943374	.9961263	.9973843	.9982568	.9988536	.9992561
9	.9716835	.9793109	.9850925	.9893948	.9925546	.9948420	.9964743	.9976224
10	.9397396	.9542565	.9657333	.9746696	.9815236	.9867027	.9905584	.9933869
11	.8862455	.9101593	.9302913	.9465077	.9594967	.9697413	.9776988	.9837865
12	.8072020	.8425101	.8730387	.8989045	.9206074	.9385544	.9530336	.9645857
13	.7033837	.7493222	.7908298	.8276996	.8599067	.8875022	.9109815	.9304510
14	.5811478	.6348367	.6852717	.7320820	.7747841	.8130843	.8468698	.8731855
15	.4527521	.5084567	.5634739	.6168206	.6676569	.7152415	.7590339	.7986637
16	.3302031	.3825873	.4365793	.4914905	.5460194	.5993031	.6504636	.6987460
17	.2245712	.2691141	.3171997	.3681100	.4211007	.4749498	.5280096	.5801757
18	.1419426	.1762724	.2150204	.2578056	.3043912	.3538099	.4056411	.4597403
19	.0831556	.1071802	.1355476	.1683276	.2054665	.2467339	.2917295	.3398923
20	.0450572	.0603608	.0798409	.1020429	.1290210	.1603098	.1959029	.2358327
21	.0225394	.0314129	.0438591	.0573008	.0751450	.0967462	.1223819	.1522850
22	.0103922	.0150801	.0214016	.0279364	.0364901	.0469775	.0599007	.0758241
23	.0044093	.0066663	.0094041	.0124314	.0161373	.0207258	.0263864	.0332935
24	.0017187	.0027088	.0041680	.0062603	.0092234	.0132011	.0187727	.0260101
25	.0006144	.0010098	.0016192	.0025356	.0038830	.0058163	.0085359	.0123805
26	.0002010	.0003447	.0005761	.0009398	.0014978	.0023346	.0035619	.0053241
27	.0000601	.0001075	.0001873	.0003184	.0005285	.0008577	.0013603	.0021135
28	.0000163	.0000305	.0000555	.0000963	.0001700	.0002871	.0004740	.0007658
29	.0000040	.0000079	.0000149	.0000276	.0000477	.0000814	.0001502	.0002524
30	.0000009	.0000018	.0000036	.0000070	.0000132	.0000241	.0000431	.0000754
31	.0000002	.0000004	.0000008	.0000016	.0000031	.0000060	.0000118	.0000203
32		.0000001	.0000002	.0000003	.0000007	.0000013	.0000026	.0000049
33				.0000001	.0000001	.0000003	.0000005	.0000011
34							.0000001	.0000002

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999994	.9999997	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000
5	.9999953	.9999974	.9999985	.9999992	.9999996	.9999998	.9999999	.9999999
6	.9999735	.9999845	.9999911	.9999949	.9999972	.9999984	.9999991	.9999995
7	.9998772	.9999254	.9999553	.9999736	.9999846	.9999912	.9999950	.9999972
8	.9995238	.9996993	.9998128	.9998851	.9999305	.9999585	.9999757	.9999859
9	.9984185	.9989625	.9993389	.9995720	.9997310	.9998335	.9998984	.9999390
10	.9954314	.9968875	.9979092	.9986155	.9990965	.9994190	.9996321	.9997705
11	.9883739	.9917787	.9942679	.9960603	.9973313	.9982188	.9988289	.9992418
12	.9736607	.9806804	.9860272	.9900373	.9929986	.9951515	.9966923	.9977777
13	.9463956	.9592492	.9694493	.9774176	.9835453	.9881838	.9916397	.9941737
14	.9013145	.9222419	.9396269	.9537730	.9651015	.9740301	.9809552	.9862406
15	.8339352	.8648169	.8914178	.9139632	.9327651	.9481939	.9606518	.9705487
16	.7435452	.7844218	.8211059	.8534202	.8816146	.9056440	.9250422	.9425449
17	.6336217	.6825418	.7282818	.7703399	.8083765	.8422130	.8710310	.8973078
18	.5123005	.5653696	.6170654	.6665767	.7133061	.7563947	.7957374	.8309874
19	.3905282	.4428100	.4958763	.5488138	.6007321	.6507993	.6982793	.7425602
20	.2791728	.3260337	.3755824	.4270663	.4796475	.5324419	.5845620	.6351588
21	.1863187	.2245592	.2666847	.3122759	.3607645	.4114544	.4635496	.5161910
22	.1156477	.1440793	.1767100	.2134936	.2542330	.2995753	.3460164	.3959159
23	.0665373	.0858008	.1080343	.1358790	.1670700	.2024191	.2417089	.2848927
24	.0359774	.0472680	.0620024	.0801989	.1019576	.1276309	.1573980	.1913214
25	.0179328	.0240168	.0326916	.0437417	.0575682	.0745405	.0950337	.1193434
26	.0078028	.0112201	.0150409	.0219716	.0299564	.0401694	.0530024	.0688481
27	.0032180	.0048048	.0070403	.0101396	.0143195	.0188093	.0271901	.0365780
28	.0012119	.0018799	.0028602	.0042712	.0063641	.0090274	.0127902	.0178841
29	.0004153	.0006695	.0010582	.0016409	.0024980	.0037352	.0054891	.0079315
30	.0001290	.0002162	.0003551	.0005720	.0009042	.0014035	.0021403	.0032083
31	.0000361	.0000630	.0001076	.0001800	.0002956	.0004765	.0007544	.0011736
32	.0000091	.0000165	.0000292	.0000509	.0000868	.0001454	.0002390	.0003860
33	.0000020	.0000038	.0000071	.0000128	.0000238	.0000396	.0000676	.0001134
34	.0000004	.0000008	.0000015	.0000029	.0000053	.0000095	.0000169	.0000295
35	.0000001	.0000001	.0000003	.0000006	.0000011	.0000020	.0000037	.0000067
36				.0000001	.0000002	.0000004	.0000007	.0000013
37						.0000001	.0000001	.0000002

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 43$$

x	.49	.50
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	.9999998	.9999999
7	.9999985	.9999992
8	.9999920	.9999955
9	.9999639	.9999790
10	.9998591	.9999149
11	.9995468	.9996969
12	.9985300	.9990430
13	.9960018	.9972992
14	.9902094	.9931409
15	.9788838	.9842303
16	.9561318	.9670030
17	.9188861	.9368553
18	.8620509	.8889736
19	.7831751	.8198112
20	.6834611	.7288080
21	.5684967	.6196042
22	.4475213	.5000000
23	.3312697	.3803958
24	.2293271	.2711920
25	.1476904	.1801888
26	.0880705	.1110264
27	.0484289	.0631447
28	.0244427	.0329970
29	.0113738	.0157697
30	.0047294	.0068591
31	.0017952	.0027008
32	.0006129	.0009570
33	.0001870	.0003031
34	.0000505	.0000851
35	.0000120	.0000210
36	.0000025	.0000045
37	.0000004	.0000008
38	.0000001	.0000001

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 44$$

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.3573884	.5888001	.7382080	.8340664	.8953260	.9342909	.9586560	.9744927
2	.0717833	.2197428	.3819551	.5289549	.6520233	.7497462	.8230053	.8760996
3	.0097579	.0577749	.1450653	.2573320	.3786052	.4964880	.6030515	.6944429
4	.0009866	.0114965	.0424843	.0903604	.1765110	.2701728	.3712511	.4723016
5	.0000785	.0018158	.0099783	.0304663	.0674756	.1221038	.1984150	.2743440
6	.0000051	.0000353	.0019331	.0078149	.0215660	.0464945	.0847301	.1366205
7	.0000003	.0000056	.0003158	.0017055	.0058601	.0151246	.0380451	.0587767
8		.0000004	.0000463	.0003191	.0013727	.0042548	.0105179	.0229306
9		.0000002	.0000054	.0000580	.0002804	.0010459	.0030839	.0008583
10			.0000006	.0000074	.0000594	.0002264	.0007676	.0001130
11			.0000001	.0000009	.0000080	.0000436	.0001732	.0005475
12				.0000001	.0000011	.0000075	.0000350	.0001871
13					.0000001	.0000012	.0000063	.0000845
14						.0000009	.0000010	.0000350
15							.0000002	.0000009
16								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9848304	.9903033	.9940686	.9963922	.9978100	.9986880	.9992150	.9995341
2	.9156065	.9488911	.9618122	.9747457	.9834723	.9892905	.9931366	.9956205
3	.7696866	.8296311	.8760972	.9112819	.9373844	.9563991	.9700336	.9796300
4	.5676436	.6534409	.7277814	.7901830	.8409700	.8814273	.9130456	.9369977
5	.3683253	.4529969	.5390869	.6207770	.6933027	.7563550	.8097015	.8537458
6	.2007713	.2744196	.3541036	.4360367	.5167800	.5934509	.6639452	.7268857
7	.0965037	.1456260	.2048507	.2722890	.3453297	.4210918	.4967541	.5690808
8	.0406616	.0679809	.1047099	.1510731	.2068552	.2687661	.3365876	.4074135
9	.0150773	.0280013	.0474665	.0746344	.1101418	.1540799	.2050639	.2643405
10	.0049560	.0102556	.0191664	.0329250	.0526948	.0794003	.1135088	.1553325
11	.0014585	.0033545	.0069840	.0130833	.0226506	.0368503	.0565944	.0886604
12	.0003815	.0009845	.0022474	.0046348	.0087745	.0154404	.0255069	.0390758
13	.0000908	.0002603	.0006578	.0014898	.0030725	.0056557	.0104203	.0174638
14	.0000193	.0000632	.0001748	.0004333	.0009752	.0020150	.0038668	.0069560
15	.0000037	.0000135	.0000419	.0001145	.0002812	.0006305	.0013060	.0025841
16	.0000007	.0000027	.0000093	.0000275	.0000739	.0001790	.0004022	.0008357
17	.0000001	.0000005	.0000018	.0000060	.0000177	.0000468	.0001131	.0002520
18		.0000001	.0000003	.0000012	.0000039	.0000111	.0000291	.0000700
19			.0000001	.0000002	.0000008	.0000024	.0000068	.0000177
20					.0000001	.0000005	.0000015	.0000041
21						.0000001	.0000003	.0000009
22							.0000001	.0000002

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9997249	.9998186	.9999060	.9999456	.9999607	.9999681	.9999809	.9999943
2	.9978460	.9988801	.9989353	.9993467	.9996026	.9997603	.9998567	.9999151
3	.9863299	.9909245	.9940401	.9961876	.9975101	.9984154	.9990010	.9993775
4	.9550208	.9683195	.9779646	.9849608	.9897287	.9931045	.9954264	.9970006
5	.8893135	.9174502	.9393138	.9559098	.9685046	.9777506	.9844797	.9893070
6	.7816365	.8281409	.8667840	.8992477	.9233830	.9431060	.9583213	.9698704
7	.6338833	.7007003	.7561983	.8044168	.8454196	.8799900	.9075333	.9299743
8	.4788022	.5488373	.6153880	.6770749	.7329151	.7833405	.8251795	.8615810
9	.3379020	.3944503	.4462618	.5289358	.5945988	.6554787	.7114083	.7616908
10	.2242007	.2692035	.3192756	.3825967	.4475883	.5183526	.5754738	.6255137
11	.1356227	.1653753	.2015968	.2537624	.3106969	.3710615	.4333605	.4960548
12	.0763896	.0947064	.1168764	.1545007	.1982716	.2478846	.3021533	.3599322
13	.0397615	.0521070	.0673394	.0857656	.1160872	.1523435	.1943758	.2417305
14	.0191191	.0270889	.0394612	.0543167	.0723113	.0960113	.1251708	.1598312
15	.0085888	.0129557	.0203509	.0306584	.0445039	.0627174	.0867174	.1155778
16	.0036270	.0058888	.0092133	.0146710	.0138303	.0318147	.0314055	.0449968
17	.0015274	.0010345	.0019200	.0033905	.0057534	.0092679	.0144594	.0217694
18	.0001565	.0003279	.0006481	.0012153	.0021726	.0037180	.0061133	.0096803
19	.0000435	.0000953	.0002006	.0003997	.0007571	.0013699	.0023765	.0039657
20	.0000106	.0000254	.0000570	.0001206	.0002433	.0004637	.0008491	.0014920
21	.0000024	.0000062	.0000148	.0000334	.0000712	.0001442	.0002788	.0005166
22	.0000005	.0000014	.0000035	.0000085	.0000192	.0000413	.0000841	.0001643
23	.0000001	.0000003	.0000008	.0000020	.0000048	.0000108	.0000233	.0000466
24		.0000001	.0000002	.0000004	.0000011	.0000026	.0000059	.0000
25				.0000001	.0000002	.0000006	.0000014	.0000
26						.0000001	.0000003	.0000
27							.0000001	.0000

r \ p	.25	.26	.27	.28	.29	.30	.31	.
1	.9999968	.9999982	.9999990	.9999995	.9999997	.9999998	.9999999	1.0000000
2	.9999501	.9999710	.9999833	.9999904	.9999946	.9999970	.9999983	.9999991
3	.9996157	.9997651	.9998579	.9999149	.9999496	.9999704	.9999828	.9999901
4	.9980549	.9987525	.9992087	.9995036	.9996920	.9998116	.9998853	.9999313
5	.9927281	.9951058	.9967477	.9978643	.9986139	.9991110	.9994364	.9996469
6	.9785014	.9848555	.9894659	.9927640	.9950910	.9967107	.9978230	.9985768
7	.9476897	.9614460	.9719594	.9798718	.9857380	.9900248	.9931112	.9953035
8	.8919354	.9167962	.9368095	.9526547	.9649995	.9744678	.9816196	.9869415
9	.8059808	.8442404	.8766815	.9037019	.9258238	.9436328	.9577413	.9687418
10	.6913746	.7422700	.7877250	.8275531	.8618157	.8907729	.9148294	.9344835
11	.5576674	.6168740	.6725690	.7239060	.7703127	.8114831	.8473521	.8780588
12	.4199085	.4806946	.5409312	.5993302	.6547916	.7064498	.7536485	.7959809
13	.2916295	.3491158	.4070191	.4660826	.5250337	.5826605	.6370769	.6897724
14	.1900159	.2351140	.2851104	.3345388	.3945729	.4520696	.5098442	.5667389
15	.1115393	.1467841	.1852693	.2287095	.2765807	.3281416	.3834741	.4385360
16	.0635548	.0845711	.1114142	.1432867	.1801927	.2219175	.2680256	.3178744
17	.0317517	.0449524	.0619035	.0830755	.1088350	.1394042	.1748289	.2149571
18	.0140403	.0220252	.0317422	.0445089	.0608297	.0811595	.1050650	.1351874
19	.0063845	.0090419	.0150089	.0220117	.0314100	.0437165	.0593892	.0788793
20	.0025275	.0041323	.0065397	.0100305	.0149788	.0217574	.0308161	.0426190

$$P(c,n,p) = \sum_{k=0}^{c} \binom{n}{k} p^k (1-p)^{n-k}$$

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
21	.0009804	.0015808	.0026042	.0042196	.0065856	.0099936	.0147695	.0212894
22	.0003083	.0005163	.0009041	.0014911	.0023677	.0036317	.0054103	.0079106
23	.0000948	.0001799	.0003291	.0005614	.0009045	.0014501	.0022604	.0034743
24	.0000268	.0000534	.0001027	.0001903	.0003409	.0005818	.0009371	.0014740
25	.0000069	.0000146	.0000294	.0000571	.0001073	.0001956	.0003435	.0005871
26	.0000016	.0000036	.0000077	.0000157	.0000310	.0000609	.0001086	.0001941
27	.0000004	.0000008	.0000019	.0000040	.0000082	.0000163	.0000314	.0000587
28	.0000001	.0000002	.0000004	.0000009	.0000020	.0000041	.0000083	.0000165
29			.0000001	.0000002	.0000004	.0000009	.0000020	.0000043
30					.0000001	.0000002	.0000004	.0000010
31							.0000001	.0000002

n \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999955	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999644	.9999968	.9999992	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9998598	.9999761	.9999961	.9999990	.9999999	1.0000000	1.0000000	1.0000000
5	.9997814	.9998663	.9999792	.9999970	.9999996	.9999999	1.0000000	1.0000000
6	.9990811	.9994140	.9996309	.9997705	.9998591	.9999249	.9999609	.9999808
7	.9986389	.9987894	.9990220	.9991076	.9994096	.9996409	.9997760	.9998625
8	.9980430	.9976639	.9956720	.9970037	.9980605	.9987223	.9991761	.9994339
9	.9971870	.9955783	.9883382	.9941181	.9943416	.9961396	.9974088	.9982754
10	.9950811	.9927777	.9735000	.9799707	.9856051	.9909856	.9938686	.9958011
11	.9913086	.9858043	.9486960	.9566460	.9676467	.9761066	.9837141	.9896867
12	.9338864	.9655841	.9030771	.9160988	.9350469	.9504054	.9626530	.9728671
13	.7376437	.7810088	.8196029	.8533622	.8833956	.9069516	.9273010	.9441349
14	.6816864	.6737618	.7222171	.7665043	.8068794	.8413935	.8719730	.8987019
15	.4952917	.5514359	.6061032	.6503198	.7072040	.7524210	.7932896	.8299723
16	.3706443	.4853889	.4810574	.5366122	.5910251	.6433597	.6920060	.7367136
17	.2594311	.3076950	.3590176	.4185875	.4678591	.5229240	.5763445	.6288030
18	.1693107	.2078306	.2550838	.2975667	.3475178	.3990009	.4537471	.5081193
19	.1035553	.1306768	.1633630	.2003685	.2430607	.2874570	.3361551	.3874347
20	.0576897	.0768881	.0989482	.1259054	.1571058	.1931509	.2339747	.2792177
21	.0299703	.0413552	.0555981	.0734080	.0950781	.1209003	.1510548	.1855681
22	.0144008	.0200333	.0269114	.0356596	.0531185	.0702916	.0909784	.1156045
23	.0063037	.0089270	.0119918	.0159132	.0276678	.0378634	.0500830	.0666298
24	.0026066	.0040543	.0051560	.0091350	.0119615	.0180582	.0262661	.0355055
25	.0009788	.0015875	.0020113	.0033794	.0050503	.0076567	.0112209	.0157203
26	.0003374	.0005708	.0009412	.0015143	.0023800	.0036576	.0055018	.0081362
27	.0001066	.0001881	.0003334	.0005401	.0008471	.0014186	.0022189	.0033977
28	.0000308	.0000567	.0001016	.0001776	.0003022	.0005037	.0008106	.0013048
29	.0000081	.0000156	.0000301	.0000531	.0000942	.0001633	.0002765	.0004570
30	.0000019	.0000039	.0000076	.0000144	.0000267	.0000481	.0000849	.0001462
31	.0000004	.0000009	.0000018	.0000035	.0000068	.0000130	.0000236	.0000423
32	.0000001	.0000002	.0000004	.0000008	.0000016	.0000031	.0000059	.0000111
33			.0000001	.0000002	.0000003	.0000007	.0000013	.0000028
34					.0000001	.0000001	.0000003	.0000006
35								.0000001

n \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999970	.9999993	.9999998	.9999999	.9999997	.9999999	1.0000000	1.0000000
6	.9999824	.9999949	.9999993	.9999998	.9999998	.9999999	.9999999	.9999999
7	.9999167	.9999802	.9999707	.9999930	.9999993	.9999995	.9999999	.9999999
8	.9996687	.9997943	.9998741	.9999240	.9999548	.9999736	.9999848	.9999914
9	.9988716	.9992710	.9995369	.9997098	.9998200	.9998910	.9999347	.9999611
10	.9966561	.9977590	.9985197	.9990364	.9993830	.9996097	.9997572	.9998514
11	.9913675	.9939244	.9958337	.9971846	.9981886	.9987709	.9992064	.9994956
12	.9796931	.9853417	.9895707	.9926874	.9949403	.9965638	.9976965	.9984835
13	.9575743	.9682503	.9765770	.9829702	.9877993	.9913890	.9940145	.9959536
14	.9197388	.9377850	.9534505	.9641766	.9734010	.9805408	.9859770	.9900185
15	.8615197	.8889354	.9121477	.9314795	.9473165	.9600706	.9701944	.9780008
16	.7804051	.8101677	.8513400	.8800981	.9046321	.9252169	.9423027	.9559867
17	.6786904	.7353314	.7881962	.8269261	.8413337	.8713913	.8972114	.9189216
18	.5620420	.6145819	.6648884	.7133326	.7560330	.7958711	.8314970	.8629818
19	.4404519	.4948850	.5479076	.6000895	.6513454	.6993732	.7443046	.7858053
20	.3244261	.3750798	.4273087	.4806352	.5341356	.5868063	.6380091	.6867115
21	.2241889	.2721785	.3135107	.3627037	.4143610	.4671086	.5204854	.5732955
22	.1446208	.1778808	.2153991	.2569578	.3021732	.3504997	.4012570	.4536486
23	.0866726	.1103778	.1380209	.1700294	.2062938	.2466510	.2907759	.3381819
24	.0481530	.0634523	.0821858	.1046981	.1319586	.1620335	.1970618	.2368356
25	.0247311	.0337826	.0453297	.0597829	.0775402	.0989631	.1243449	.1539029
26	.0117101	.0165947	.0230667	.0315504	.0423790	.0559801	.0727571	.0930058
27	.0050977	.0074993	.0108346	.0153400	.0213561	.0292236	.0393261	.0520681
28	.0020344	.0031084	.0046576	.0068489	.0098890	.0140285	.0195619	.0268764
29	.0007410	.0011779	.0018331	.0027983	.0041938	.0061696	.0089306	.0125800
30	.0002464	.0004066	.0006574	.0010433	.0016214	.0024761	.0037142	.0054754
31	.0000743	.0001373	.0002140	.0003525	.0005695	.0009029	.0014057	.0021503
32	.0000203	.0000360	.0000629	.0001077	.0001808	.0002977	.0004813	.0007641
33	.0000049	.0000091	.0000166	.0000296	.0000516	.0000882	.0001482	.0002443
34	.0000011	.0000021	.0000039	.0000078	.0000131	.0000234	.0000407	.0000698
35	.0000002	.0000004	.0000008	.0000016	.0000030	.0000055	.0000099	.0000177
36		.0000001	.0000001	.0000003	.0000006	.0000011	.0000021	.0000039
37					.0000001	.0000002	.0000004	.0000008
38							.0000001	.0000001

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

D.9.44

X	.40	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	.99999999	.99999999
7	.99993301	.99999995
8	.99990954	.99999974
9	.99949757	.99999873
10	.99831054	.99994470
11	.99568445	.99980059
12	.99901137	.99931700
13	.99784486	.99811711
14	.99510476	.99509201
15	.98412873	.98866856
16	.96690843	.97564166
17	.94171165	.95109891
18	.90990001	.91209144
19	.86818843	.86419824
20	.81323810	.77431096
21	.68488893	.67420061
22	.50679999	.55988081
23	.38832431	.44019979
24	.27998808	.33857939
25	.18726024	.22556904
26	.11779888	.14560076
27	.06780577	.08700856
28	.03619558	.04800709
29	.01779866	.02438834
30	.00793662	.01111144
31	.00309330	.00477799
32	.00110033	.00182809
33	.00031957	.00063300
34	.00011174	.00021941
35	.00003309	.00006510
36	.00000971	.00001827
37	.00000214	.00000486
38	.00000003	.00000005
39		.00000001

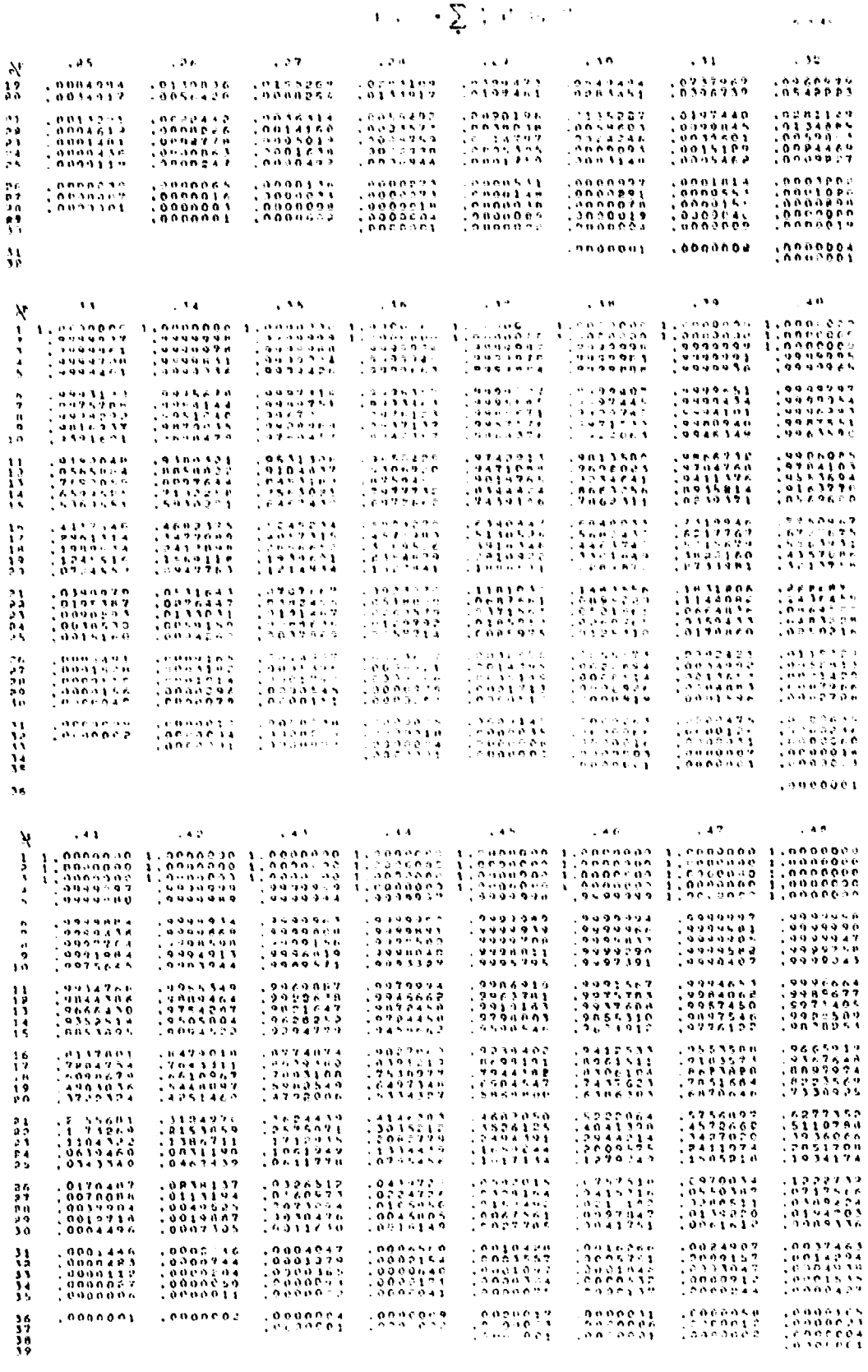
$\sum_{n=0}^{\infty}$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.36510145	.59711201	.74660610	.84070314	.27055507	.93121314	.96108091	.97655315
2	.07466393	.38711751	.37264406	.54200814	.09504411	.76991109	.83854405	.88447070
3	.01047101	.06190144	.15871719	.26082317	.03031401	.53116015	.61844496	.70903944
4	.00107461	.01242480	.04557114	.10471137	.00666167	.28137511	.38747721	.49003119
5	.00008776	.00080084	.01095108	.03111400	.00299274	.11009470	.20449141	.29013899
6	.00000650	.00002668	.00021745	.00074001	.00030519	.00910310	.02806001	.05473084
7	.00000051	.00000298	.00003643	.00019007	.00006454	.00190068	.00657110	.01650048
8		.00000028	.00000524	.00003746	.00001971	.00040270	.00120848	.00349705
9		.00000002	.00000065	.00000627	.00000550	.00012305	.00035405	.00094345
10			.00000007	.00000068	.00000119	.00002758	.00009856	.00025838
11			.00000001	.00000012	.00000168	.00000544	.00003148	.00006707
12				.00000001	.00000015	.00000097	.00001446	.00001607
13					.00000002	.00000015	.00000083	.00000345
14						.00000002	.00000014	.00000067
15							.00000002	.00000012
16								.00000002

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.98564406	.99137225	.99472110	.99682552	.99810117	.99907217	.99973154	.99990086
2	.92170897	.94763199	.96553644	.97753451	.98511592	.99206061	.99640400	.99895549
3	.78031964	.84009571	.88585658	.91868951	.94117740	.96610032	.97934891	.98811775
4	.58568274	.68210671	.76402.21	.80466.69	.85134.5	.91015380	.95118073	.97438803
5	.38189589	.47886481	.58805553	.64109991	.71824995	.79130692	.88518881	.86706611
6	.21515611	.29988754	.37451107	.45580047	.53972270	.61628645	.69580806	.74718333
7	.10504096	.15855074	.23128485	.31910387	.41676103	.44650287	.58181328	.65495110
8	.04569955	.07556936	.11572564	.16.6190	.23431148	.29609110	.36061220	.43139887
9	.01713928	.03110446	.05377431	.08379007	.13228366	.17013600	.22547285	.28703198
10	.00560669	.01201102	.02222704	.03720291	.06016290	.08898554	.13748096	.17877337
11	.00176278	.00440466	.00883708	.01541115	.02655464	.04206071	.06514155	.09498670
12	.00047770	.00138215	.00327612	.00564414	.01035704	.01584370	.02501700	.04672008
13	.00011664	.00035127	.00108327	.00188667	.00341132	.00571994	.01006833	.01804496
14	.00002856	.00008800	.00032524	.00059605	.00102470	.00175587	.00040498	.00306579
15	.00000651	.00001984	.00008744	.00017587	.00029715	.00050844	.00016901	.00098358
16	.00000140	.00000417	.00001988	.00004300	.00001008	.00013480	.00005170	.00011059
17	.00000028	.00000087	.00000426	.00000886	.00000250	.00003654	.00001565	.00003461
18		.00000017	.00000085	.00000178	.00000059	.00000917	.00000417	.00000998
19			.00000017	.00000033	.00000012	.00000216	.00000100	.00000261
20				.00000006	.00000002	.00000048	.00000023	.00000063
21						.00000010	.00000005	.00000014
22							.00000001	.00000003
23								.00000001

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.99997717	.99998677	.99999238	.99995564	.99997653	.99990861	.99999822	.99999947
2	.99976674	.99985606	.99991107	.99994664	.99996705	.99990091	.99998874	.99999341
3	.99810424	.99903405	.99949705	.99967714	.99975405	.99967115	.99991984	.99995065
4	.98634958	.99318064	.99810189	.99871142	.99913581	.99849789	.99964467	.99979710
5	.98004850	.99066112	.99466574	.99617640	.99789605	.99811805	.99869974	.99911514
6	.97994416	.98463188	.99053488	.99097961	.99388886	.99507078	.99643177	.99745350
7	.96636533	.97836396	.98772090	.99231036	.99617918	.99316445	.99192146	.99395494
8	.95098887	.95761706	.96421371	.97885433	.98735410	.98817356	.98441809	.98799754
9	.93555711	.94225113	.95075397	.95908836	.96836452	.96733881	.97375757	.97856644
10	.92053101	.92836511	.93465099	.94200445	.94984151	.95430464	.96071380	.96579688
11	.13059000	.17199667	.22399550	.27952933	.33543115	.40031451	.46610466	.53095349
12	.06899264	.09740888	.13244878	.17411195	.22180009	.27490035	.33233091	.39266016
13	.03111371	.04977449	.07169.4	.09945452	.13333460	.17331605	.21401646	.25600915
14	.01452993	.02319188	.03549.6	.05207005	.07360433	.10060431	.13355728	.17188847
15	.00648179	.00991146	.01600.6	.02499540	.03730555	.05369479	.07477035	.10099887
16	.00281705	.00438739	.00668074	.01100655	.01736442	.02653569	.03726078	.05047368
17	.00071141	.00178663	.00284455	.00444270	.00742850	.01083524	.01535244	.02073440
18	.00021194	.00064551	.00088891	.00176564	.00299180	.00449390	.00630115	.00838778
19	.00006619	.00021371	.00032056	.00070620	.00120544	.00180685	.00259359	.00353391
20	.00001960	.00006780	.00010873	.00027764	.00049504	.00072610	.00104004	.00143863
21	.00000538	.00002094	.00003538	.00010505	.00001071	.00003144	.00004099	.00007505
22	.00000138	.00000631	.00001057	.00003131	.00000301	.00000878	.00001084	.00002489
23	.00000032	.00000185	.00000313	.00000933	.00000078	.00000255	.00000375	.00000759
24		.00000051	.00000091	.00000267	.00000018	.00000074	.00000099	.00000213
25		.00000013	.00000026	.00000077	.00000004	.00000020	.00000024	.00000055
26					.00000001	.00000005	.00000005	.00000013
27							.00000001	.00000003
28								.00000001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	.99997076	.99999047	.99999693	.99999896	.99999968	.99999989	.99999996	1.00000000
2	.99979618	.99997781	.99999875	.99999959	.99999986	.99999995	.99999998	.99999994
3	.99966931	.99993187	.99998917	.99999740	.99999916	.99999974	.99999988	.99999930
4	.99884451	.99960188	.99993640	.99998100	.99999667	.99999508	.99999856	.99999801
5	.99405539	.99860539	.99974103	.99993313	.99997956	.99999310	.99999786	.99997399
6	.98205651	.99475206	.99914320	.99941981	.99981137	.99974308	.99993232	.99999193
7	.95539086	.98679325	.99766862	.99834816	.99945504	.99920301	.99957719	.99985510
8	.90584740	.96284058	.99463000	.99603755	.99710151	.99791347	.99861820	.99896174
9	.83274694	.92631047	.98929161	.99174087	.99371841	.99528835	.99651436	.99745657
10	.72800261	.87687823	.98117433	.98488747	.99063778	.99066393	.99261391	.99454460
11	.59109043	.80494770	.97036512	.97529273	.98668486	.98582700	.98882701	.99061143
12	.45434482	.71161013	.95764661	.96342048	.98088937	.97979598	.98369846	.98582483
13	.33151933	.60113263	.94411727	.95033091	.97620635	.97497973	.97937661	.98237604
14	.23189101	.48490854	.93102257	.93742511	.97245065	.97112469	.97495341	.97681096
15	.15306584	.37498039	.91922864	.92594617	.96907984	.96853300	.97213961	.97295609
16	.09783009	.27007465	.90913550	.91670051	.96614452	.96557047	.96950047	.96964461
17	.05945855	.18552533	.90152714	.90999347	.96395287	.96411589	.96737199	.96786906
18	.03190681	.12794863	.89698458	.90553075	.96247518	.96286329	.96637436	.96671137



$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 45$$

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	.9999999	1.0000000
7	.9999995	.9999997
8	.9999971	.9999984
9	.9999863	.9999923
10	.9999434	.9999671
11	.9997953	.9998765
12	.9993423	.9995880
13	.9981093	.9987705
14	.9951022	.9966956
15	.9884983	.9919528
16	.9753854	.9821511
17	.9517629	.9637729
18	.9130459	.9324218
19	.8551814	.8836534
20	.7761776	.8143510
21	.6775002	.7242578
22	.5646339	.6170041
23	.4463356	.5000000
24	.3326764	.3829959
25	.2325746	.2757422
26	.1517866	.1856490
27	.0920790	.1163466
28	.0517102	.0675782
29	.0267766	.0362271
30	.0127335	.0178489
31	.0055375	.0080472
32	.0021922	.0033044
33	.0007860	.0012295
34	.0002537	.0004120
35	.0000733	.0001235
36	.0000188	.0000329
37	.0000042	.0000077
38	.0000008	.0000016
39	.0000001	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 46

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.3701764	.6051797	.7536799	.8470756	.9055318	.9419394	.9645010	.9784106
2	.0775310	.2345321	.4032452	.5539706	.6768192	.7714637	.8415907	.8920531
3	.0110207	.0641367	.1593860	.2791846	.4059753	.5266316	.6334360	.7230928
4	.0011674	.0133939	.0487695	.1112598	.1960029	.2974271	.4036452	.5076072
5	.0000974	.0022177	.0119923	.0360435	.0786119	.1401537	.2177123	.3061750
6	.0000066	.0003017	.0024378	.0097178	.0263148	.0550284	.1001547	.1590419
7	.0000004	.0000345	.0004186	.0022223	.0075062	.0190483	.0396905	.0716150
8		.0000034	.0000617	.0004376	.0018495	.0056330	.0136844	.0281730
9		.0000003	.0000079	.0000751	.0003981	.0014586	.0041418	.0097574
10			.0000009	.0000114	.0000755	.0003336	.0011092	.0029961
11			.0000001	.0000015	.0000127	.0000679	.0002646	.0008207
12				.0000002	.0000019	.0000124	.0000566	.0002017
13					.0000003	.0000020	.0000109	.0000447
14						.0000003	.0000019	.0000089
15							.0000003	.0000016
16								.0000003

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9859412	.9921448	.9953017	.9972062	.9983485	.9990296	.9994334	.9996713
2	.9275307	.9519962	.9685900	.9796811	.9869966	.9917633	.9948340	.9967909
3	.7953261	.8516246	.8943076	.9259111	.9488308	.9651482	.9765717	.9844465
4	.6015567	.6880551	.7596534	.8183710	.8651878	.9016020	.9293046	.9499607
5	.3996701	.4926826	.5807448	.6607270	.7308302	.7903963	.8396360	.8793468
6	.2302874	.3101140	.3950014	.4801529	.5621482	.6383288	.7067156	.7663646
7	.1150144	.1718042	.2381383	.3118907	.3899925	.4691686	.5464392	.6193083
8	.0511201	.0839795	.1273351	.1907774	.2629417	.3318102	.3947958	.4592471
9	.0198282	.0346545	.0605791	.0934168	.1358573	.1869298	.2457436	.3106188
10	.0069031	.0140266	.0257426	.0434334	.0683845	.1010947	.1421360	.1910871
11	.0021367	.0054432	.0098118	.0181136	.0309252	.0493941	.0744864	.1068457
12	.0005939	.0015038	.0033678	.0068139	.0126555	.0210495	.0354160	.0543315
13	.0001489	.0004216	.0010449	.0023196	.0046931	.0087712	.0153063	.0251570
14	.0000338	.0001071	.0002940	.0007168	.0015814	.0032030	.0060249	.0106232
15	.0000070	.0000247	.0000752	.0002016	.0004854	.0010663	.0021641	.0040978
16	.0000013	.0000052	.0000176	.0000517	.0001360	.0003243	.0007106	.0014462
17	.0000002	.0000010	.0000037	.0000121	.0000349	.0000903	.0002137	.0004677
18		.0000003	.0000007	.0000026	.0000082	.0000230	.0000589	.0001387
19			.0000001	.0000005	.0000018	.0000054	.0000149	.0000378
20				.0000001	.0000003	.0000012	.0000035	.0000095
21					.0000001	.0000002	.0000007	.0000022
22							.0000001	.0000005
23								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9998105	.9998915	.9999383	.9999652	.9999805	.9999891	.9999940	.9999967
2	.9980252	.9990759	.9995725	.9997416	.9998481	.9999115	.9999489	.9999696
3	.9897675	.9933847	.9957586	.9973104	.9983128	.9989528	.9993569	.9996091
4	.9650816	.9759632	.9836697	.9890456	.9927423	.9952493	.9969271	.9980356
5	.9106630	.9348528	.9531461	.9668340	.9760240	.9840203	.9891252	.9926937
6	.8120339	.8500431	.8811223	.9201897	.9412000	.9574160	.9695495	.9785235
7	.6889923	.7345437	.7768470	.8405056	.8767159	.9061402	.9295929	.9479460
8	.5326217	.6027167	.6678009	.7266712	.7786437	.8234979	.8613924	.8927683
9	.3734821	.4500883	.5202343	.5879355	.6515533	.7098647	.7620811	.8078239
10	.2470481	.3006279	.3740046	.4414923	.5089119	.5745409	.6368313	.6945646
11	.1466854	.1937345	.2472411	.3060323	.3686177	.4333184	.4984050	.5622300
12	.0794106	.1111946	.1498663	.1952014	.2465665	.3029591	.3630855	.4254632
13	.0392213	.0583490	.0832467	.1143872	.1519383	.1957191	.2451920	.2994938
14	.0174927	.0280099	.0423765	.0615472	.0861500	.1166111	.1530929	.1954543
15	.0072089	.0123117	.0197790	.0304093	.0449282	.0640175	.0882470	.1180113
16	.0027573	.0049604	.0084710	.0138024	.0215518	.0323712	.0469253	.0658392
17	.0009551	.0018338	.0033317	.0057585	.0095123	.0150773	.0230110	.0339181
18	.0003037	.0006227	.0012044	.0022097	.0038645	.0064696	.0104053	.0161293
19	.0000887	.0001944	.0004004	.0007803	.0014457	.0025580	.0043389	.0070788
20	.0000238	.0000558	.0001225	.0002537	.0004982	.0009322	.0016686	.0028670
21	.0000059	.0000147	.0000345	.0000760	.0001502	.0003131	.0005917	.0010714
22	.0000013	.0000036	.0000090	.0000210	.0000463	.0000970	.0001935	.0003694
23	.0000003	.0000008	.0000021	.0000053	.0000125	.0000277	.0000583	.0001174
24	.0000001	.0000002	.0000005	.0000012	.0000031	.0000073	.0000162	.0000344
25			.0000001	.0000003	.0000007	.0000018	.0000041	.0000093
26				.0000001	.0000001	.0000004	.0000010	.0000023
27						.0000001	.0000002	.0000005
28								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999882	.9999990	.9999995	.9999997	.9999999	.9999999	1.0000000	1.0000000
2	.9999708	.9999834	.9999907	.9999948	.9999972	.9999984	.9999992	.9999996
3	.9997649	.9998601	.9999176	.9999520	.9999723	.9999842	.9999911	.9999950
4	.9987586	.9992245	.9995211	.9997076	.9998235	.9998947	.9999379	.9999638
5	.9951527	.9968240	.9979446	.9986860	.9991702	.9994823	.9996810	.9998058
6	.9850562	.9897392	.9930466	.9953488	.9969287	.9979978	.9987114	.9991812
7	.9620586	.9727294	.9806675	.9864805	.9906724	.9937508	.9957348	.9971728
8	.9182536	.9385783	.9545043	.9667732	.9760703	.9830033	.9880929	.9917721
9	.8470706	.8800830	.9073297	.9294114	.9469946	.9607587	.9713555	.9793822
10	.7468870	.7933062	.8336509	.8680643	.8968516	.9205066	.9396057	.9547644
11	.6233272	.6804964	.7328433	.7797925	.8210721	.8566783	.8868273	.9119005
12	.4885347	.5507790	.6100088	.6674467	.7197739	.7671529	.8092244	.8458854
13	.3574865	.4178478	.4791619	.5400173	.5990959	.6552460	.7075346	.7552765
14	.2432393	.2956948	.3518154	.4104097	.4701810	.5298130	.5880462	.6437579
15	.1534737	.1945296	.2407922	.2916020	.3460648	.4030981	.4615072	.5200565
16	.0896403	.1187012	.1531903	.1930370	.2379146	.2872453	.3402855	.3958700
17	.0484146	.0670915	.0904140	.1197704	.1523275	.1910461	.2346532	.2826412
18	.0241642	.0350757	.0494399	.0678023	.0906367	.1182905	.1509514	.1806103

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 46$$

x	.25	.26	.27	.28	.29	.30	.31	.32
19	.0111408	.0169583	.0250438	.0358499	.0500405	.0680544	.0903653	.1173189
20	.0047434	.0075774	.0117155	.0175691	.0256045	.0363264	.0502519	.0678785
21	.0018645	.0031278	.0051205	.0079611	.0121303	.0179694	.0259222	.0364692
22	.0006764	.0011923	.0020178	.0033350	.0053164	.0082290	.0123889	.0181692
23	.0002364	.0004194	.0007737	.0013907	.0021537	.0034853	.0054796	.0083831
24	.0000699	.0001361	.0002651	.0004611	.0008057	.0013639	.0022405	.0035776
25	.0000199	.0000407	.0000801	.0001519	.0002781	.0004926	.0008459	.0014104
26	.0000032	.0000112	.0000232	.0000461	.0000885	.0001640	.0002945	.0005130
27	.0000013	.0000028	.0000062	.0000129	.0000259	.0000503	.0000944	.0001710
28	.0000003	.0000007	.0000015	.0000035	.0000070	.0000142	.0000278	.0000545
29	.0000001	.0000001	.0000003	.0000008	.0000017	.0000037	.0000075	.0000150
30			.0000001	.0000002	.0000004	.0000009	.0000019	.0000038
31					.0000001	.0000002	.0000004	.0000009
32							.0000001	.0000002

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999973	.9999985	.9999992	.9999996	.9999998	.9999999	.9999999	1.0000000
4	.9999791	.9999881	.9999933	.9999963	.9999980	.9999989	.9999994	.9999997
5	.9998832	.9999307	.9999593	.9999765	.9999865	.9999924	.9999958	.9999977
6	.9994864	.9996820	.9998056	.9998827	.9999302	.9999590	.9999762	.9999864
7	.9981508	.9988065	.9992400	.9995225	.9997040	.9998190	.9998909	.9999351
8	.9943919	.9962295	.9974996	.9983645	.9989450	.9993289	.9995791	.9997398
9	.9853661	.9897576	.9929310	.9951892	.9967719	.9978644	.9986073	.9991048
10	.9665962	.9756808	.9825443	.9876478	.9915832	.9940747	.9959839	.9973174
11	.9321901	.9488494	.9618509	.9719523	.9796734	.9854804	.9897782	.9929087
12	.8772518	.9036131	.9253841	.9430583	.9571663	.9682415	.9767934	.9832896
13	.7986481	.8356444	.8681126	.8956540	.9186125	.9374246	.9525799	.9645857
14	.6960061	.7440689	.7874580	.8259151	.8597930	.8880256	.9120917	.9319739
15	.5775443	.6328700	.6850887	.7334487	.7774124	.8166594	.8510750	.8807268
16	.4530705	.5106636	.5674953	.6224891	.6746980	.7233458	.7670522	.8076420
17	.3342871	.3866886	.4448137	.5015604	.5578197	.6125360	.6647617	.7136992
18	.2310422	.2778023	.3282384	.3815210	.4366852	.4926848	.5484493	.6029429
19	.1491141	.1857703	.2271069	.2727382	.3220669	.3743371	.4286412	.4839824
20	.0896470	.1159024	.1468567	.1825575	.2228650	.2674424	.3157591	.3671069
21	.0501058	.0673124	.0845211	.1140780	.1442121	.1792256	.2183280	.2619228
22	.0259932	.0363214	.0496306	.0663883	.0870208	.1118793	.1412060	.1751025
23	.0124974	.0181793	.0258340	.0359043	.0488520	.0651341	.0851748	.1093896
24	.0055612	.0084270	.0124634	.0180115	.0254607	.0352382	.0477930	.0635745
25	.0022878	.0036524	.0055637	.0083662	.0122954	.0176783	.0248893	.0343421
26	.0008682	.0014298	.0022944	.0035918	.0054913	.0082073	.0120032	.0171924
27	.0003036	.0005219	.0008725	.0014226	.0022636	.0035108	.0053489	.0079580
28	.0000977	.0001751	.0003054	.0005188	.0008595	.0013902	.0021975	.0033977
29	.0000288	.0000540	.0000982	.0001738	.0002999	.0005050	.0008303	.0013348
30	.0000078	.0000152	.0000289	.0000534	.0000959	.0001682	.0002878	.0004811
31	.0000019	.0000039	.0000078	.0000150	.0000280	.0000512	.0000918	.0001587
32	.0000004	.0000009	.0000019	.0000038	.0000075	.0000142	.0000263	.0000477
33	.0000001	.0000002	.0000004	.0000009	.0000018	.0000036	.0000069	.0000130
34			.0000001	.0000002	.0000004	.0000008	.0000018	.0000034
35					.0000001	.0000002	.0000003	.0000007
36							.0000001	.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999987	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
6	.9999983	.9999957	.9999977	.9999987	.9999993	.9999997	.9999998	.9999999
7	.9999620	.9999780	.9999875	.9999930	.9999961	.9999979	.9999989	.9999994
8	.9998414	.9999048	.9999437	.9999672	.9999812	.9999894	.9999941	.9999968
9	.9994329	.9996461	.9997824	.9998682	.9999215	.9999539	.9999734	.9999849
10	.9982344	.9988551	.9992688	.9995401	.9997152	.9998264	.9998959	.9999386
11	.9951527	.9967359	.9978351	.9985860	.9990908	.9994246	.9996417	.9997806
12	.9881443	.9917136	.9948955	.9961328	.9974189	.9983044	.9989040	.9993031
13	.9739392	.9811861	.9865073	.9905108	.9934291	.9955212	.9969958	.9980176
14	.9481819	.9610167	.9711412	.9789578	.9848915	.9893203	.9925701	.9949141
15	.9058329	.9267261	.9438173	.9575612	.9684262	.9768695	.9833191	.9881614
16	.8431400	.8737529	.8998433	.9216965	.9396867	.9542427	.9658179	.9748639
17	.7587303	.7994308	.8355700	.8670989	.8941280	.9168941	.9357480	.9510818
18	.6552170	.7044551	.7500048	.7913963	.8283481	.8607591	.8886908	.9129410
19	.5393350	.5936503	.6460050	.6955665	.7416383	.7837124	.8214592	.8547883
20	.4206416	.4754048	.5303940	.5846056	.6370880	.6869910	.7335974	.7763554
21	.3093005	.3598096	.4126493	.4669078	.5216088	.5751614	.6264119	.6746907
22	.2135058	.2561735	.3026755	.3524127	.4046292	.4587504	.5139252	.5670739
23	.1378590	.1708913	.2083998	.2501849	.2958671	.3441918	.3965472	.4499933
24	.0830053	.1064509	.1341873	.1663700	.2030110	.2439509	.2888569	.3372200
25	.0464749	.0617314	.0805361	.1032608	.1302034	.1615469	.1973370	.2374590
26	.0241357	.0332344	.0449176	.0596248	.0777819	.0997745	.1258170	.1564884
27	.0115978	.0165670	.0232155	.0319386	.0431397	.0578789	.0767681	.0960046
28	.0051439	.0076266	.0110882	.0158155	.0221445	.0304544	.0411598	.0546938
29	.0020994	.0030335	.0048802	.0072825	.0104080	.0149581	.0209307	.0288169
30	.0007867	.0012590	.0019734	.0030318	.0045884	.0067585	.0098088	.0139918
31	.0002698	.0004487	.0007307	.0011659	.0018239	.0027989	.0040159	.0056368
32	.0000844	.0001459	.0002469	.0004093	.0006649	.0010593	.0016560	.0025416
33	.0000240	.0000431	.0000758	.0001306	.0002204	.0003647	.0005919	.0009489
34	.0000062	.0000115	.0000211	.0000377	.0000661	.0001136	.0001916	.0003168
35	.0000014	.0000028	.0000053	.0000098	.0000178	.0000319	.0000558	.0000959
36	.0000003	.0000006	.0000012	.0000023	.0000043	.0000080	.0000145	.0000260
37	.0000001	.0000001	.0000002	.0000005	.0000009	.0000018	.0000034	.0000068
38				.0000001	.0000002	.0000003	.0000007	.0000013
39						.0000001	.0000001	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 46$$

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	.9999997	.9999998
8	.9999983	.9999991
9	.9999916	.9999954
10	.9999644	.9999797
11	.9998679	.9999218
12	.9995643	.9997322
13	.9987135	.9991793
14	.9965757	.9977331
15	.9917342	.9943242
16	.9818107	.9870520
17	.9633370	.9729620
18	.9320172	.9480973
19	.8835351	.9080376
20	.8148805	.8490022
21	.7258521	.7693044
22	.6199384	.6706310
23	.5043018	.5585020
24	.3883694	.4414980
25	.2816245	.3293690
26	.1913727	.2306956
27	.1211357	.1509978
28	.0714909	.0919624
29	.0389940	.0519027
30	.0196146	.0270380
31	.0090635	.0129480
32	.0038314	.0056758
33	.0014750	.0022669
34	.0005145	.0008207
35	.0001617	.0002678
36	.0000455	.0000782
37	.0000114	.0000203
38	.0000025	.0000046
39	.0000005	.0000009
40	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 17

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.3764746	.6130761	.7610695	.8531926	.9102552	.9454231	.9669860	.9801378
2	.0804575	.2419450	.4137583	.5656948	.6882548	.7816923	.8501944	.8989617
3	.0116858	.0677406	.1667018	.2901760	.4195175	.5413215	.6480066	.7366096
4	.0012659	.0144127	.0520880	.1179768	.2073565	.3111793	.4197365	.5248460
5	.0001081	.0024412	.0130956	.0390528	.0845264	.1495901	.2307276	.3222095
6	.0000076	.0003401	.0027245	.0107708	.0289296	.0688880	.1083837	.1708125
7	.0000004	.0000399	.0004792	.0025221	.0084466	.0212551	.0439230	.0786091
8		.0000040	.0000724	.0005090	.0021323	.0054379	.0155048	.0316484
9		.0000004	.0000095	.0000896	.0004707	.0011090	.0048098	.0112306
10			.0000011	.0000139	.0000917	.0004011	.0013215	.0035370
11			.0000001	.0000019	.0000159	.0000838	.0003237	.0009948
12				.0000002	.0000025	.0000157	.0000711	.0002512
13					.0000003	.0000026	.0000141	.0000572
14						.0000004	.0000025	.0000118
15						.0000001	.0000004	.0000022
16							.0000001	.0000004
17								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9881165	.9929303	.9958185	.9975414	.9985632	.9991655	.9995184	.9997239
2	.9328776	.9560111	.9715283	.9817841	.9884723	.9927806	.9955239	.9972518
3	.8072245	.8616619	.9024787	.9323635	.9537924	.9688743	.9793111	.9864216
4	.6208160	.7044130	.7744653	.8312758	.8760614	.9104985	.9363946	.9554784
5	.4180199	.5122200	.6004247	.6796442	.7482967	.8059651	.8530863	.8906450
6	.2455318	.3285609	.4154332	.5018218	.5841117	.6596183	.7266536	.7844417
7	.1261170	.1857292	.2553844	.3320828	.4123780	.4928510	.5702752	.6428373
8	.0569426	.0927700	.1395224	.1965110	.2630757	.3338493	.4074048	.4848569
9	.0227355	.0411260	.0679223	.1040760	.1497809	.2044130	.2666014	.3343993
10	.0080753	.0162604	.0295746	.0494554	.0770689	.1131116	.1576772	.2102122
11	.0025657	.0057615	.0115642	.0211520	.0357819	.0566322	.0846338	.1203243
12	.0007328	.0018377	.0040767	.0081698	.0150306	.0257058	.0412766	.0627338
13	.0001890	.0005298	.0013004	.0028589	.0057282	.0106022	.0183227	.0298250
14	.0000442	.0001385	.0003766	.0009091	.0019959	.0039825	.0074171	.0129486
15	.0000094	.0000330	.0000993	.0002634	.0006279	.0013655	.0027432	.0051419
16	.0000018	.0000072	.0000239	.0000697	.0001814	.0004262	.0009286	.0018705
17	.0000003	.0000014	.0000053	.0000169	.0000480	.0001230	.0002882	.0006242
18	.0000001	.0000003	.0000011	.0000038	.0000117	.0000324	.0000821	.0001914
19			.0000002	.0000008	.0000026	.0000079	.0000215	.0000540
20				.0000001	.0000005	.0000018	.0000052	.0000140
21					.0000001	.0000004	.0000012	.0000033
22						.0000001	.0000002	.0000007
23								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9978427	.9989110	.9995500	.9998721	.9999846	.9999915	.9999954	.9999975
2	.9887287	.9937931	.9973990	.9992446	.9997917	.9998781	.9999308	.9999604
3	.9611962	.9743587	.9864263	.9957612	.9986128	.9996148	.9998844	.9999907
4	.9092833	.9390991	.9759666	.9906986	.9979121	.9993643	.9997860	.9999132
5	.8199133	.8922526	.9589780	.9712764	.9801669	.9864907	.9909197	.9939757
6	.6329507	.7726938	.9045344	.9295186	.9487442	.9632689	.9740519	.9819244
7	.4082694	.5658107	.8151393	.8564424	.8902743	.9174209	.9387829	.9552846
8	.2586947	.3883895	.6923197	.7494381	.7992388	.8416792	.8770786	.9060110
9	.1455158	.2275614	.5482719	.6156827	.6782423	.7348640	.7849227	.8282105
10	.0795618	.1340908	.4018530	.4707810	.5388666	.6043122	.6656367	.7217468
11	.0407471	.0744153	.2713413	.3331243	.3980794	.4643874	.5302437	.5939903
12	.0190473	.0380518	.1683675	.2173676	.2721973	.3316382	.3942092	.4582873
13	.0080535	.0178612	.0959044	.1305501	.1718102	.2193110	.2723082	.3297264
14	.0031525	.0074709	.0501419	.0721152	.0999656	.1340140	.1742759	.2204237
15	.0011658	.0028725	.0246349	.0366369	.0535848	.0755880	.1031615	.1365976
16	.0003294	.0010236	.0106195	.0171238	.0264609	.0393333	.0564293	.0783605
17	.0001615	.0003966	.0042082	.0073673	.0130406	.0188820	.0285113	.0415792
18	.0000144	.0001407	.0016085	.0029194	.0050505	.0083633	.0133046	.0203936
19	.0000253	.0000715	.0005532	.0010662	.0019537	.0034186	.0057342	.0092509
20	.0000049	.0000807	.0001753	.0003590	.0006972	.0012899	.0022827	.0038778
21	.0000089	.0000221	.0000512	.0001115	.0002296	.0004493	.0008394	.0015023
22	.0000021	.0000056	.0000138	.0000320	.0000698	.0001445	.0002851	.0005378
23	.0000005	.0000013	.0000034	.0000084	.0000196	.0000435	.0000884	.0001779
24	.0000001	.0000003	.0000008	.0000021	.0000051	.0000118	.0000259	.0000543
25		.0000001	.0000002	.0000005	.0000012	.0000030	.0000069	.0000153
26				.0000001	.0000003	.0000007	.0000017	.0000040
27					.0000001	.0000001	.0000004	.0000010
28							.0000001	.0000002

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999987	.9999993	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000
2	.9999776	.9999875	.9999931	.9999963	.9999979	.9999989	.9999994	.9999997
3	.9998164	.9998923	.9999373	.9999640	.9999795	.9999885	.9999936	.9999965
4	.9990102	.9993898	.9996282	.9997760	.9998667	.9999216	.9999544	.9999738
5	.9960542	.9974482	.9983703	.9989721	.9993597	.9996060	.9997606	.9998564
6	.9875804	.9915813	.9943691	.9962832	.9975787	.9984432	.9990120	.9993811
7	.9678080	.9771519	.9840099	.9889637	.9924868	.9949546	.9966575	.9978155
8	.9292049	.9474576	.9615683	.9722913	.9803049	.9861974	.9904619	.9935004
9	.8648663	.8952918	.9200669	.9399787	.9554266	.9674321	.9765441	.9833470
10	.7719389	.8158682	.8535508	.8852415	.9113931	.9325823	.9494481	.9626421
11	.6542171	.7098269	.7600638	.8045086	.8430481	.8758368	.9031886	.9256170
12	.5228328	.5848055	.6437581	.6989035	.7491504	.7940105	.8332813	.8670102
13	.3902486	.4524099	.5147066	.5756975	.6340926	.6888181	.7390084	.7842714
14	.2718011	.3274546	.3861990	.4466999	.5075664	.5674423	.6250876	.6794438
15	.1759151	.2308325	.2707685	.3248687	.3820585	.4411123	.5007343	.5596409
16	.1055987	.1384166	.1760428	.2206354	.2698782	.3220011	.3778228	.4356097
17	.0587210	.0805026	.1073636	.1395650	.1771478	.2199059	.2673806	.3180744

$$I_{n+1}(x) = \sum_{k=0}^{n} \binom{n}{k} x^k (1-x)^{n-k}$$

n = 47

x	.35	.36	.37	.38	.39	.40	.41	.42	.43	.44	.45	.46	.47	.48
18	.0702268	.0433972	.0605029	.0820740	.1085270	.1401172	.1768990	.2187002						
19	.0143967	.0216688	.0316161	.0448112	.0618134	.0831252	.1091470	.1401322						
20	.0063420	.0100164	.0153088	.0226933	.0326909	.0458448	.0626870	.0836994						
21	.0025843	.0042847	.0066647	.0100513	.0160378	.0234765	.0334644	.0465202						
22	.0009735	.0016955	.0030492	.0046303	.0072224	.0111512	.0165842	.0240252						
23	.0003389	.0006204	.0010940	.0018631	.0030709	.0049084	.0076215	.0115146						
24	.0001090	.0002098	.0003884	.0006934	.0011967	.0020003	.0032446	.0051153						
25	.0000324	.0000655	.0001274	.0002385	.0004311	.0007540	.0012782	.0021039						
26	.0000089	.0000189	.0000306	.0000757	.0001435	.0002626	.0004664	.0008001						
27	.0000022	.0000050	.0000108	.0000222	.0000440	.0000844	.0001564	.0002810						
28	.0000005	.0000012	.0000028	.0000060	.0000125	.0000250	.0000485	.0000910						
29	.0000001	.0000003	.0000007	.0000015	.0000032	.0000068	.0000138	.0000271						
30		.0000001	.0000001	.0000003	.0000008	.0000017	.0000036	.0000074						
31				.0000001	.0000002	.0000004	.0000009	.0000019						
32						.0000001	.0000002	.0000004						
33								.0000001						

x	.33	.34	.35	.36	.37	.38	.39	.40	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999981	.9999990	.9999995	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999851	.9999917	.9999954	.9999975	.9999987	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999149	.9999502	.9999712	.9999836	.9999908	.9999949	.9999972	.9999985	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9996174	.9997665	.9998594	.9999165	.9999510	.9999717	.9999839	.9999909	.9999956	.9999979	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
7	.9985916	.9991042	.9994379	.9996522	.9997877	.9998722	.9999242	.9999556	.9999759	.9999879	.9999946	.9999979	.9999992	.9999998	1.0000000	1.0000000
8	.9956323	.9971057	.9981097	.9987814	.9992258	.9995152	.9997007	.9998179	.9998919	.9999373	.9999652	.9999824	.9999922	.9999970	.9999991	.9999998
9	.9883446	.9910581	.9945300	.9963323	.9975759	.9984209	.9989863	.9993588	.9995988	.9997466	.9998373	.9998931	.9999273	.9999483	.9999611	.9999690
10	.9737903	.9804669	.9861797	.9903627	.9933770	.9955148	.9970071	.9980324	.9987124	.9991557	.9994312	.9996040	.9997120	.9997797	.9998221	.9998485
11	.9436781	.9570721	.9690936	.9776027	.9840060	.9887462	.9921985	.9946722	.9964775	.9977284	.9985722	.9991009	.9994337	.9996396	.9997665	.9998429
12	.8954475	.9189035	.9381475	.9534601	.9654939	.9747923	.9818575	.9871372	.9910124	.9937555	.9956111	.9967966	.9975284	.9979844	.9982645	.9984337
13	.8241813	.8587838	.8881576	.9127196	.9328774	.9491350	.9620332	.9720673	.9797007	.9853179	.9892663	.9918799	.9934999	.9945124	.9951284	.9955000
14	.7296700	.7752046	.8156671	.8511011	.8813042	.9067974	.9278821	.9450187	.9586179	.9690324	.9765666	.9814966	.9841911	.9858179	.9868179	.9874179
15	.6166367	.6706776	.7209180	.7667366	.8077452	.8437786	.8748715	.9012257	.9232757	.9414555	.9562555	.9681722	.9776722	.9851722	.9910222	.9955222
16	.4941471	.5522138	.6086530	.6624346	.7127023	.7588050	.8003091	.8369959	.8688441	.8960017	.9187521	.9374770	.9526195	.9646510	.9740435	.9812467
17	.3734858	.4301601	.4877523	.5450948	.6010647	.6546430	.7049670	.7513563	.7933383	.8306461	.8632075	.8911219	.9146294	.9340766	.9498009	.9624978
18	.2651131	.3155036	.3690398	.4247352	.4815050	.5382283	.5938111	.6472454	.6977575	.7449449	.7867970	.8247055	.8579491	.8865830	.9108077	.9309370
19	.1761504	.2170612	.2625029	.3118981	.3644757	.4193092	.4753664	.5315666	.5868407	.6401883	.6907272	.7377316	.7806577	.8191539	.8530580	.8823828
20	.1093711	.1396575	.1749443	.2150215	.2595697	.3080624	.3597831	.4138583	.4693018	.5250679	.5801004	.6334284	.6841360	.7314828	.7748924	.8139744
21	.0631544	.0838330	.1089386	.1387311	.1733137	.2126054	.2563256	.3039973	.3549503	.4081596	.4632795	.5186949	.5735747	.6269270	.6778491	.7255697
22	.0339504	.0466583	.0632423	.0838569	.1091816	.1387035	.1718839	.2098306	.2527816	.2997001	.3499642	.4027906	.4572700	.5124135	.5672040	.6206499
23	.0169510	.0243476	.0341628	.0468705	.0629744	.0828973	.1070266	.1356388	.1688742	.2067094	.2489383	.2951652	.3448101	.3971288	.4512449	.5061919
24	.0078502	.0117428	.0171431	.0244529	.0341155	.0465986	.0623716	.0818765	.1054953	.1335158	.1660987	.2032490	.2447963	.2903857	.3394713	.3913512
25	.0033678	.0052494	.0079706	.0113365	.0171666	.0243511	.0338218	.0460351	.0614524	.0805136	.1030056	.1310292	.1629668	.1994527	.2403514	.2853443
26	.0013365	.0021713	.0034307	.0053106	.0080008	.0118067	.0170200	.0240523	.0332948	.0452031	.0602332	.0788246	.1013716	.1281899	.1594844	.1953200
27	.0004899	.0008304	.0013702	.0021035	.0031579	.0046441	.0067441	.0096517	.0134579	.0183652	.0245038	.0320844	.0412172	.0520266	.0645526	.0787227
28	.0001656	.0002929	.0005039	.0008442	.0013790	.0021991	.0034266	.0052218	.0077892	.0113816	.0163029	.0229071	.0315923	.0427909	.0569526	.0745227
29	.0000516	.0000952	.0001707	.0002880	.0004770	.0007714	.0012414	.0019635	.0030716	.0047355	.0071986	.0107707	.0157334	.0220831	.0304423	.0412376
30	.0000147	.0000294	.0000532	.0000967	.0001714	.0002962	.0004994	.0008226	.0013249	.0020883	.0032233	.0048757	.0072322	.0105260	.0150390	.0211076
31	.0000039	.0000078	.0000152	.0000288	.0000532	.0000957	.0001679	.0002877	.0004817	.0007890	.0012651	.0019869	.0030509	.0046139	.0068446	.0099586
32	.0000009	.0000019	.0000040	.0000078	.0000151	.0000283	.0000516	.0000921	.0001604	.0002731	.0004549	.0007422	.0011864	.0018595	.0028591	.0043150
33	.0000002	.0000004	.0000009	.0000019	.0000039	.0000076	.0000145	.0000269	.0000487	.0000843	.0001494	.0002532	.0004204	.0006842	.0010920	.0017103
34		.0000001	.0000002	.0000004	.0000009	.0000019	.0000037	.0000071	.0000135	.0000244	.0000446	.0000786	.0001355	.0002291	.0003797	.0006174
35				.0000001	.0000002	.0000004	.0000009	.0000017	.0000034	.0000064	.0000121	.0000221	.0000396	.0000695	.0001196	.0002020
36						.0000001	.0000002	.0000004	.0000008	.0000015	.0000029	.0000056	.0000104	.0000190	.0000339	.0000595
37								.0000001								

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 47$$

x	.41	.42	.43	.44	.45	.46	.47	.48
37	.0000002	.0000003	.0000006	.0000013	.0000024	.0000046	.0000086	.0000157
38		.0000001	.0000001	.0000003	.0000005	.0000010	.0000019	.0000037
39					.0000001	.0000002	.0000004	.0000008
40							.0000001	.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	.9999998	.9999999
8	.9999990	.9999995
9	.9999949	.9999972
10	.9999777	.9999875
11	.9999152	.9999508
12	.9997130	.9998270
13	.9991304	.9994557
14	.9976232	.9984562
15	.9941065	.9960286
16	.9866732	.9906881
17	.9733896	.9800970
18	.9473644	.9605297
19	.9072913	.9280675
20	.8485250	.8785199
21	.7694804	.8091533
22	.6716361	.7199677
23	.5609637	.6145665
24	.4451763	.5000000
25	.3339295	.3854335
26	.2355961	.2800323
27	.1586538	.1908467
28	.0959146	.1214801
29	.0549175	.0719325
30	.0291105	.0394703
31	.0143316	.0199930
32	.0063952	.0093119
33	.0026295	.0039714
34	.0009853	.0015436
35	.0003346	.0005743
36	.0001084	.0001730
37	.0000281	.0000492
38	.0000068	.0000125
39	.0000015	.0000028
40	.0000003	.0000005
41		.0000001

$$I_x(r,s) = \sum_{k=r}^{n} \binom{n}{k} x^k (1-x)^{n-k}$$

$n = 40$

k	.01	.02	.03	.04	.05	.06	.07	.08
1	.3327099	.5208146	.7682375	.8590649	.9147424	.9486977	.9692969	.9817268
2	.0834177	.2493676	.4241776	.5771947	.6993546	.7915161	.8583696	.9054558
3	.0133736	.0712247	.1741135	.3011968	.4329544	.5557438	.6621599	.7495978
4	.0013701	.0154793	.0555264	.1248648	.2179645	.3249879	.4357099	.5417871
5	.0001197	.0026806	.0142654	.0422091	.0906679	.1592855	.2439578	.3384941
6	.0000086	.0003821	.0030356	.0119021	.0317095	.0662101	.1169478	.1829307
7	.0000005	.0000459	.0005465	.0028521	.0094708	.0236331	.0484352	.0859854
8		.0000047	.0000846	.0005895	.0024480	.0073270	.0174941	.0354052
9		.0000004	.0000114	.0001064	.0005537	.0019938	.0055585	.0126641
10			.0000014	.0000169	.0001106	.0004795	.0015687	.0041525
11			.0000001	.0000024	.0000197	.0001028	.0003936	.0011982
12				.0000003	.0000031	.0000198	.0000808	.0003107
13					.0000004	.0000034	.0000181	.0000727
14					.0000001	.0000005	.0000033	.0000154
15						.0000001	.0000006	.0000030
16							.0000001	.0000005
17								.0000001

k	.09	.10	.11	.12	.13	.14	.15	.16
1	.9891860	.9936373	.9962785	.9978364	.9987500	.9992823	.9995906	.9997680
2	.9378491	.9597030	.9742003	.9836750	.9897842	.9936745	.9961231	.9976473
3	.8185333	.8710967	.9100742	.9382939	.9583008	.9722212	.9817430	.9881545
4	.6375928	.7201378	.7885468	.8434063	.8861664	.9186711	.9428321	.9604293
5	.4362716	.5314393	.6195692	.6978400	.7649061	.8205998	.8655825	.9010184
6	.2610558	.3469340	.4357823	.5231605	.6054557	.6801068	.7456185	.8014342
7	.1368643	.2000131	.2729897	.3524510	.4347033	.5161984	.5938993	.6654940
8	.0631683	.1020659	.1522672	.2127795	.2816150	.3661018	.4332555	.5101338
9	.0250142	.0462904	.0757983	.1151682	.1643792	.2225329	.2879673	.3594726
10	.0093947	.0187469	.0337929	.0560099	.0865215	.1258938	.1740158	.2300821
11	.0030615	.0068114	.0135453	.0245484	.0411492	.0645393	.0955903	.1347064
12	.0008978	.0022301	.0049003	.0087277	.0177282	.0300355	.0477802	.0719483
13	.0002379	.0006606	.0016058	.0034962	.0069375	.0127167	.0217658	.0359094
14	.0000572	.0001779	.0004782	.0011431	.0024724	.0049093	.0090529	.0156488
15	.0000125	.0000435	.0001298	.0003409	.0008044	.0017318	.0034443	.0063910
16	.0000025	.0000097	.0000322	.0000930	.0002395	.0005594	.0012008	.0023939
17	.0000005	.0000020	.0000073	.0000238	.0000653	.0001657	.0003843	.0008236
18	.0000001	.0000004	.0000015	.0000053	.0000164	.0000451	.0001130	.0002606
19		.0000001	.0000003	.0000011	.0000039	.0000113	.0000306	.0000759
20			.0000001	.0000002	.0000008	.0000028	.0000076	.0000204
21					.0000002	.0000006	.0000018	.0000051
22						.0000001	.0000004	.0000012
23							.0000001	.0000002

k	.17	.18	.19	.20	.21	.22	.23	.24
1	.9998695	.9999370	.9999595	.9999777	.9999878	.9999934	.9999964	.9999981
2	.9985861	.9995183	.9995037	.9997101	.9998382	.9999038	.9999454	.9999693
3	.9934008	.9951929	.9969911	.9981379	.9988604	.9993102	.9995870	.9997554
4	.9730085	.9818458	.9879539	.9921111	.9948992	.9967429	.9979456	.9987198
5	.9283063	.9400850	.9641058	.9751608	.9830534	.9885968	.9924299	.9950407
6	.8477344	.8852144	.9148787	.9378701	.9553430	.9683777	.9779315	.9848167
7	.7294652	.7850496	.8321244	.8710577	.9025530	.9275074	.9468948	.9616781
8	.5841224	.6531253	.7156554	.7708390	.8183563	.8583424	.8912706	.9178366
9	.4315562	.5047105	.5756410	.6424337	.7036516	.7583634	.8061185	.8468827
10	.2926740	.3599155	.4296726	.4997613	.5681355	.6330336	.6930740	.7472981
11	.1817356	.2359569	.2961386	.3606557	.4276447	.4951708	.5613845	.6246519
12	.1032403	.1419572	.1879325	.2405190	.2986385	.3608430	.4254971	.4908560
13	.0536684	.0783355	.1096704	.1479136	.1928915	.2440237	.3003454	.3605810
14	.0255517	.0396612	.0608367	.0838022	.1150529	.1527802	.1968233	.2466564
15	.0111546	.0184174	.0290257	.0437326	.0633248	.0884419	.1195178	.1567159
16	.0044706	.0078773	.0131756	.0210264	.0321569	.0473093	.0671777	.0923374
17	.0016470	.0030963	.0055073	.0093186	.0150688	.0233813	.0349324	.0504467
18	.0005584	.0011208	.0021215	.0038090	.0065184	.0106774	.0160821	.0254819
19	.0001744	.0003739	.0007537	.0014368	.0026040	.0045064	.0074754	.0119264
20	.0000508	.0001151	.0002471	.0005005	.0009611	.0017582	.0030766	.0051674
21	.0000133	.0000327	.0000748	.0001610	.0003278	.0006343	.0011714	.0020724
22	.0000033	.0000086	.0000209	.0000479	.0001033	.0002116	.0004126	.0007693
23	.0000007	.0000021	.0000054	.0000131	.0000301	.0000683	.0001344	.0002643
24	.0000003	.0000005	.0000013	.0000033	.0000081	.0000186	.0000405	.0000840
25		.0000001	.0000003	.0000008	.0000020	.0000049	.0000113	.0000247
26			.0000001	.0000002	.0000005	.0000012	.0000029	.0000067
27					.0000001	.0000003	.0000007	.0000017
28						.0000001	.0000002	.0000004
29								.0000001

k	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999990	.9999995	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
2	.9999829	.9999906	.9999948	.9999972	.9999985	.9999992	.9999996	.9999998
3	.9998567	.9999170	.9999524	.9999730	.9999849	.9999916	.9999954	.9999975
4	.9992118	.9995204	.9997116	.9998287	.9998994	.9999416	.9999665	.9999810
5	.9967932	.9979530	.9987099	.9991972	.9995067	.9997007	.9998207	.9998939
6	.9896988	.9931067	.9954494	.9970361	.9980952	.9987920	.9992441	.9995332
7	.9727511	.9809036	.9868069	.9910131	.9939634	.9960011	.9973874	.9983165
8	.9388557	.9551781	.9676276	.9769595	.9838377	.9888246	.9923825	.9948812
9	.8809310	.9088549	.9312723	.9489499	.9626413	.9730617	.9808586	.9865961
10	.7951663	.8365183	.8715101	.9005382	.9241628	.9430372	.9578479	.9692677
11	.6836461	.7373977	.7853053	.8271138	.8626682	.8988534	.9175291	.9374650
12	.5552289	.6170891	.6751606	.7284729	.7763607	.8185554	.8549526	.8857644
13	.4232446	.4867548	.5495505	.6101952	.6674593	.7203758	.7682675	.8107478
14	.3014130	.3599430	.4208960	.4828192	.5442590	.6038550	.6604185	.7139886
15	.1998866	.2485543	.3019347	.3589814	.4184558	.4790112	.5392838	.5979779
16	.1231778	.1598447	.2022027	.2490207	.3019845	.3577345	.4159854	.4752997

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

$n = 40$

x	.25	.26	.27	.28	.29	.30	.31	.32
17	.0704404	.0955602	.1261230	.1622647	.2038656	.2505345	.3016177	.3562297
18	.0373504	.0530446	.0731553	.0981715	.1284270	.1640538	.2049483	.2507559
19	.0183542	.0273182	.0394156	.0552448	.0753603	.1002228	.1301501	.1652739
20	.0083568	.0130460	.0197118	.0286863	.0411364	.0570389	.0770896	.1017579
21	.0035239	.0057750	.0091446	.0140231	.0208672	.0301070	.0425234	.0584175
22	.0013763	.0023687	.0039334	.0063163	.0096286	.0140788	.0210171	.0312236
23	.0004976	.0008999	.0015679	.0026379	.0043951	.0067813	.0104000	.0155180
24	.0001665	.0003165	.0005789	.0010209	.0017402	.0030726	.0046015	.0071631
25	.0000515	.0001030	.0001978	.0003659	.0006531	.0011279	.0018078	.0030676
26	.0000147	.0000310	.0000625	.0001213	.0002269	.0004100	.0007174	.0012174
27	.0000039	.0000086	.0000183	.0000372	.0000729	.0001379	.0002522	.0004471
28	.0000009	.0000022	.0000049	.0000105	.0000216	.0000428	.0000819	.0001518
29	.0000002	.0000005	.0000012	.0000027	.0000059	.0000123	.0000246	.0000476
30		.0000001	.0000003	.0000007	.0000015	.0000032	.0000068	.0000137
31			.0000001	.0000001	.0000003	.0000008	.0000017	.0000036
32					.0000001	.0000002	.0000004	.0000009
33							.0000001	.0000002

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999987	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
4	.9999894	.9999941	.9999968	.9999983	.9999991	.9999995	.9999998	.9999999
5	.9999301	.9999643	.9999797	.9999886	.9999937	.9999965	.9999981	.9999990
6	.9997155	.9998290	.9998985	.9999406	.9999657	.9999805	.9999891	.9999939
7	.9989301	.9993294	.9995855	.9997473	.9998481	.9999100	.9999475	.9999698
8	.9966089	.9977852	.9985739	.9990949	.9994337	.9996508	.9997879	.9999730
9	.9907496	.9937083	.9957825	.9972140	.9981864	.9988367	.9992649	.9995424
10	.9779232	.9843739	.9891023	.9925118	.9949306	.9966191	.9977790	.9985620
11	.9532851	.9656303	.9750737	.9821963	.9874733	.9913183	.9940738	.9960163
12	.9113636	.9332462	.9489786	.9621514	.9723414	.9800948	.9858905	.9901512
13	.8476991	.8792353	.9056541	.9273862	.9449455	.9588048	.9697586	.9780953
14	.7608641	.8036113	.8410518	.8732326	.9003363	.9228857	.9411971	.9550381
15	.6539403	.7062168	.7540872	.7970790	.8349621	.8677257	.8955457	.9187429
16	.5345687	.5924915	.6479457	.6999033	.7478682	.7910950	.8293885	.8626070
17	.4133040	.4716584	.5300675	.5873371	.6423706	.6942250	.7421504	.7856125
18	.3008761	.3544868	.4105891	.4680646	.5257421	.5824661	.6371619	.6888897
19	.2055081	.2505316	.2997908	.3525194	.4077765	.4644984	.5215598	.5778381
20	.1313413	.1659747	.2055898	.2498970	.2983849	.3503362	.4048606	.4609416
21	.0783729	.1028133	.1320406	.1661956	.2052284	.2488790	.2966746	.3479417
22	.0435877	.0594297	.0792360	.1034196	.1322804	.1659678	.2044505	.2474973
23	.0225608	.0330012	.0443405	.0600827	.0797011	.1036021	.1330860	.1653155
24	.0108535	.0160264	.0231000	.0325261	.0447933	.0603921	.0797871	.1033814
25	.0048469	.0074571	.0111862	.0163797	.0234377	.0328051	.0449562	.0603716
26	.0020068	.0032182	.0050277	.0076606	.0113972	.0165733	.0235781	.0328454
27	.0007693	.0012865	.0020941	.0033220	.0051417	.0077727	.0114873	.0166120
28	.0002727	.0004757	.0008071	.0013315	.0021482	.0033776	.0051884	.0077938
29	.0000892	.0001624	.0002873	.0004946	.0008296	.0013573	.0021681	.0033047
30	.0000269	.0000511	.0000943	.0001692	.0002956	.0005033	.0008364	.0013575
31	.0000075	.0000140	.0000305	.0000532	.0000969	.0001718	.0002972	.0005016
32	.0000019	.0000039	.0000079	.0000154	.0000292	.0000539	.0000970	.0001703
33	.0000004	.0000010	.0000020	.0000041	.0000080	.0000155	.0000290	.0000530
34	.0000001	.0000002	.0000005	.0000010	.0000020	.0000041	.0000079	.0000150
35			.0000001	.0000002	.0000005	.0000010	.0000020	.0000039
36					.0000001	.0000002	.0000004	.0000009
37							.0000001	.0000002

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999995	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999967	.9999982	.9999991	.9999995	.9999998	.9999999	.9999999	1.0000000
7	.9999829	.9999904	.9999947	.9999971	.9999985	.9999992	.9999996	.9999998
8	.9999251	.9999565	.9999751	.9999860	.9999923	.9999958	.9999977	.9999988
9	.9997195	.9998307	.9998994	.9999411	.9999661	.9999808	.9999893	.9999940
10	.9990844	.9994256	.9996453	.9997845	.9998718	.9999242	.9999562	.9999751
11	.9973631	.9982817	.9988979	.9993044	.9995681	.9997362	.9998416	.9999065
12	.9933311	.9954202	.9969502	.9980014	.9987115	.9991830	.9994906	.9996879
13	.9843776	.9890312	.9924196	.9948447	.9965506	.9977299	.9985309	.9990655
14	.9673401	.9762192	.9829549	.9879762	.9916544	.9943019	.9961741	.9974746
15	.9377410	.9530451	.9651049	.9744845	.9816396	.9870018	.9909491	.9938032
16	.8911183	.9149548	.9345823	.9504564	.9630667	.9729061	.9804466	.9861216
17	.8243957	.8580954	.8870917	.9115181	.9317249	.9481409	.9612373	.9714970
18	.7368666	.7805914	.8196540	.8539387	.8834552	.9084301	.9291721	.9460859
19	.6322756	.6839341	.7320375	.7760001	.8154388	.8501713	.8802004	.9056888
20	.5174987	.5734185	.6276745	.6793218	.7275708	.7718115	.8116303	.8460104
21	.4010344	.4573771	.5135159	.5691776	.6233273	.6750227	.7234595	.7680040
22	.2946708	.3453171	.3986898	.4537885	.5096071	.5650897	.6192072	.6710114
23	.2032763	.2457655	.2923795	.3425203	.3954170	.4501597	.5057456	.5611310
24	.1314607	.1642571	.2017197	.2436921	.2898025	.3394865	.3920049	.4464747
25	.0795100	.1027745	.1304776	.1628059	.1997901	.2412810	.2869377	.3342876
26	.0446394	.0600335	.0788833	.1017947	.1290894	.1609708	.1974919	.2315316
27	.0235263	.0326543	.0444523	.0593085	.0779180	.1004521	.1273243	.1587563
28	.0114382	.0164996	.0232880	.0322395	.0438037	.0584460	.0766232	.0987543
29	.0051684	.0077358	.0113135	.0162410	.0228699	.0316087	.0429022	.0572144
30	.0021541	.0033442	.0050836	.0075719	.0110578	.0158483	.0223790	.0307700
31	.0008274	.0013347	.0021071	.0030580	.0049369	.0073362	.0106963	.0153101
32	.0003021	.0004898	.0008033	.0012099	.0020291	.0031288	.0047323	.0070839
33	.0000945	.0001647	.0002808	.0004684	.0007651	.0012248	.0019226	.0029605
34	.0000279	.0000506	.0000897	.0001554	.0002637	.0004395	.0007145	.0011419
35	.0000075	.0000141	.0000260	.0000469	.0000888	.0001429	.0002419	.0004013

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 40

x	.41	.42	.43	.44	.45	.46	.47	.48
36	.0000018	.0000036	.0000069	.0000128	.0000235	.0000422	.0000748	.0001309
37	.0000004	.0000008	.0000016	.0000032	.0000060	.0000113	.0000205	.0000367
38	.0000001	.0000002	.0000003	.0000007	.0000014	.0000027	.0000051	.0000095
39			.0000001	.0000001	.0000003	.0000006	.0000011	.0000022
40					.0000001	.0000001	.0000002	.0000004
41								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	.9999999	.9999999
8	.9999994	.9999997
9	.9999969	.9999983
10	.9999861	.9999924
11	.9999458	.9999692
12	.9998181	.9998889
13	.9994159	.9996414
14	.9983617	.9989559
15	.9958297	.9973424
16	.9903185	.9933584
17	.9793885	.9853215
18	.9596267	.9702683
19	.9269271	.9442986
20	.8773209	.9032937
21	.8082127	.8438366
22	.7196810	.7645605
23	.6152618	.6679671
24	.5019121	.5578833
25	.3884404	.4487167
26	.2837795	.3327339
27	.1948255	.2354395
28	.1251869	.1551634
29	.0750062	.0967063
30	.0417559	.0557014
31	.0215233	.0297317
32	.0100560	.0146525
33	.0044747	.0066416
34	.0017910	.0027576
35	.0006534	.0010441
36	.0002162	.0003506
37	.0000645	.0001111
38	.0000172	.0000303
39	.0000041	.0000076
40	.0000009	.0000017
41	.0000003	.0000003
42		.0000001

$$I(x,n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 40

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.3809830	.6058963	.7751903	.8647023	.9190053	.9517758	.9714468	.9831866
2	.0864106	.2567566	.4344994	.5884695	.7101243	.8009470	.8661347	.9115575
3	.0130040	.0747876	.1816154	.3133367	.4468744	.5690901	.6758946	.7630664
4	.0014801	.0168948	.0520040	.1319160	.2487140	.3788332	.4815614	.5684120
5	.0001322	.0029366	.0125038	.0455154	.0970387	.1692276	.2573804	.3547575
6	.0000097	.0004289	.0033725	.0131144	.0346574	.0717946	.1250385	.1953757
7	.0000006	.0000536	.0006818	.0032141	.0105807	.0261877	.0532311	.0937410
8		.0000056	.0000985	.0006800	.0027992	.0083053	.0196600	.0394516
9		.0000005	.0000136	.0001257	.0006484	.0023128	.0063939	.0146474
10			.0000017	.0000205	.0001328	.0005703	.0018461	.0048494
11			.0000002	.0000030	.0000242	.0001254	.0004756	.0014345
12				.0000004	.0000040	.0000548	.0001101	.0003817
13					.0000006	.0000044	.0000330	.0000918
14					.0000001	.0000007	.0000044	.0000200
15						.0000001	.0000008	.0000040
16							.0000001	.0000007
17								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9901598	.9942736	.9966878	.9980961	.9989185	.9993828	.9996520	.9998052
2	.9434695	.9630964	.9766089	.9853744	.9909497	.9944596	.9966438	.9979866
3	.8292717	.8799573	.9171280	.9437297	.9628936	.9758246	.9839000	.9896733
4	.6538774	.7352337	.8019148	.8547948	.8955439	.9261681	.9486687	.9648654
5	.4543905	.5503091	.6381567	.7153000	.7806699	.8343297	.8771700	.9105241
6	.2760053	.3653045	.4559908	.5441020	.6261043	.6997758	.7636131	.8173677
7	.1480416	.2147052	.2908969	.3729361	.4569012	.5391456	.6166572	.6872444
8	.0690010	.1110606	.1655467	.2295401	.3015165	.3785153	.4573521	.5349914
9	.0291770	.0518679	.0948098	.1368816	.1796199	.2412385	.3097605	.3827383
10	.0108738	.0215013	.0504135	.0631089	.0966430	.1394233	.1911085	.2506846
11	.0036315	.0080050	.0257725	.0280338	.0470476	.0731289	.1073842	.1499665
12	.0010985	.0026882	.0120513	.0115063	.0207730	.0340660	.0549517	.0819896
13	.0002973	.0008178	.0052603	.0043440	.0083403	.0151413	.0266680	.0429076
14	.0000735	.0002260	.0021022	.0014855	.0030589	.0060023	.0109599	.0210795
15	.0000166	.0000569	.0008681	.0004378	.0010213	.0021767	.0042856	.0078728
16	.0000034	.0000131	.0000489	.0001207	.0003189	.0007235	.0015373	.0030314
17	.0000006	.0000028	.0000100	.0000316	.0000880	.0002209	.0005068	.0010749
18	.0000001	.0000005	.0000022	.0000075	.0000237	.0000680	.0001537	.0003507
19		.0000001	.0000004	.0000016	.0000054	.0000160	.0000430	.0001055
20			.0000001	.0000003	.0000012	.0000038	.0000111	.0000293
21				.0000001	.0000002	.0000008	.0000026	.0000075
22						.0000003	.0000006	.0000018
23						.0000001	.0000001	.0000004
24								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999017	.9999402	.9999672	.9999822	.9999904	.9999949	.9999973	.9999986
2	.9988043	.9993967	.9995903	.9997636	.9998649	.9999235	.9999571	.9999768
3	.9934389	.9959067	.9974605	.9984523	.9990645	.9994408	.9996694	.9998067
4	.9763066	.9862483	.9926710	.9963165	.9985311	.9993077	.9996931	.9998684
5	.9359056	.9540179	.9686370	.9785509	.9885410	.9936985	.9969865	.9989837
6	.8614316	.8966751	.9248318	.9453383	.9611622	.9738259	.9812661	.9872705
7	.7495710	.8030795	.8470477	.8844308	.9136309	.9354989	.9540352	.9692314
8	.6080307	.6768717	.7377845	.7998807	.8360376	.8735587	.9040641	.9289586
9	.4574935	.5314252	.6028437	.6681148	.7277396	.7857035	.8257035	.8639116
10	.3162840	.3859786	.4574066	.5289958	.5965939	.6606061	.7190743	.7711984
11	.2005951	.2582695	.3215100	.3884768	.4571478	.5355006	.5916731	.6540870
12	.1165845	.1588772	.2084917	.2645463	.3257251	.3903951	.4567518	.5289670
13	.0630956	.0897874	.1245418	.1664347	.2150971	.2697839	.3291303	.3918470
14	.0303315	.0466035	.0684955	.0966245	.1313990	.1728538	.2206334	.2739983
15	.0136021	.0228577	.0346098	.0517465	.0741877	.1035969	.1379981	.1783016
16	.0056069	.0097781	.0161871	.0255677	.0387022	.0563585	.0793159	.1077882
17	.0021270	.0038569	.0069643	.0116603	.0186573	.0286455	.0423488	.0604701
18	.0007432	.0014264	.0028	.0049109	.0083140	.0134732	.0209721	.0314639
19	.0002397	.0005184	.0011	.0019113	.0034260	.0058640	.0096305	.0151797
20	.0000713	.0001617	.0003434	.0006877	.0013061	.0023688	.0040883	.0067895
21	.0000196	.0000475	.0001075	.0002289	.0004608	.0008815	.0016096	.0028152
22	.0000050	.0000129	.0000313	.0000705	.0001505	.0003046	.0005971	.0010821
23	.0000012	.0000032	.0000084	.0000201	.0000455	.0000975	.0001984	.0003855
24	.0000003	.0000008	.0000021	.0000053	.0000127	.0000289	.0000623	.0001273
25	.0000001	.0000002	.0000005	.0000013	.0000033	.0000079	.0000180	.0000389
26			.0000001	.0000003	.0000006	.0000020	.0000048	.0000110
27				.0000001	.0000002	.0000005	.0000013	.0000029
28						.0000001	.0000003	.0000007
29							.0000001	.0000003

x	.25	26	27	.28	.29	.30	.31	.32
1	.9999	.9999	.9999	.9999999	.9999999	1.0000000	1.0000000	1.0000000
2	.9999869	.9999929	.9999962	.9999980	.9999989	.9999994	.9999997	.9999999
3	.9998882	.9999361	.9999639	.9999798	.9999888	.9999939	.9999967	.9999982
4	.9993730	.9996235	.9997766	.9998691	.9999343	.9999566	.9999755	.9999863
5	.9973978	.9983605	.9989804	.9993740	.9996206	.9997730	.9998659	.9999218
6	.9914734	.9943667	.9963397	.9976418	.9985045	.9990646	.9994238	.9996486
7	.9769880	.9860764	.9921404	.9956996	.9951614	.9968384	.9979650	.9987058
8	.9473295	.9711667	.9828060	.9906945	.9867741	.9909775	.9939340	.9959805
9	.8954271	.9306989	.9610882	.9567926	.9687883	.9777906	.9844310	.9892473
10	.8166184	.8551258	.8876459	.9140915	.9351216	.9520446	.9649819	.9748128
11	.7115361	.7631690	.8085806	.8476726	.8806436	.9079086	.9300279	.9476419
12	.5873333	.6481693	.7048997	.7760024	.8014691	.8408448	.8743513	.9023086
13	.4562407	.5206417	.5834653	.6431130	.6990465	.7498297	.7951599	.8347931
14	.3318709	.3991140	.4656327	.5314947	.5929471	.6538112	.6935217	.7442716
15	.2252603	.2975153	.3740542	.4436560	.5149387	.5164444	.5768354	.6347813
16	.1423550	.1979092	.2691904	.3504467	.4357611	.3941175	.4541665	.5145567

$$B(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad r = 43$$

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
17	.00636848	.01227742	.01466645	.01867004	.02332000	.02866045	.03470531	.04143321
18	.00456329	.00849057	.01074565	.01411176	.01830048	.02329880	.02949150	.03715075
19	.00321033	.00600070	.00805253	.01062643	.01377497	.01757781	.02213375	.02762888
20	.00100557	.00417568	.00590318	.00826667	.01070614	.01369871	.01733104	.02180830
21	.00047300	.00266654	.00419977	.00618648	.00867453	.01182396	.01525396	.01928865
22	.00019131	.00185443	.00293404	.00454741	.00702890	.01019508	.01303360	.01673857
23	.00007172	.00128188	.00200666	.00326728	.00564998	.00878015	.01139393	.01455436
24	.00002493	.00086482	.00134459	.00230411	.00449463	.00750469	.00963900	.01238367
25	.00000803	.00056485	.00089007	.00159493	.00355684	.00640514	.00837890	.01043781
26	.00000239	.00000497	.00000991	.00001898	.00035505	.00006254	.00010808	.00018094
27	.00000066	.00000144	.00000303	.00000607	.00001175	.00002195	.00003964	.00006936
28	.00000017	.00000039	.00000085	.00000180	.00000365	.00000713	.00001347	.00002463
29	.00000004	.00000010	.00000022	.00000049	.00000105	.00000214	.00000423	.00000809
30	.00000001	.00000008	.00000005	.00000018	.00000030	.00000059	.00000133	.00000245
31			.00000001	.00000003	.00000007	.00000015	.00000031	.00000069
32				.00000001	.00000002	.00000004	.00000008	.00000018
33						.00000001	.00000002	.00000004
34								.00000001

n \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999981	.99999995	.99999997	.99999999	.99999999	1.00000000	1.00000000	1.00000000
4	.99999985	.99999990	.99999993	.99999994	.99999995	.99999997	.99999998	.99999999
5	.99999550	.99997744	.99998857	.99999421	.99999707	.99999853	.99999928	.99999964
6	.99979000	.99988750	.99993869	.99996579	.99998241	.99999066	.99999586	.99999840
7	.99911893	.99954993	.99976950	.99989160	.99995016	.99997838	.99999237	.99999704
8	.99773749	.99883102	.99939800	.99971290	.99985071	.99992493	.99996501	.99998417
9	.99536031	.99750944	.99867595	.99936911	.99966479	.99981461	.99992609	.99996747
10	.99081559	.99475476	.99714404	.99420046	.99613153	.99774618	.99883585	.99945547
11	.98314157	.97719965	.97990017	.98850099	.99083325	.99313386	.99556188	.99770549
12	.96851977	.96359314	.95811119	.96936776	.97794115	.98435597	.98908880	.99249798
13	.94607084	.93972590	.93200177	.93990017	.95580897	.96694446	.97605000	.98389176
14	.78895196	.88293235	.86366826	.89277279	.91607732	.93655653	.95383361	.96474110
15	.68892251	.73193309	.78452340	.83244943	.86591690	.89866868	.91334997	.93358810
16	.57339613	.63115481	.68850952	.73403378	.78000909	.83021147	.86518890	.89851098
17	.45333214	.51897416	.57133949	.62278897	.68140447	.73103567	.77617333	.81644324
18	.33709773	.39433851	.45824066	.51115923	.58009946	.63049345	.67801074	.72957787
19	.23697795	.28530764	.33855702	.39411457	.45142838	.52933698	.57666447	.62225588
20	.15588163	.19472410	.23856603	.28604111	.33888598	.39371776	.45033733	.53077009
21	.09585535	.12438688	.15778088	.19632081	.23896963	.28742327	.33086671	.39314116
22	.05506688	.07478801	.09777176	.12601190	.15927218	.19747441	.24041179	.28767550
23	.02994997	.04133269	.05655540	.07586820	.09915554	.13073010	.16033087	.19811802
24	.01471169	.02145982	.03053342	.04244465	.05770005	.07601119	.10011840	.13811551
25	.00668290	.01037714	.01533560	.02331924	.03313393	.04330888	.05885402	.08775756
26	.00289440	.00466505	.00718031	.01070995	.01501582	.02074414	.02819155	.04230559
27	.00111777	.00194433	.00312209	.00448032	.00674563	.00111169	.01620026	.02331053
28	.00040366	.00077514	.00130576	.00220494	.00330850	.00504477	.00876449	.01313011
29	.00014498	.00030689	.00054692	.00107966	.00159175	.00231250	.00353460	.00514083
30	.00004475	.00010809	.00021618	.00049938	.00074978	.00108270	.00161558	.00231684
31	.00001139	.00003271	.00007515	.00019950	.00031704	.00047978	.00075075	.00098440
32	.00000237	.00000776	.00002151	.00006290	.00011442	.00018907	.00031750	.00043028
33	.00000039	.00000220	.00000641	.00001901	.00003859	.00006301	.00010565	.00016999
34	.00000002	.00000065	.00000210	.00000621	.00001359	.00002284	.00003761	.00006103
35		.00000001	.00000072	.00000205	.00000510	.00000844	.00001361	.00002183
36				.00000061	.00000183	.00000305	.00000510	.00000831
37					.00000061	.00000107	.00000183	.00000305
38								.00000101

n \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	.99999997	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	.99999978	.99999989	.99999994	.99999997	.99999998	.99999999	1.00000000	1.00000000
7	.99999885	.99999937	.99999966	.99999982	.99999991	.99999995	.99999998	.99999999
8	.99994881	.99997708	.99999036	.99999605	.99999851	.99999974	.99999886	.99999963
9	.99980038	.99990835	.99995310	.99997609	.99998779	.99999477	.99999833	.99999664
10	.99933448	.99965957	.99987546	.99994534	.99997139	.99998503	.99999718	.99999043
11	.99806488	.99887622	.99942193	.99975146	.99989045	.99996027	.99998955	.99999395
12	.99492252	.99666231	.99817677	.99917547	.99969970	.99994375	.99998506	.99999128
13	.98800075	.99217146	.99543677	.99762336	.99895983	.99985993	.99996400	.99998648
14	.97433755	.98116003	.98470347	.99003983	.99638577	.99958788	.99988218	.99997320
15	.94988766	.96287666	.97287804	.98042088	.99061463	.99893899	.99934049	.99986554
16	.91023336	.92309443	.94477070	.96103088	.97142845	.97939901	.98538828	.99380000
17	.85169899	.88019763	.90751127	.92866510	.94588287	.95953299	.97028657	.97855168
18	.77727243	.81314131	.84866522	.87936800	.90511766	.92669970	.94434232	.95820332
19	.67551661	.72455302	.76971286	.81028847	.84604462	.87697703	.90322171	.92507294
20	.56455537	.61981350	.67255506	.72184603	.76711114	.80778570	.84305603	.87507900
21	.44925543	.50611144	.56226041	.61764111	.67083368	.71954456	.76448997	.80583111
22	.33860779	.39233939	.44880650	.50455597	.56078113	.61565509	.66820857	.71756779
23	.24074880	.28775856	.33809929	.39147783	.44668026	.51308875	.55907556	.61387740
24	.16091669	.19844906	.24070734	.28717655	.33733290	.39039662	.44546630	.50155101
25	.10004180	.12855972	.16111117	.19833959	.24003957	.28648555	.33631935	.39911460
26	.05905544	.07797447	.10106888	.13863396	.16090047	.19779135	.23955314	.28542257
27	.03328646	.04411536	.05928576	.07840473	.10094451	.12822907	.16033033	.19704884
28	.01640061	.02320046	.03233807	.04418851	.05915551	.07776888	.10045837	.13755550
29	.00774723	.01141088	.01646636	.02338004	.03229001	.04395538	.05875510	.07715135
30	.00339000	.00518455	.00775335	.01138631	.01637312	.02290940	.03119719	.04306933
31	.00137714	.00217747	.00334870	.00515611	.00769113	.01134490	.01614003	.02237308
32	.00053116	.00088446	.00137639	.00211558	.00323576	.00504642	.00753954	.01100013
33	.00019758	.00033012	.00053085	.00082598	.00129339	.00201007	.00300431	.00439110

$$B(n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x} \qquad n = 49$$

x	.41	.42	.43	.44	.45	.46	.47	.48
34	.0000553	.0000285	.0001710	.0002931	.0004894	.0008008	.0012883	.0020149
35	.0000159	.0000894	.0000534	.0000947	.0001642	.0002789	.0004640	.0007568
36	.0000041	.0000240	.0000151	.0000278	.0000508	.0000885	.0001530	.0002591
37	.0000010	.0000020	.0000039	.0000074	.0000139	.0000250	.0000458	.0000840
38	.0000002	.0000004	.0000009	.0000018	.0000038	.0000069	.0000133	.0000252
39		.0000001	.0000002	.0000004	.0000008	.0000015	.0000030	.0000057
40				.0000001	.0000002	.0000003	.0000006	.0000013
41						.0000001	.0000001	.0000002

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	.9999999	1.0000000
8	.9999996	.9999998
9	.9999981	.9999990
10	.9999914	.9999954
11	.9999656	.9999808
12	.9998776	.9999290
13	.9996100	.9997611
14	.9988783	.9992987
15	.9970704	.9981098
16	.9930175	.9953004
17	.9847438	.9883599
18	.9693100	.9770079
19	.9409499	.9573614
20	.9016280	.9279961
21	.8420757	.8735651
22	.7630619	.8041985
23	.6664486	.7159138
24	.5574679	.6180752
25	.4440416	.5000000
26	.3360633	.3819248
27	.2384130	.2840862
28	.1593099	.1958015
29	.0994048	.1264349
30	.0580466	.0768039
31	.0314373	.0427166
32	.0157607	.0221931
33	.0072977	.0106471
34	.0031060	.0046986
35	.0011808	.0019008
36	.0004304	.0007013
37	.0001380	.0002349
38	.0000403	.0000710
39	.0000105	.0000192
40	.0000024	.0000046
41	.0000005	.0000010
42	.0000001	.0000002

$$P_{n,x} = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 11$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.3949939	.6135303	.7819346	.8701148	.9308550	.9546693	.9734442	.9845335
2	.0904351	.2148286	.3744261	.5005188	.6178888	.7050688	.7835065	.8521860
3	.0138173	.0384877	.0859017	.1383860	.1978660	.2597669	.3225535	.3840057
4	.0015668	.0047581	.0107599	.0191300	.0295980	.0425266	.0579647	.0757043
5	.0001457	.0010097	.0020106	.0048715	.0081168	.0124040	.0179731	.0249499
6	.0000109	.0001782	.0003364	.0006104	.0011762	.0020406	.0033464	.0052863
7	.0000007	.0000201	.0000537	.0001101	.0002664	.0005841	.0011156	.0020716
8		.0000015	.0000065	.0000148	.0000414	.0001203	.0003099	.0007448
9		.0000001	.0000006	.0000019	.0000057	.0000204	.0000706	.0002236
10			.0000000	.0000002	.0000007	.0000029	.0000106	.0000346
11			.0000000	.0000000	.0000000	.0000002	.0000010	.0000048
12				.0000000	.0000000	.0000000	.0000001	.0000004
13				.0000000	.0000000	.0000000	.0000000	.0000000

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9910449	.9948469	.9970588	.9983845	.9990816	.9994692	.9997048	.9998363
2	.9467415	.9662141	.9788353	.9869010	.9919548	.9951488	.9970948	.9983774
3	.8994595	.9308718	.9536731	.9748350	.9641059	.9777175	.9850115	.9910034
4	.8506689	.8947061	.9245883	.9564664	.9048343	.9330360	.9536534	.9688344
5	.8013443	.8488016	.8861701	.9180469	.9956016	.8471891	.8870948	.9198167
6	.7530061	.8038770	.8476036	.8866643	.9466574	.7186134	.8306467	.8388787
7	.7069111	.7609738	.8109581	.8534784	.8709040	.5616338	.6387006	.7080648
8	.6640446	.7209451	.7793159	.8267476	.8017165	.4010036	.4411479	.5593548
9	.6248183	.6837678	.7531569	.8058006	.7356664	.2604521	.3310393	.4070988
10	.5895198	.6495170	.7324511	.7907616	.6774300	.1536766	.2089063	.2717628
11	.5584938	.6181646	.7168631	.7812900	.6534950	.0834101	.1199173	.1660718
12	.5316210	.5895199	.7060426	.7768543	.6441087	.0402028	.0648181	.0998659
13	.5088609	.5630046	.6993953	.7765155	.6399866	.0179028	.0300605	.0475479
14	.4900936	.5388851	.6967585	.7801637	.6397402	.0078810	.0131661	.0883160
15	.4750217	.5170738	.6980159	.7875550	.6418854	.0037183	.0058867	.0096148
16	.4636046	.4975175	.7030567	.7986085	.6464050	.0019496	.0030076	.0046076
17	.4556009	.4800938	.7118137	.8134205	.6534178	.0010918	.0016614	.0025861
18	.4508030	.4647030	.7242030	.8320104	.6630310	.0006842	.0010067	.0015666
19	.4490936	.4512001	.7401006	.8544083	.6753077	.0004885	.0007596	.0011447
20	.4502317	.4394738	.7593159	.8806005	.6903017	.0004055	.0006159	.0009415
21	.4540646	.4294175	.7816631	.9106005	.7080554	.0004050	.0006270	.0009876
22	.4603209	.4209199	.8069426	.9445255	.7286178	.0004518	.0006614	.0010361
23	.4688609	.4138046	.8349953	.9824953	.7519310	.0005342	.0007467	.0011666
24	.4795936	.4079851	.8656585	.0247176	.7780077	.0006485	.0008596	.0013447
25	.4925217	.4033738	.8988159	.0713550	.8068055	.0008017	.0010159	.0015915
26	.5076446	.3998175	.9342567	.1224900	.8383950	.0009970	.0012196	.0018924
27	.5250009	.3972038	.9718137	.1782405	.8728178	.0012418	.0014796	.0022662
28	.5446530	.3954137	.0113704	.2387104	.9101668	.0015418	.0017996	.0027178
29	.5666771	.3943301	.0526104	.3039904	.9505310	.0019030	.0021859	.0032566
30	.5911533	.3938406	.0953184	.3741555	.9939254	.0023316	.0026446	.0038923
31	.6181662	.3938366	.1392800	.4492555	.0404800	.0028337	.0031819	.0046346
32	.6478049	.3942154	.1842866	.5292966	.0902284	.0034161	.0038042	.0054934
33	.6802636	.3948800	.2301400	.6142322	.1432000	.0040858	.0045184	.0064787
34	.7157412	.3957400	.2766553	.7039722	.1993200	.0048502	.0053317	.0076010
35	.7544419	.3967126	.3236615	.7983931	.2584999	.0057172	.0062516	.0088713
36	.7965750	.3977230	.3709126	.8972377	.3205400	.0066952	.0072861	.0103011
37	.8423553	.3987049	.4181900	.0001150	.3852284	.0077931	.0084439	.0119029
38	.8920030	.3996016	.4653054	.1069000	.4523400	.0090201	.0097343	.0136900
39	.9457440	.4003665	.5120200	.2174000	.5216400	.0103864	.0111672	.0156766
40	.0038100	.4009641	.5581500	.3312000	.5928000	.0119027	.0127534	.0178776
41	.0662000	.4013700	.6034700	.4478000	.6655000	.0135804	.0145040	.0203088
42	.1330000	.4015700	.6477800	.5667000	.7393000	.0154318	.0164309	.0229870
43	.2045000	.4015600	.6908900	.6873000	.8137000	.0174700	.0185466	.0259296
44	.2810000	.4013400	.7325000	.8089000	.8882000	.0197090	.0208641	.0291546
45	.3628000	.4009200	.7723200	.9307000	.9622000	.0221635	.0233969	.0326809
46	.4500000	.4003000	.8100000	.0518000	.0351000	.0248490	.0261592	.0365284
47	.5428000	.3995000	.8451000	.1714000	.1062000	.0277817	.0291660	.0407181
48	.6413000	.3985000	.8772000	.2885000	.1746000	.0309790	.0324332	.0452722
49	.7455000	.3973000	.9057000	.4021000	.2395000	.0344595	.0359781	.0502140
50	.8552000	.3960000	.9302000	.5112000	.3000000	.0382430	.0398184	.0555681
51	.9700000	.3945000	.9500000	.6147000	.3550000	.0423510	.0439731	.0613605
52	.0883000	.3929000	.9646000	.7112000	.4033000	.0468071	.0484624	.0676191
53	.2080000	.3912000	.9733000	.7993000	.4435000	.0516369	.0533081	.0743737
54	.3272000	.3894000	.9753000	.8772000	.4739000	.0568687	.0585337	.0816564
55	.4433000	.3875000	.9696000	.9429000	.4926000	.0625327	.0641645	.0895013
56	.5528000	.3855000	.9552000	.9931000	.4973000	.0686615	.0702279	.0979450
57	.6514000	.3834000	.9309000	.0234000	.4850000	.0752900	.0767538	.1070267
58	.7337000	.3812000	.8954000	.0284000	.4520000	.0824564	.0837750	.1167886
59	.7931000	.3789000	.8472000	.0016000	.3939000	.0902027	.0913276	.1272766
60	.8218000	.3765000	.7844000	.9350000	.3060000	.0985750	.0994519	.1385402
61	.8100000	.3740000	.7045000	.8161000	.1824000	.1076240	.1081923	.1506333
62	.7453000	.3714000	.6044000	.6209000	.0161000	.1174040	.1176555	.1636146
63	.6135000	.3687000	.4800000	.3209000	.7971000	.1279750	.1279178	.1775480
64	.4000000	.3660000	.3263000	.8209000	.4971000	.1394000	.1389178	.1925020
65	.1000000	.3632000	.1374000	.1000000	.0000000	.1518500	.1507178	.2085510
66		.3604000	.9000000	.0000000	.0000000	.1654000	.1633178	.2257750
67		.3576000	.4000000	.0000000	.0000000	.1801500	.1768178	.2443600
68		.3548000	.0000000	.0000000	.0000000	.1962000	.1914178	.2644000
69		.3520000	.0000000	.0000000	.0000000	.2136500	.2072178	.2860000
70		.3492000	.0000000	.0000000	.0000000	.2326000	.2242178	.3093000
71		.3464000	.0000000	.0000000	.0000000	.2532000	.2424178	.3344000
72		.3436000	.0000000	.0000000	.0000000	.2756000	.2619178	.3614000
73		.3408000	.0000000	.0000000	.0000000	.3000000	.2829178	.3904000
74		.3380000	.0000000	.0000000	.0000000	.3264000	.3054178	.4216000
75		.3352000	.0000000	.0000000	.0000000	.3550000	.3296178	.4552000
76		.3324000	.0000000	.0000000	.0000000	.3860000	.3556178	.4914000
77		.3296000	.0000000	.0000000	.0000000	.4196000	.3836178	.5304000
78		.3268000	.0000000	.0000000	.0000000	.4560000	.4136178	.5724000
79		.3240000	.0000000	.0000000	.0000000	.4954000	.4456178	.6176000
80		.3212000	.0000000	.0000000	.0000000	.5380000	.4796178	.6662000
81		.3184000	.0000000	.0000000	.0000000	.5840000	.5156178	.7184000
82		.3156000	.0000000	.0000000	.0000000	.6336000	.5536178	.7744000
83		.3128000	.0000000	.0000000	.0000000	.6870000	.5936178	.8344000
84		.3100000	.0000000	.0000000	.0000000	.7444000	.6356178	.8986000
85		.3072000	.0000000	.0000000	.0000000	.8060000	.6796178	.9672000
86		.3044000	.0000000	.0000000	.0000000	.8720000	.7256178	.0404000
87		.3016000	.0000000	.0000000	.0000000	.9426000	.7736178	.1184000
88		.2988000	.0000000	.0000000	.0000000	.0180000	.8236178	.2014000
89		.2960000	.0000000	.0000000	.0000000	.0980000	.8756178	.2896000
90		.2932000	.0000000	.0000000	.0000000	.1830000	.9296178	.3834000
91		.2904000	.0000000	.0000000	.0000000	.2730000	.9856178	.4830000
92		.2876000	.0000000	.0000000	.0000000	.3680000	.0436178	.5886000
93		.2848000	.0000000	.0000000	.0000000	.4680000	.1036178	.7004000
94		.2820000	.0000000	.0000000	.0000000	.5730000	.1656178	.8186000
95		.2792000	.0000000	.0000000	.0000000	.6830000	.2296178	.9434000
96		.2764000	.0000000	.0000000	.0000000	.7980000	.2956178	.0750000
97		.2736000	.0000000	.0000000	.0000000	.9180000	.3636178	.2134000
98		.2708000	.0000000	.0000000	.0000000	.0430000	.4336178	.3586000
99		.2680000	.0000000	.0000000	.0000000	.1730000	.5056178	.5110000
100		.2652000	.0000000	.0000000	.0000000	.3080000	.5796178	.6710000

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999101	.9999509	.9999734	.9999857	.9999924	.9999960	.9999979	.9999989
2	.9984091	.9994126	.9996619	.9998073	.9998913	.9999393	.9999664	.9999814
3	.9943676	.9975169	.9987716	.9993146	.9995336	.9997470	.9998356	.9998774
4	.9879885	.9961468	.9911525	.9943436	.9964311	.9977770	.9986328	.9991696
5	.9788718	.9901154	.9736334	.9815040	.9876009	.9919111	.9947623	.9966544
6	.9674932	.9821400	.9386688	.9519720	.9666018	.9766898	.9851256	.9899343
7	.9538573	.9699265	.9003607	.9066018	.9336188	.9444908	.9609968	.9780408
8	.9377565	.9555891	.8586965	.8495902	.8823339	.8874055	.9155570	.9376881
9	.9193200	.9376055	.8137965	.7826684	.7504881	.8008627	.8437864	.8793789
10	.8987094	.9131590	.7659256	.7026596	.6241345	.6969917	.7435994	.7934496
11	.8759693	.8913571	.7153304	.6164406	.4864315	.5552038	.6209754	.6821937
12	.8513663	.8676770	.6622651	.5193324	.3533839	.4201103	.4877830	.5544358
13	.8251567	.8422016	.6069933	.4260570	.2383290	.2962716	.3584831	.4323158
14	.7975714	.8151923	.5498443	.3385865	.1489756	.1941652	.2455877	.3228800
15	.7688461	.7869434	.4911129	.2607221	.0868091	.1180530	.1564652	.2315688
16	.7392661	.7577026	.4311034	.1961541	.0465308	.0665308	.0935748	.1647114
17	.7090786	.7277166	.3701663	.1444457	.0238667	.0347283	.0550388	.1210864
18	.6784707	.6972309	.3086107	.1062600	.0116104	.0166104	.0320887	.0880854
19	.6476253	.6664826	.2467463	.0785118	.0044585	.0075378	.0182314	.0630079
20	.6167000	.6356241	.1849707	.0599324	.0013513	.0031331	.0093607	.0448092
21	.5858284	.6048681	.1236533	.0463307	.0006383	.0012074	.0031797	.0317690
22	.5551075	.5743375	.0631315	.0363156	.0002315	.0004315	.0010233	.0221980
23	.5246189	.5441191	.0036675	.0287675	.0000838	.0001430	.0003878	.0153527
24	.4945000	.5143196	.9453440	.0229196	.0000296	.0000440	.0001335	.0104898
25	.4648284	.4850483	.8885125	.0182053	.0000093	.0000125	.0000388	.0070601
26	.4356993	.4564106	.8333179	.0142733	.0000027	.0000033	.0000109	.0046177
27	.4072128	.4285000	.7799000	.0108000	.0000007	.0000008	.0000029	.0029048
28	.3794600	.4013000	.7284000	.0076000	.0000001	.0000002	.0000007	.0017913
29	.3525000	.3749000	.6790000	.0045000	.0000000	.0000000	.0000001	.0010713
30	.3264000	.3494000	.6317000	.0015000	.0000000	.0000000	.0000000	.0006201
31	.3012000	.3248000	.5867000	.9986000	.0000000	.0000000	.0000000	.0003501
32	.2769000	.3012000	.5440000	.9958000	.0000000	.0000000	.0000000	.0001934
33	.2536000	.2786000	.5036000	.9931000	.0000000	.0000000	.0000000	.0001044
34	.2313000	.2570000	.4656000	.9905000	.0000000	.0000000	.0000000	.0000553
35	.2101000	.2365000	.4300000	.9880000	.0000000	.0000000	.0000000	.0000287
36	.1900000	.2171000	.3968000	.9856000	.0000000	.0000000	.0000000	.0000145
37	.1710000	.1988000	.3660000	.9833000	.0000000	.0000000	.0000000	.0000072
38	.1532000	.1816000	.3376000	.9811000	.0000000	.0000000	.0000000	.0000035
39	.1365000	.1655000	.3116000	.9790000	.0000000	.0000000	.0000000	.0000017
40	.1210000	.1505000	.2880000	.9770000	.0000000	.0000000	.0000000	.0000008
41	.1066000	.1365000	.2667000	.9751000	.0000000	.0000000	.0000000	.0000004
42	.0933000	.1236000	.2477000	.9733000	.0000000	.0000000	.0000000	.0000002
43	.0811000	.1117000	.2310000	.9716000	.0000000	.0000000	.0000000	.0000001
44	.0700000	.1008000	.2165000	.9700000	.0000000	.0000000	.0000000	.0000000
45	.0599000	.0908000	.2042000	.9685000	.0000000	.0000000	.0000000	.0000000
46	.0508000	.0817000	.1940000	.9671000	.0000000	.0000000	.0000000	.0000000
47	.0426000	.0734000	.1858000	.9658000	.0000000	.0000000	.0000000	.0000000
48	.0353000	.0659000	.1795000	.9646000	.0000000	.0000000	.0000000	.0000000
49	.0288000	.0592000	.1750000	.9635000	.0000000	.0000000	.0000000	.0000000
50	.0230000	.0532000	.1722000	.9625000	.0000000	.0000000	.0000000	.0000000
51	.0179000	.0479000	.1710000	.9616000	.0000000	.0000000	.0000000	.0000000
52	.0134000	.0431000	.1713000	.9608000	.0000000	.0000000	.0000000	.0000000
53	.0094000	.0388000	.1730000	.9601000	.0000000	.0000000	.0000000	.0000000
54	.0059000	.0350000	.1760000	.9595000	.0000000	.0000000	.0000000	.0000000
55	.0028000	.0316000	.1802000	.9590000	.0000000	.0000000	.0000000	.0000000
56	.0000000	.0286000	.1855000	.9586000	.0000000	.0000000	.0000000	.0000000
57	.9974000	.0259000	.1919000	.9583000	.0000000	.0000000	.0000000	.0000000
58	.9950000	.0235000	.1993000	.9581000	.0000000	.0000000	.0000000	.0000000
59	.9928000	.0213000	.2076000	.9580000	.0000000	.0000000	.0000000	.0000000
60	.9908000	.0193000	.2167000	.9580000	.0000000	.0000000	.0000000	.0000000
61	.9890000	.0175000	.2266000	.9581000	.0000000	.0000000	.0000000	.0000000
62	.9874000	.0159000	.2372000	.9583000	.0000000	.0000000	.0000000	.0000000
63	.9860000	.0145000	.2484000	.9586000	.0000000	.0000000	.0000000	.0000000
64	.9848000	.0133000	.2601000	.9590000	.0000000	.0000000	.0000000	.0000000
65	.9838000	.0123000	.2722000	.9595000	.0000000	.0000000	.0000000	.0000000
66	.9830000	.0115000	.2847000	.9601000	.0000000	.0000000	.0000000	.0000000
67	.9824000	.0109000	.2975000	.9608000	.0000000	.0000000	.0000000	.0000000
68	.9820000	.0105000	.3106000	.9616000	.0000000	.0000000	.0000000	.0000000
69	.9818000	.0103000	.3239000	.9625000	.0000000	.0000000	.0000000	.0000000
70	.9818000	.0103000	.3374000	.9635000	.0000000	.0000000	.0000000	.0000000
71	.9820000	.0105000	.3510000	.9646000	.0000000	.0000000	.0000000	.0000000
72	.9824000	.0109000	.3647000	.9658000	.0000000	.0000000	.0000000	.0000000
73	.9830000	.0115000	.3784000	.9671000	.0000000	.0000000	.0000000	.0000000
74	.9838000	.0123000	.3921000	.9685000	.0000000	.0000000	.0000000	.0000000
75	.9848000	.0133000	.4057000	.9700000	.0000000	.0000000	.0000000	.0000000
76	.9860000	.0145000	.4192000	.9716000	.0000000	.0000000	.0000000	.0000000
77	.9874000	.0159000	.4325000	.9733000	.0000000	.0000000	.0000000	.0000000
78	.9890000	.0175000	.4456000	.9751000	.0000000	.0000000	.0000000	.0000000
79	.9908000	.0193000	.4584000	.9770000	.0000000	.0000000	.0000000	.0000000
80	.9928000	.0213000	.4709000	.9790000	.0000000	.0000000	.0000000	.0000000
81	.9950000	.0235000	.4830000	.9811000	.0000000	.0000000	.0000000	.0000000
82	.9974000	.0259000	.4947000	.9833000	.0000000	.0000000	.0000000	.0000000
83	.0000000	.0286000	.5059000	.9856000	.0000000	.0000000	.0000000	.0000000
84	.0028000	.0316000	.5166000	.9880000	.0000000	.0000000	.0000000	.0000000
85	.0059000	.0350000	.5267000	.9905000	.0000000	.0000000	.0000000	.0000000
86	.0094000	.0388000	.5362000	.9931000	.0000000	.0000000	.0000000	.0000000
87	.0134000	.0431000	.5450000	.9958000	.0000000	.0000000	.0000000	.0000000
88	.0179000	.0479000	.5531000	.9986000	.0000000	.0000000	.0000000	.0000000
89	.0230000	.0532000	.5604000	.0015000	.0000000	.0000000	.0000000	.0000000
90	.0288000	.0592000	.5669000	.0045000	.0000000	.0000000	.0000000	.0000000
91	.0353000	.0659000	.5726000	.0076000	.0000000	.0000000	.0000000	.0000000
92	.0426000	.0734000	.5775000	.0108000	.0000000	.0000000	.0000000	.0000000
93	.0508000	.0817000	.5816000	.0142733	.0000000	.0000000	.0000000	.0000000
94	.0599000	.0908000	.5850000	.0182053	.0000000	.0000000	.0000000	.0000000
95	.0700000	.1008000	.5877000	.0229196	.0000000	.0000000	.0000000	.0000000
96	.0811000	.1117000	.5897000	.0287675	.0000000	.0000000	.0000000	.0000000
97	.0933000	.1236000	.5911000	.0363156	.0000000	.0000000	.0000000	.0000000
98	.1066000	.1365000	.5919000	.0463307	.0000000	.0000000	.0000000	.0000000
99	.1210000	.1505000	.5922000	.0599324	.0000000	.0000000	.0000000	.0000000
100	.1365000	.1655000	.5919000	.0785118	.0000000	.0000000	.0000000	.0000000

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999966	.9999986	.9999995	.9999998	.9999999	.9999999	.9999999	.9999999
3	.9999189	.9999509	.9999726	.9999849	.9999917	.9999956	.9999976	.9999988
4	.9995018	.9997048	.9998272	.9999001	.9999439	.9999678	.9999821	.9999901
5	.9978916	.9988889	.9991954	.9995126	.9997086	.9998281	.9998999	.9999435
6	.9929538	.9954051	.9970454	.9981364	.9988882	.9993771	.9995802	.9997360
7	.9866091	.9867519	.9910815	.9940832	.9964111	.9975663	.9984155	.9990075
8	.9547442	.9676412	.9772163	.9842000	.9898065	.9927338	.9951030	.9966852
9	.9084037	.9315505	.9496520	.9635411	.9740049	.9817467	.9873770	.9914019
10	.8363161	.8723744	.9020753	.9250492	.9450269	.9597601	.9710106	.9794318
11	.7377977	.7871298	.8299282	.8662705	.8965002	.9211494	.9408634	.9563366
12	.6183614	.6782172	.7326935	.7817348	.8244247	.8609639	.8916110	.9168159
13	.4890138	.5538509	.6168525	.6744918	.7307470	.7771349	.8196954	.8563709
14	.3629633	.4361232	.4901475	.5514365	.6145143	.6731160	.7252510	.7732257
15	.2519189	.3075190	.3466804	.4286080	.4913027	.5531664	.6131106	.6698183
16	.1630833	.2075068	.2574598	.3121014	.3703236	.4306216	.4921939	.5530366

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 50$$

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
17	.0983073	.1306393	.1689303	.2139899	.2623180	.3161214	.3733582	.4328040
18	.0551234	.0766243	.1034427	.1359032	.1740888	.2178069	.2665783	.3196514
19	.0287332	.0418309	.0590367	.0809432	.1080205	.1405599	.1786268	.2270296
20	.0139176	.0212419	.0313750	.0449460	.0625710	.0848026	.1120761	.1446575
21	.0062629	.0100292	.0155165	.0232477	.0337969	.0477638	.0657318	.0882214
22	.0026178	.0044012	.0071379	.0111931	.0170073	.0250870	.0359869	.0502811
23	.0010162	.0017947	.0030527	.0050136	.0079675	.0122761	.0183713	.0267460
24	.0003662	.0006797	.0012133	.0020880	.0034725	.0055922	.0087365	.0132630
25	.0001225	.0002390	.0004479	.0008081	.0014071	.0023695	.0038667	.0061249
26	.0000380	.0000780	.0001535	.0002904	.0005297	.0009332	.0015914	.0026314
27	.0000109	.0000236	.0000488	.0000969	.0001851	.0003413	.0006084	.0010507
28	.0000029	.0000066	.0000144	.0000300	.0000600	.0001158	.0002159	.0003994
29	.0000007	.0000017	.0000039	.0000086	.0000180	.0000364	.0000710	.0001338
30	.0000002	.0000004	.0000010	.0000023	.0000050	.0000106	.0000216	.0000426
31		.0000001	.0000002	.0000006	.0000013	.0000028	.0000061	.0000125
32				.0000001	.0000003	.0000007	.0000016	.0000034
33					.0000001	.0000002	.0000004	.0000008
34							.0000001	.0000002

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999994	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999946	.9999971	.9999985	.9999992	.9999996	.9999998	.9999999	.9999999
5	.9999674	.9999817	.9999899	.9999945	.9999971	.9999984	.9999992	.9999996
6	.9998438	.9999098	.9999475	.9999702	.9999833	.9999908	.9999950	.9999973
7	.9993872	.9996270	.9997762	.9998677	.9999229	.9999557	.9999750	.9999860
8	.9979736	.9987145	.9991964	.9995051	.9996998	.9998206	.9998944	.9999388
9	.9942314	.9961878	.9975185	.9984090	.9989954	.9993753	.9996175	.9997695
10	.9856299	.9901135	.9933021	.9955317	.9970649	.9981018	.9987915	.9992427
11	.9682599	.9772839	.9839935	.9888960	.9924165	.9949017	.9966263	.9978029
12	.9371496	.9532505	.9657670	.9753228	.9824891	.9877494	.9915923	.9943123
13	.8873499	.9130147	.9338706	.9505094	.9635405	.9735623	.9811325	.9867495
14	.8156519	.8524215	.8836669	.9097104	.9310107	.9481094	.9615845	.9720116
15	.7223283	.7699284	.8122230	.8490584	.8805196	.9068815	.9285544	.9460450
16	.6119984	.6679369	.7198956	.7671781	.8093511	.8462340	.8778722	.9044983
17	.4931325	.5530032	.6111445	.6664270	.7179194	.7649236	.8069897	.8435094
18	.3760408	.4345867	.4940280	.5530820	.6105234	.6652529	.7163531	.7531242
19	.2703088	.3227490	.3784129	.4361950	.4948880	.5532573	.6101151	.6443867
20	.1826002	.2257159	.2735637	.3254599	.3805085	.4376490	.4957191	.5535236
21	.1156405	.1482364	.1860549	.2289128	.2763868	.3278211	.3823545	.4389651
22	.0695261	.0912169	.1187404	.1513303	.1890285	.2316584	.2788131	.3298617
23	.0379369	.0529970	.0709613	.0938046	.1213983	.1539668	.1915511	.2339830
24	.0195952	.0288142	.0396411	.0544120	.0730443	.0959078	.1236327	.1561683
25	.0094320	.0141412	.0206684	.0294839	.0410961	.0560272	.0747813	.0970074
26	.0042261	.0066015	.0100436	.0149009	.0215824	.0305492	.0422992	.0573438
27	.0017605	.0028668	.0045427	.0070135	.0105627	.0155342	.0223307	.0314056
28	.0006811	.0011566	.0019097	.0030698	.0048100	.0073540	.0106824	.0160348
29	.0002444	.0004330	.0007451	.0012476	.0020347	.0032356	.0050226	.0076174
30	.0000812	.0001501	.0002694	.0004700	.0007982	.0013208	.0021320	.0033604
31	.0000250	.0000482	.0000901	.0001639	.0002898	.0004992	.0008383	.0013738
32	.0000071	.0000143	.0000278	.0000528	.0000972	.0001744	.0003047	.0005193
33	.0000018	.0000035	.0000079	.0000157	.0000301	.0000561	.0001021	.0001811
34	.0000004	.0000010	.0000021	.0000043	.0000085	.0000166	.0000315	.0000581
35	.0000001	.0000002	.0000005	.0000011	.0000022	.0000045	.0000089	.0000171
36			.0000001	.0000002	.0000005	.0000011	.0000023	.0000046
37				.0000001	.0000001	.0000003	.0000005	.0000011
38						.0000001	.0000001	.0000002

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999986	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
7	.9999933	.9999959	.9999978	.9999989	.9999994	.9999997	.9999999	.9999999
8	.9999651	.9999804	.9999892	.9999941	.9999969	.9999983	.9999991	.9999996
9	.9998632	.9999202	.9999541	.9999741	.9999856	.9999921	.9999958	.9999978
10	.9995330	.9997166	.9998308	.9999007	.9999427	.9999675	.9999819	.9999901
11	.9985930	.9992123	.9994495	.9996643	.9997987	.9998814	.9999313	.9999610
12	.9962141	.9975209	.9984033	.9989887	.9993703	.9996147	.9997683	.9998632
13	.9908438	.9937757	.9958383	.9972637	.9982313	.9988763	.9992966	.9995700
14	.9799351	.9858483	.9901822	.9933018	.9955071	.9970378	.9980609	.9987787
15	.9599007	.9706767	.9789054	.9850749	.9896164	.9928986	.9952370	.9968484
16	.9264872	.9443097	.9584886	.9695613	.9780493	.9844364	.9891532	.9935720
17	.8753946	.9025429	.9247962	.9428972	.9573468	.9666672	.9773707	.9889370
18	.8051014	.8420531	.8739622	.9009965	.9234701	.9418015	.9564735	.9779953
19	.7151650	.7617476	.8036566	.8406396	.8726549	.8998446	.9224991	.9410172
20	.6099048	.6638070	.7143303	.7607688	.8026321	.8396492	.8717569	.8990056
21	.4965271	.5538771	.6098811	.6634975	.7138304	.7601688	.8235811	.8326824
22	.3819789	.4401565	.4973168	.5543155	.6100362	.6634467	.7136519	.7599342
23	.2808706	.3316051	.3853809	.4412341	.4980929	.5546379	.6103652	.6636471
24	.1936476	.2359105	.2825809	.3330693	.3865921	.4422066	.4988595	.5554448
25	.1254585	.1579525	.1953361	.2374594	.2839607	.3342683	.3876168	.4430809
26	.0761774	.0992420	.1268873	.1593324	.1966306	.2386428	.2850217	.3352115
27	.0432484	.0583627	.0772364	.1003079	.1279269	.1603172	.1975404	.2394495
28	.0229081	.0330496	.0439423	.0590844	.0779606	.1010088	.1285824	.1609120
29	.0114974	.0163978	.0233108	.0324784	.0443794	.0595087	.0783508	.1013463
30	.0051764	.0077995	.0115035	.0166197	.0235358	.0326900	.0445581	.0596346
31	.0021990	.0034411	.0052685	.0078974	.0115982	.0166981	.0235811	.0326824
32	.0008641	.0014049	.0022339	.0034760	.0052968	.0079092	.0115796	.0166315
33	.0003133	.0005295	.0008746	.0014133	.0022356	.0034639	.0052605	.0078343
34	.0001045	.0001837	.0003153	.0005295	.0008694	.0013984	.0022039	.0034050

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 50$$

r	.41	.42	.43	.44	.45	.46	.47	.48
35	.0000320	.0000585	.0001043	.0001820	.0003105	.0005187	.0008486	.0013607
36	.0000090	.0000170	.0000316	.0000572	.0001015	.0001761	.0002992	.0004980
37	.0000023	.0000045	.0000087	.0000164	.0000302	.0000545	.0000962	.0001662
38	.0000005	.0000011	.0000022	.0000043	.0000082	.0000159	.0000280	.0000504
39	.0000001	.0000002	.0000005	.0000010	.0000020	.0000039	.0000074	.0000138
40			.0000001	.0000002	.0000004	.0000009	.0000017	.0000034
41					.0000001	.0000002	.0000004	.0000007
42							.0000001	.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	.9999998	.9999999
9	.9999989	.9999994
10	.9999947	.9999972
11	.9999782	.9999881
12	.9999207	.9999549
13	.9997411	.9998471
14	.9992368	.9995319
15	.9979562	.9986989
16	.9950034	.9966998
17	.9887974	.9923267
18	.9768721	.9835804
19	.9558664	.9675457
20	.9218757	.9405398
21	.8712563	.8986806
22	.8017787	.8388818
23	.7137861	.7600562
24	.6108655	.6640945
25	.4996205	.5861376
26	.3884627	.4438624
27	.2857716	.3359055
28	.1980704	.2399438
29	.1288552	.1611182
30	.0784062	.1013194
31	.0444768	.0594602
32	.0234453	.0324543
33	.0114476	.0164196
34	.0051600	.0076733
35	.0021395	.0033002
36	.0008128	.0013011
37	.0002817	.0004681
38	.0000886	.0001529
39	.0000252	.0000451
40	.0000064	.0000119
41	.0000015	.0000028
42	.0000003	.0000006
43	.0000001	.0000001

$$F(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 51$$

c	.01	.02	.03	.04	.05	.06	.07	.08
1	.4010440	.6431137	.7884766	.8753096	.9269023	.9573891	.9753030	.9857700
2	.0924909	.2716606	.4548366	.6103426	.7306923	.8186771	.8805022	.9286676
3	.0145735	.0821438	.1968675	.3343353	.4725219	.5973261	.7021121	.7854867
4	.0017184	.0189715	.0665532	.1464970	.2505858	.3665600	.4828010	.5906500
5	.0001602	.0035007	.0181891	.0525778	.1104156	.1898015	.2847135	.3873422
6	.0000122	.0005328	.0041286	.0157928	.0410682	.0837464	.1445613	.2211602
7	.0000008	.0000685	.0007947	.0040421	.0130859	.0318471	.0636849	.1103721
8		.0000076	.0001319	.0008946	.0036182	.0105510	.0245512	.0484409
9		.0000007	.0000191	.0001732	.0008776	.0030747	.0083507	.0188217
10		.0000001	.0000024	.0000296	.0001884	.0007947	.0025247	.0065161
11			.0000003	.0000045	.0000361	.0001835	.0006829	.0020219
12				.0000006	.0000062	.0000301	.0001662	.0005652
13				.0000001	.0000010	.0000071	.0000366	.0001430
14					.0000001	.0000013	.0000073	.0000329
15						.0000002	.0000013	.0000069
16							.0000002	.0000013
17								.0000002

c	.09	.10	.11	.12	.13	.14	.15	.16
1	.9918509	.9953616	.9973764	.9985256	.9991768	.9995435	.9997486	.9998625
2	.9507470	.9690773	.9808392	.9882718	.9929038	.9957537	.9974860	.9985270
3	.8491167	.8960655	.9297410	.9533156	.9694702	.9803299	.9875039	.9921673
4	.6849446	.7635626	.8265876	.8754588	.9122776	.9393194	.9587321	.9723816
5	.4901030	.5868920	.6735961	.7480566	.8097256	.8592060	.8978036	.9271573
6	.3089645	.4033695	.4958509	.5847502	.6656811	.7366137	.7967339	.8461841
7	.1716177	.2451835	.3274257	.4140207	.5006647	.5836110	.6599925	.7279375
8	.0842937	.1329079	.1936047	.2643553	.3421514	.4234918	.5048658	.5831458
9	.0367932	.0642950	.1026365	.1521062	.2118789	.2801293	.3543016	.4314593
10	.0143479	.0278709	.0489187	.0789743	.1188747	.1686252	.2273553	.2934166
11	.0050245	.0108729	.0210337	.0370896	.0605066	.0923874	.1332657	.1829823
12	.0015876	.0038334	.0081878	.0158011	.0279985	.0461290	.0713779	.1045788
13	.0004546	.0012261	.0028955	.0061245	.0118067	.0210276	.0340733	.0547988
14	.0001104	.0003571	.0009332	.0021659	.0045484	.0087687	.0157002	.0263531
15	.0000241	.0000950	.0002749	.0007007	.0016045	.0033520	.0064686	.0116465
16	.0000061	.0000231	.0000742	.0002079	.0005194	.0011769	.0024502	.0047367
17	.0000013	.0000052	.0000184	.0000567	.0001546	.0003802	.0008546	.0017754
18	.0000002	.0000011	.0000042	.0000142	.0000424	.0001132	.0002749	.0006146
19		.0000002	.0000009	.0000033	.0000107	.0000311	.0000816	.0001962
20			.0000002	.0000007	.0000025	.0000079	.0000224	.0000580
21				.0000001	.0000005	.0000019	.0000057	.0000159
22					.0000001	.0000004	.0000013	.0000040
23						.0000001	.0000003	.0000009
24							.0000001	.0000002

c	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999254	.9999598	.9999785	.9999886	.9999940	.9999969	.9999984	.9999992
2	.9991457	.9995094	.9997211	.9998430	.9999125	.9999517	.9999736	.9999857
3	.9951533	.9970381	.9982118	.9989331	.9993709	.9996333	.9998187	.9998796
4	.9817971	.9881774	.9924291	.9952178	.9970194	.9981664	.9988864	.9993322
5	.9489701	.9648371	.9761520	.9840719	.9895184	.9932016	.9956524	.9972580
6	.8837680	.9166762	.9408621	.9578790	.9707755	.9800385	.9865720	.9911010
7	.7865231	.8356251	.8757192	.9076760	.9325780	.9515746	.9657774	.9761943
8	.6558477	.7212498	.7703927	.8269925	.8673037	.8999643	.9258472	.9459327
9	.5086412	.5831036	.6523295	.7160527	.7718710	.8199021	.8602475	.8933731
10	.3645876	.4383394	.5121091	.5835413	.6506675	.7120121	.7666283	.8140726
11	.2406669	.3048194	.3774735	.4444044	.5153491	.5842040	.6491780	.7088951
12	.1460636	.1955759	.2522645	.3147540	.3812765	.4498415	.5184174	.5850977
13	.0814750	.1156415	.1574921	.2067121	.2634779	.3235179	.3882221	.4547846
14	.0417881	.0630019	.0908004	.1256806	.1677390	.2166286	.2715536	.3313301
15	.0197246	.0316382	.0483389	.0706950	.0993845	.1347977	.1769634	.2255120
16	.0085777	.0146559	.0237706	.0367872	.0545642	.0778657	.1072696	.1430852
17	.0034407	.0062683	.0108040	.0177140	.0277571	.0417358	.0604300	.0845188
18	.0012745	.0024776	.0045420	.0078970	.0130861	.0207554	.0316248	.0464416
19	.0004364	.0009059	.0017674	.0032611	.0057196	.0095778	.0153726	.0237289
20	.0001383	.0003066	.0006371	.0012482	.0023185	.0041021	.0069410	.0112715
21	.0000406	.0000961	.0002128	.0004470	.0008720	.0016311	.0029113	.0049772
22	.0000110	.0000279	.0000659	.0001459	.0003044	.0006022	.0011345	.0020431
23	.0000028	.0000075	.0000190	.0000446	.0000966	.0002065	.0004107	.0007795
24	.0000007	.0000019	.0000051	.0000126	.0000297	.0000658	.0001382	.0002765
25	.0000001	.0000004	.0000013	.0000033	.0000083	.0000194	.0000432	.0000911
26		.0000001	.0000003	.0000008	.0000021	.0000053	.0000125	.0000279
27			.0000001	.0000002	.0000005	.0000014	.0000034	.0000079
28					.0000001	.0000003	.0000008	.0000021
29						.0000001	.0000002	.0000005
30								.0000001

c	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999996	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999924	.9999959	.9999979	.9999989	.9999994	.9999997	.9999999	.9999999
3	.9992388	.9999622	.9999792	.9999887	.9999939	.9999968	.9999983	.9999991
4	.9956046	.9997688	.9998664	.9999238	.9999571	.9999761	.9999869	.9999929
5	.9883943	.9989530	.9993660	.9996211	.9997766	.9998700	.9999254	.9999577
6	.9741882	.9962589	.9976259	.9985145	.9990835	.9994424	.9996655	.9998021
7	.9836953	.9890017	.9926917	.9958153	.9969132	.9980375	.9987704	.9992407
8	.9618104	.9726100	.9809599	.9869673	.9912146	.9941669	.9961851	.9975422
9	.9199881	.9409341	.9570943	.9693856	.9784188	.9850434	.9907968	.9931462
10	.8543378	.8877605	.9149210	.9365470	.9534303	.9663619	.9760842	.9838623
11	.7624373	.8092935	.8464080	.8830085	.9105730	.9327351	.9502091	.9637870
12	.6488355	.7065345	.7590929	.8054048	.8453266	.8790196	.9068793	.9294621
13	.5213537	.5861861	.6477456	.7048074	.7564936	.8022831	.8419893	.8737131
14	.3944760	.4593324	.5241959	.5874438	.6476418	.7036220	.7545288	.7998321
15	.2796800	.3383561	.4001625	.4635600	.5259631	.5800529	.6478741	.7029086

$$B_{n,p}(r) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 51

x	.25	.26	.27	.28	.29	.30	.31	.32
16	.1852022	.2135100	.2070034	.3447232	.4053779	.4675256	.5296781	.5904013
17	.1145013	.1506249	.1928333	.2407411	.2936393	.3505314	.4101973	.4712758
18	.0659194	.0906682	.1211243	.1574875	.1996753	.2473013	.2996801	.3558602
19	.0353107	.0508772	.0710263	.0963320	.1271803	.1637340	.2058918	.2532686
20	.0176215	.0265959	.0388437	.0550253	.0757513	.1015294	.1327068	.1694166
21	.0081766	.0129445	.0197988	.0293232	.0421414	.0588755	.0800985	.1062805
22	.0035291	.0058645	.0094002	.0145684	.0214763	.0310901	.0452078	.0624220
23	.0014166	.0024724	.0041557	.0067439	.0105890	.0161194	.0238321	.0342772
24	.0005287	.0009676	.0017099	.0029072	.0047761	.0075974	.0117233	.0175775
25	.0001834	.0003536	.0006546	.0011665	.0020061	.0033363	.0053764	.0084091
26	.0000591	.0001192	.0002330	.0004354	.0007841	.0013641	.0022967	.0037493
27	.0000177	.0000378	.0000771	.0001511	.0002850	.0005188	.0009131	.0015565
28	.0000049	.0000110	.0000237	.0000497	.0000963	.0001834	.0003375	.0006010
29	.0000013	.0000030	.0000067	.0000146	.0000302	.0000602	.0001159	.0002156
30	.0000003	.0000008	.0000018	.0000040	.0000086	.0000183	.0000369	.0000718
31	.0000001	.0000002	.0000004	.0000010	.0000024	.0000052	.0000109	.0000221
32			.0000001	.0000002	.0000006	.0000013	.0000030	.0000063
33				.0000001	.0000001	.0000003	.0000007	.0000017
34						.0000001	.0000002	.0000004
35								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999995	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999962	.9999990	.9999998	.9999998	.9999997	.9999999	.9999999	1.0000000
5	.9999764	.9999870	.9999929	.9999962	.9999980	.9999995	.9999995	.9999997
6	.9998845	.9999336	.9999623	.9999790	.9999884	.9999937	.9999966	.9999982
7	.9995379	.9997228	.9998562	.9999046	.9999453	.9999691	.9999828	.9999906
8	.9984401	.9990247	.9993904	.9996356	.9997823	.9998719	.9999258	.9999577
9	.9956463	.9970469	.9981058	.9988036	.9992560	.9995445	.9997255	.9998372
10	.9884684	.9921788	.9947778	.9965675	.9977792	.9985858	.9991137	.9994534
11	.9739920	.9815460	.9872515	.9912848	.9941364	.9961178	.9974707	.9983788
12	.9474160	.9614218	.9721453	.9802091	.9861623	.9904797	.9935556	.9957085
13	.9037838	.9266935	.9450344	.9594422	.9705515	.9789610	.9852118	.9897746
14	.8393122	.8730225	.9012382	.9243981	.9430467	.9577815	.9692082	.9779068
15	.7531211	.7974761	.8372284	.8708931	.8992015	.9225475	.9414361	.9564316
16	.6484053	.7026140	.7522102	.7966550	.8356834	.8692796	.8976382	.9211170
17	.5323503	.5920807	.6492074	.7026974	.7517491	.7958216	.8346338	.8681450
18	.4146811	.4748183	.5350180	.5938862	.6502599	.7031278	.7517014	.7954383
19	.3052004	.3607738	.4183702	.4782743	.5376731	.5958157	.6515479	.7038017
20	.2115440	.2587071	.3102609	.3653246	.4228289	.4815803	.5403336	.5978689
21	.1377372	.1715794	.2168830	.2636698	.3149118	.3595557	.4265667	.4847885
22	.0840739	.1103035	.1423005	.1792600	.2213510	.2682002	.3191943	.3735030
23	.0480313	.0656618	.0876640	.1145138	.1464214	.1834896	.2255434	.2723344
24	.0256480	.0364704	.0506032	.0685933	.0909353	.1130260	.1501209	.1872942
25	.0127859	.0189260	.0273089	.0384580	.0529159	.0712160	.0938333	.1211518
26	.0059440	.0091650	.0135623	.0201508	.0288025	.0402308	.0549672	.0735292
27	.0025742	.0041366	.0064680	.0098530	.0146400	.0212399	.0301184	.0417808
28	.0010373	.0017321	.0028113	.0044896	.0069385	.0104625	.0154082	.0221831
29	.0003885	.0006720	.0011527	.0019036	.0030615	.0048006	.0073469	.0109844
30	.0001351	.0002423	.0004359	.0007509	.0012557	.0020484	.0032593	.0050632
31	.0000435	.0000828	.0001529	.0002741	.0004779	.0008114	.0013428	.0021684
32	.0000130	.0000258	.0000496	.0000928	.0001685	.0002978	.0005128	.0008611
33	.0000036	.0000074	.0000149	.0000290	.0000549	.0001011	.0001811	.0003164
34	.0000009	.0000020	.0000041	.0000084	.0000165	.0000316	.0000590	.0001073
35	.0000002	.0000005	.0000010	.0000022	.0000046	.0000091	.0000177	.0000335
36		.0000001	.0000002	.0000005	.0000012	.0000024	.0000049	.0000096
37			.0000001	.0000001	.0000003	.0000006	.0000012	.0000025
38					.0000001	.0000001	.0000003	.0000006
39							.0000001	.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999991	.9999995	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000
7	.9999949	.9999973	.9999986	.9999993	.9999996	.9999998	.9999999	1.0000000
8	.9999763	.9999869	.9999929	.9999962	.9999980	.9999990	.9999995	.9999997
9	.9999050	.9999455	.9999692	.9999829	.9999907	.9999950	.9999974	.9999986
10	.9996684	.9998021	.9998839	.9999330	.9999620	.9999788	.9999884	.9999938
11	.9989778	.9993661	.9996135	.9997683	.9998635	.9999210	.9999551	.9999749
12	.9971890	.9981893	.9988531	.9992860	.9995631	.9997374	.9998450	.9999101
13	.9930456	.9953487	.9969413	.9980227	.9987439	.9992150	.9995194	.9997107
14	.9840077	.9891778	.9926143	.9950451	.9967330	.9978835	.9986532	.9991585
15	.9681148	.9770488	.9837545	.9886948	.9928672	.9958026	.9965684	.9977749
16	.9401867	.9553838	.9678678	.9763873	.9832545	.9883289	.9920079	.9946247
17	.8965196	.9200849	.9392839	.9546294	.9666630	.9759209	.9829085	.9880818
18	.8340446	.8674588	.8958208	.9194328	.9387146	.9541597	.9662982	.9756473
19	.7520389	.7954759	.8338880	.8671966	.8955217	.9191448	.9384671	.9539667
20	.6530615	.7049420	.7527406	.7959119	.8341423	.8673391	.8956057	.9192076
21	.5430119	.6000476	.6547943	.7062969	.7537911	.7967298	.8347918	.8678710
22	.4301201	.4879192	.5457195	.6023556	.6567436	.7079389	.7551803	.7979178
23	.3231425	.3771967	.4335134	.4909899	.5484674	.6047980	.6589099	.7098649
24	.2294090	.2761028	.3267849	.3806618	.4367675	.4940170	.5512672	.6073819
25	.1534161	.1906948	.2328514	.2795277	.3301448	.3839199	.4399009	.4970156
26	.0963827	.1239004	.1563203	.1937082	.2359292	.2826305	.3332414	.3869888
27	.0567493	.0755320	.0985863	.1262786	.1588436	.1963470	.2386566	.2854257
28	.0312476	.0431011	.0582588	.0772227	.1004455	.1283907	.1609926	.1986196
29	.0160578	.0229715	.0321823	.0441851	.0594909	.0785988	.1019597	.1299378
30	.0076860	.0114108	.0165807	.0235975	.0329154	.0450266	.0604407	.0796532
31	.0034197	.0052717	.0079495	.0117352	.0169701	.0240543	.0334403	.0456195

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 51

c	.41	.42	.43	.44	.45	.46	.47	.48
32	.0014114	.0022601	.0035387	.0054214	.0081324	.0119521	.0172203	.0243359
33	.0005391	.0008972	.0014591	.0023209	.0036131	.0055087	.0082305	.0120570
34	.0001901	.0003289	.0005558	.0009182	.0014842	.0023485	.0036405	.0055311
35	.0000617	.0001110	.0001950	.0003348	.0005620	.0009234	.0014856	.0023420
36	.0000184	.0000344	.0000629	.0001121	.0001956	.0003337	.0005574	.0009121
37	.0000050	.0000098	.0000185	.0000344	.0000623	.0001104	.0001916	.0003255
38	.0000012	.0000025	.0000050	.0000096	.0000181	.0000333	.0000601	.0001060
39	.0000003	.0000006	.0000012	.0000024	.0000048	.0000091	.0000171	.0000313
40	.0000001	.0000001	.0000003	.0000006	.0000011	.0000023	.0000044	.0000084
41			.0000001	.0000001	.0000002	.0000005	.0000010	.0000020
42						.0000001	.0000002	.0000004
43								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.00000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	.9999999	.9999999
9	.9999993	.9999997
10	.9999967	.9999983
11	.9999863	.9999936
12	.9999489	.9999715
13	.9998291	.9999010
14	.9994839	.9996895
15	.9985637	.9991154
16	.9964503	.9976993
17	.9918383	.9945132
18	.9827155	.9879535
19	.9661592	.9755631
20	.9385311	.9540427
21	.8960598	.9196102
22	.8358227	.8687812
23	.7569025	.7994690
24	.6612966	.7120753
25	.5541305	.6101160
26	.4429300	.5000000
27	.3360902	.3898840
28	.2410440	.2879247
29	.1627706	.2005310
30	.1031262	.1312188
31	.0611082	.0803898
32	.0337507	.0459573
33	.0173265	.0244369
34	.0082409	.0120465
35	.0036195	.0054868
36	.0014629	.0023007
37	.0005419	.0008846
38	.0001832	.0003105
39	.0000563	.0000990
40	.0000156	.0000285
41	.0000039	.0000074
42	.0000009	.0000017
43	.0000002	.0000003
44		.0000001

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.40770336	.65025514	.79482230	.88029730	.93055720	.96052450	.97780325	.98690920
2	.09557640	.27908970	.46484580	.62094130	.74050310	.83599990	.89471380	.92771590
3	.01535260	.06593410	.20466050	.34537560	.48543050	.61066090	.71455940	.79644120
4	.00184690	.02023490	.07046260	.15401050	.26160860	.38004060	.43011627	.60663370
5	.00017580	.00381010	.01964000	.05633450	.11742410	.20040700	.29957960	.40360680
6	.00001370	.00059220	.00455050	.01726420	.04453560	.09010970	.15437190	.23445470
7	.00000090	.00007780	.00089470	.00451210	.01448500	.03496100	.06903460	.11923520
8	.00000010	.00000880	.00015170	.00102050	.00400960	.01182080	.02729060	.05339540
9		.00000090	.00002250	.00020210	.00101460	.00352330	.00948470	.02119120
10		.00000010	.00000290	.00003540	.00022290	.00093150	.00283250	.00750050
11			.00000030	.00000550	.00004370	.00022020	.00091190	.00236140
12				.00000080	.00000770	.00004660	.00020240	.00068180
13				.00000010	.00000120	.00000900	.00004570	.00017680
14					.00000020	.00000160	.00000940	.00004170
15						.00000020	.00000180	.00000900
16							.00000030	.00000180
17								.00000030
18								.00000010

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.99258430	.99582540	.99766500	.99070250	.99320330	.99526074	.99678061	.99780145
2	.95444640	.97170580	.98265830	.98950220	.99371430	.99562443	.99728264	.99874070
3	.85826340	.90336670	.93536180	.95751040	.97225160	.98248920	.99096010	.99531449
4	.69972010	.77681290	.83793450	.88480160	.91971270	.94380600	.96430470	.97554730
5	.50763870	.60455910	.69042520	.76334480	.82305730	.87042190	.90694290	.93439320
6	.32526700	.42082170	.51540290	.60134690	.68440690	.75377660	.81189430	.85391900
7	.18199780	.26090210	.34595250	.43450830	.52211680	.60503130	.68050170	.74685700
8	.09215280	.14413550	.20832500	.28231520	.36275010	.44589085	.52811340	.60631250
9	.04106820	.07115630	.11264300	.16557610	.22881440	.30020010	.37688620	.45572920
10	.01636800	.03151330	.05482770	.08775010	.13096530	.18423570	.24539720	.31550340
11	.00586360	.01257270	.02410110	.04211580	.06809440	.10306070	.14737910	.20065180
12	.00189690	.00453730	.00960090	.01835570	.03232460	.05260520	.08066100	.11712340
13	.00055650	.00148690	.00347770	.00728570	.01391170	.02454180	.04043390	.06276360
14	.00014860	.00044400	.00114910	.00264100	.00549200	.01048490	.02059120	.03690440
15	.00003630	.00012120	.00034730	.00088760	.00198720	.00411030	.00785340	.01399950
16	.00000810	.00003030	.00009630	.00026700	.00066050	.00148140	.00300520	.00584230
17	.00000170	.00000700	.00002450	.00007460	.00020210	.00050130	.00113700	.00240920
18	.00000030	.00000150	.00000580	.00001930	.00005700	.00015660	.00040110	.00093840
19	.00000010	.00000030	.00000120	.00000460	.00001540	.00004440	.00013340	.00034410
20		.00000010	.00000020	.00000110	.00000380	.00001180	.00004220	.00012060
21				.00000020	.00000080	.00000270	.00000880	.00002660
22					.00000010	.00000060	.00000200	.00000590
23						.00000010	.00000040	.00000140
24							.00000010	.00000030
25								.00000010

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.99993800	.99996700	.99998260	.99999090	.99953530	.99999760	.99999870	.99999940
2	.99927820	.99959050	.99977000	.99987210	.99992960	.99996160	.99997930	.99998890
3	.99583200	.99748290	.99849860	.99911510	.99948460	.99970330	.99983120	.99990510
4	.98406770	.98977230	.99352700	.99596090	.99751320	.99864890	.99929400	.99964610
5	.95455070	.96903830	.97924470	.98630110	.99109360	.99429390	.99639620	.99775590
6	.89651240	.92534520	.94708120	.96311760	.97471160	.98293440	.98866050	.99257870
7	.80339470	.85021430	.88798240	.91771660	.94055950	.95783600	.97056020	.97977190
8	.67806260	.74183740	.79688480	.84312920	.88013130	.91131060	.93503110	.95312550
9	.53366630	.60801830	.67668650	.73824070	.79191190	.83751580	.87533540	.90598740
10	.38907670	.46440760	.53868600	.61004360	.67612020	.73574790	.78816070	.83310470
11	.26173340	.32885300	.39981420	.47223180	.54376600	.61233180	.67619220	.73413770
12	.16214620	.21523970	.27529420	.34068410	.40243170	.47940130	.54049260	.61480910
13	.09245510	.13002970	.17549890	.22833205	.28742560	.35133910	.41816710	.48605990
14	.04853490	.07247700	.10347180	.14188690	.18773480	.24014410	.29038740	.36095930
15	.02347540	.03728360	.05640660	.08169210	.11373910	.15280050	.19071910	.25090830
16	.01047260	.01771270	.02843850	.04356870	.06399760	.09033907	.12332990	.16286760
17	.00431400	.00777800	.01326760	.02152860	.03038660	.04960440	.07120310	.09857480
18	.00164270	.00315990	.00573170	.00986040	.01616700	.02537110	.03825000	.05555010
19	.00057090	.00118080	.00239460	.00418830	.00738650	.01203690	.01911060	.02917990
20	.00018900	.00041450	.00088180	.00165080	.00303280	.00530680	.00868020	.01426130
21	.00005720	.00013400	.00029340	.00060410	.00117580	.00217470	.00383810	.00648790
22	.00001610	.00004020	.00009380	.00020530	.00042960	.00082850	.00154320	.00274730
23	.00000420	.00001120	.00002790	.00006400	.00014700	.00029350	.00055770	.00100260
24	.00000100	.00000290	.00000770	.00001900	.00004630	.00009670	.00018960	.00035970
25	.00000020	.00000070	.00000200	.00000520	.00001280	.00002960	.00006500	.00013560
26		.00000020	.00000050	.00000130	.00000340	.00000840	.00002100	.00004810
27			.00000010	.00000030	.00000090	.00000220	.00000550	.00001270
28				.00000010	.00000020	.00000060	.00000140	.00000330
29						.00000010	.00000030	.00000080
30							.00000010	.00000020

N	25	.26	.27	.28	.29	.30	.31	.32
1	.99999970	.99999980	.99999990	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99990420	.99999690	.99999840	.99999920	.99999960	.99999980	.99999990	1.00000000
3	.99917720	.99997100	.99998420	.99999150	.99999550	.99999760	.99999880	.99999940
4	.99968650	.99988190	.99995600	.99998420	.99999670	.99999830	.99999040	.99999690
5	.99862180	.99916510	.99970110	.99990360	.99996180	.99998180	.99999440	.99999690
6	.99521670	.99695940	.99880950	.99888240	.99928450	.99957070	.99974600	.99985190
7	.98631850	.99088860	.99402400	.99613910	.99754340	.99845900	.99904780	.99948030
8	.97668316	.98417180	.98841750	.98926770	.99386670	.99533810	.99696050	.99808570
9	.93029370	.94916980	.96353800	.97426630	.98212540	.98778050	.99177730	.99455290
10	.87075030	.90158560	.92630780	.94572500	.96067530	.97196630	.98033510	.98642510
11	.78540490	.82969490	.86709650	.89713690	.92306160	.94288230	.95823030	.96997830
12	.67677834	.73325180	.78347800	.82713390	.86424470	.89513420	.92031150	.94042690
13	.55307570	.61747670	.67780940	.73297470	.78225520	.82530410	.86210520	.89291270

$$I_x(p,q) = \sum_{j=a}^{n} \binom{n}{j} x^j (1-x)^{n-j}$$

$n = 52$

p	.25	.26	.27	.28	.29	.30	.31	.32
14	.4261959	.4923144	.5575543	.6203056	.6792088	.7332203	.7816415	.8241140
15	.3083790	.3698099	.4336515	.4982474	.5619599	.6238836	.6809371	.7339241
16	.2008891	.2607700	.3175564	.3779975	.4406376	.5039236	.5663189	.6264056
17	.1321990	.1721750	.2182592	.2698561	.3260435	.3856297	.4472363	.5093960
18	.0780648	.1062569	.1404857	.1807915	.2269248	.2782707	.3339404	.3927932
19	.0429779	.0612228	.0845528	.1134585	.1482038	.1888043	.2349662	.2860979
20	.0220488	.0329084	.0475330	.0665911	.0906657	.1201910	.1553942	.1962498
21	.0105378	.0164936	.0249408	.0365198	.0518883	.0716710	.0964071	.1264843
22	.0046910	.0077053	.0122078	.0186928	.0277532	.0399857	.0560239	.0764569
23	.0019447	.0033543	.0055717	.0089347	.0138623	.0200506	.0304586	.0432836
24	.0007507	.0013603	.0023703	.0039815	.0064618	.0101540	.0154770	.0225214
25	.0002698	.0005138	.0009395	.0016539	.0028094	.0046146	.0073439	.0113430
26	.0000902	.0001807	.0003468	.0006401	.0011385	.0019558	.0032514	.0052404
27	.0000281	.0000591	.0001192	.0002307	.0004298	.0007724	.0013420	.0022582
28	.0000081	.0000180	.0000381	.0000774	.0001510	.0002841	.0005160	.0009060
29	.0000022	.0000051	.0000113	.0000241	.0000493	.0000972	.0001846	.0003390
30	.0000005	.0000013	.0000031	.0000070	.0000150	.0000309	.0000614	.0001178
31	.0000001	.0000003	.0000008	.0000019	.0000042	.0000091	.0000190	.0000380
32		.0000001	.0000002	.0000005	.0000011	.0000025	.0000054	.0000111
33				.0000001	.0000003	.0000006	.0000014	.0000032
34					.0000001	.0000001	.0000004	.0000009
35							.0000001	.0000002

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999973	.9999986	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000
5	.9999829	.9999907	.9999950	.9999974	.9999986	.9999993	.9999996	.9999998
6	.9999148	.9999517	.9999730	.9999853	.9999920	.9999957	.9999977	.9999988
7	.9996523	.9997945	.9998803	.9999314	.9999612	.9999784	.9999882	.9999936
8	.9988024	.9992621	.9995522	.9997325	.9998426	.9999088	.9999480	.9999708
9	.9964477	.9977193	.9985585	.9991031	.9994507	.9996689	.9998036	.9998854
10	.9907777	.9938339	.9959426	.9973725	.9983256	.9989501	.9993503	.9996069
11	.9787692	.9852272	.9898857	.9931866	.9954043	.9970556	.9981115	.9988006
12	.9561861	.9688990	.9774331	.9841964	.9891127	.9926221	.9950825	.9967766
13	.9181824	.9385012	.9545236	.9669185	.9763275	.9033381	.9004659	.9921402
14	.8605878	.8912707	.9165668	.9370140	.9532235	.9650297	.9754466	.9836539
15	.7815642	.8234919	.8596318	.8901549	.9154241	.9359364	.9522673	.9650217
16	.6829615	.7350371	.7619665	.8233807	.8591850	.8895214	.9147194	.9358428
17	.5706538	.6296620	.6852584	.7365222	.7862048	.8237356	.8592456	.8891338
18	.4535146	.5147073	.5749048	.6330583	.6978109	.7303514	.7840450	.8245200
19	.3413290	.3995592	.4595274	.5198946	.5793302	.6165943	.6906078	.7405043
20	.2424506	.2934098	.3482770	.4059865	.4653212	.5049897	.5837072	.6402740
21	.1620935	.2031828	.2404353	.3002655	.3548411	.4121250	.4769358	.5300206
22	.1017828	.1333553	.1683343	.2096475	.2559605	.3261695	.3961153	.4416972
23	.0599253	.0809420	.1067997	.1378225	.1741454	.2156796	.2620917	.3132019
24	.0330345	.0463954	.0635815	.0851247	.1114651	.1420022	.1795513	.2231103
25	.0170304	.0248911	.0354619	.0493067	.0669837	.0890038	.1157855	.1476067
26	.0082018	.0124838	.0185036	.0267414	.0377248	.0520052	.0701250	.0925782
27	.0036862	.0058463	.0090210	.0135602	.0190001	.0264565	.0360094	.0544802
28	.0015445	.0025536	.0041041	.0064204	.0097800	.0144579	.0211452	.0300282
29	.0006026	.0010301	.0017402	.0028346	.0044960	.0068521	.0104900	.0156430
30	.0002187	.0003934	.0006868	.0011653	.0019238	.0030943	.0048535	.0074317
31	.0000737	.0001384	.0002520	.0004454	.0007657	.0012815	.0020903	.0033263
32	.0000231	.0000452	.0000885	.0001580	.0002830	.0004930	.0008365	.0013840
33	.0000067	.0001137	.0000271	.0000520	.0000969	.0001758	.0003105	.0005343
34	.0000018	.0000038	.0000079	.0000158	.0000307	.0000580	.0001066	.0001909
35	.0000004	.0000010	.0000021	.0000044	.0000090	.0000177	.0000338	.0000630
36	.0000001	.0000002	.0000005	.0000011	.0000024	.0000050	.0000099	.0000192
37		.0000001	.0000001	.0000003	.0000006	.0000013	.0000026	.0000053
38				.0000001	.0000001	.0000003	.0000006	.0000014
39						.0000001	.0000001	.0000003
40								.0000001

p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999966	.9999982	.9999991	.9999995	.9999998	.9999999	1.0000000	1.0000000
8	.9999839	.9999913	.9999953	.9999976	.9999987	.9999994	.9999997	.9999998
9	.9999342	.9999629	.9999794	.9999888	.9999940	.9999968	.9999983	.9999992
10	.9997654	.9998623	.9999206	.9999550	.9999749	.9999853	.9999926	.9999961
11	.9992609	.9995492	.9997207	.9998408	.9999078	.9999476	.9999708	.9999840
12	.9979224	.9988035	.9991001	.9994982	.9996983	.9998218	.9998967	.9999412
13	.9947444	.9965417	.9977644	.9985785	.9991185	.9994558	.9996772	.9998064
14	.9879492	.9917696	.9944749	.9963552	.9976379	.9984964	.9990403	.9994236
15	.9747949	.9821430	.9875642	.9914889	.9942768	.9962198	.9975482	.9984391
16	.9516372	.9644871	.9743571	.9818026	.9873102	.9913068	.9941513	.9961368
17	.9144231	.9349105	.9513170	.9642029	.9741292	.9816286	.9871858	.9912224
18	.8596594	.8895618	.9145100	.9349193	.9512914	.9641699	.9741034	.9816159
19	.7856613	.8257087	.8605191	.8901806	.9129585	.9352517	.9515463	.9643734
20	.6936422	.7429663	.7876340	.8272772	.8617631	.8911697	.9157506	.9358920
21	.5881322	.6441033	.6969112	.7457275	.7899492	.8292101	.8633740	.8925186
22	.4764058	.5350131	.5926216	.6480898	.7004150	.7407827	.7928974	.8314953
23	.3670033	.4237001	.4817660	.5399908	.5971917	.6522448	.7041570	.7571303
24	.2678398	.3185619	.3726782	.4292062	.4870345	.5449763	.6018593	.6565737
25	.1845732	.2265559	.2738423	.3240267	.3781250	.4345646	.4922430	.5499914
26	.1197664	.1519541	.1892287	.2311688	.2783262	.3292236	.3833714	.4398017
27	.0729990	.0958467	.1234119	.1559477	.1935321	.2360374	.2831115	.3341760

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 52

r	.41	.42	.43	.44	.45	.46	.47	.48
28	.0417033	.0567220	.0755996	.0980073	.1267246	.1595266	.1974947	.2402865
29	.0222856	.0314259	.0433952	.0587216	.0779205	.1014570	.1297059	.1629051
30	.0111104	.0162663	.0232894	.0326560	.0448744	.0604698	.0799546	.1037914
31	.0051689	.0078501	.0116607	.0169546	.0241455	.0337016	.0461305	.0619571
32	.0022348	.0035250	.0054354	.0081995	.0121094	.0175191	.0248437	.0345520
33	.0008968	.0014696	.0023533	.0036851	.0056468	.0084737	.0124557	.0175509
34	.0003332	.0005676	.0009442	.0015354	.0024432	.0038038	.0057978	.0086635
35	.0001144	.0002025	.0003502	.0005915	.0009770	.0015789	.0024984	.0038727
36	.0000362	.0000666	.0001197	.0002101	.0003605	.0006049	.0009936	.0015984
37	.0000105	.0000201	.0000376	.0000686	.0001223	.0002131	.0003635	.0006071
38	.0000028	.0000056	.0000108	.0000205	.0000380	.0000688	.0001819	.0002114
39	.0000007	.0000014	.0000028	.0000056	.0000108	.0000203	.0000373	.0000678
40	.0000001	.0000003	.0000007	.0000014	.0000028	.0000054	.0000104	.0000194
41		.0000001	.0000001	.0000003	.0000006	.0000013	.0000026	.0000051
42				.0000001	.0000001	.0000003	.0000006	.0000013
43						.0000001	.0000001	.0000003

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	.9999999	1.0000000
9	.9999996	.9999998
10	.9999980	.9999990
11	.9999914	.9999955
12	.9999672	.9999821
13	.9998878	.9999362
14	.9996531	.9997952
15	.9990248	.9994024
16	.9974957	.9984074
17	.9940982	.9961063
18	.9871057	.9912334
19	.9742717	.9817583
20	.9520689	.9648029
21	.9168708	.9368265
22	.8653389	.8941957
23	.7955734	.8341251
24	.7081435	.7557722
25	.6066419	.6610957
26	.4974182	.5550580
27	.3884417	.4449420
28	.2876167	.3389043
29	.2011246	.2442278
30	.1323520	.1658749
31	.0816940	.1058043
32	.0471530	.0631735
33	.0253744	.0351971
34	.0126928	.0182417
35	.0058440	.0087666
36	.0025196	.0038937
37	.0009932	.0015926
38	.0003590	.0005976
39	.0001185	.0002048
40	.0000355	.0000638
41	.0000096	.0000179
42	.0000023	.0000045
43	.0000005	.0000010
44	.0000001	.0000002

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

(1 - 53)

n	.01	.02	.03	.04	.05	.06	.07	.08
1	.41129633	.65724464	.80009776	.88850854	.93140293	.96233490	.97864082	.98795564
2	.09869910	.20651289	.34747451	.63131155	.75000058	.83497666	.89343099	.93245133
3	.01615549	.06897973	.21241137	.35639082	.49818841	.62359245	.72667771	.80696116
4	.00194880	.02154869	.07448869	.16166511	.27287000	.39421883	.51330040	.62145449
5	.00019285	.00413866	.04116470	.06024160	.12463700	.21120700	.31254970	.41981733
6	.00001530	.00065660	.00500310	.01180271	.04818000	.09672750	.16446850	.24798690
7	.00000100	.00008001	.00100440	.00503220	.01598760	.03827000	.07529981	.12845270
8	.00000010	.00001020	.00017400	.00113601	.00461130	.01321670	.03023450	.05866260
9		.00000100	.00002640	.00023480	.00115850	.00403160	.01073110	.02376760
10		.00000010	.00000350	.00004810	.00026350	.00108700	.00339120	.00859500
11			.00000040	.00000670	.00005870	.00026290	.00096030	.00279090
12				.00000100	.00000950	.00005720	.00024510	.00081770
13				.00000010	.00000150	.00001130	.00005660	.00021720
14					.00000020	.00000200	.00001190	.00005280
15						.00000030	.00000230	.00001160
16							.00000040	.00000230
17							.00000010	.00000040
18								.00000010

n	.09	.10	.11	.12	.13	.14	.15	.16
1	.99385170	.99624390	.99792190	.99885020	.99917700	.99266340	.99981840	.99990300
2	.95707880	.97411770	.98430900	.99040630	.99444870	.99674950	.99811950	.99892370
3	.86691990	.91020060	.94056440	.96134940	.97532780	.98442050	.99033440	.99407380
4	.71398900	.78946830	.84865150	.89355260	.92657720	.95030090	.96694090	.97833690
5	.52492600	.62178450	.70665120	.77791970	.83562250	.88087130	.91535860	.94097780
6	.34160800	.43919550	.53465530	.62342670	.70243140	.77010700	.82615160	.87118030
7	.19669400	.27689410	.36459200	.45488890	.54331450	.62585570	.70021230	.76402280
8	.10041720	.15581210	.22346400	.30057830	.38347470	.46818570	.55099010	.63879960
9	.04566590	.07845430	.12316800	.17958480	.24622700	.32059930	.39957350	.47900250
10	.01859100	.03547760	.06118740	.09700920	.14360570	.20047080	.26597060	.33793950
11	.00680900	.01446680	.02748100	.04759190	.07626770	.11442520	.16223180	.21903810
12	.00225390	.00534090	.01119590	.02120690	.03600760	.05966900	.09066870	.13048790
13	.00067720	.00179190	.00415120	.00861410	.01629230	.02847060	.04646800	.07146120
14	.00018530	.00054830	.00140520	.00319830	.00658650	.01245290	.02106760	.03600190
15	.00004640	.00015350	.00043550	.00108830	.00244280	.00500280	.00946400	.01670430
16	.00001060	.00003940	.00012390	.00034020	.00083300	.00184950	.00377300	.00714740
17	.00000220	.00000930	.00003240	.00009720	.00026170	.00063030	.00138780	.00282410
18	.00000040	.00000200	.00000780	.00002600	.00007590	.00019840	.00047160	.00103170
19	.00000010	.00000040	.00000170	.00000640	.00002030	.00005770	.00014830	.00034900
20		.00000010	.00000030	.00000140	.00000500	.00001560	.00004320	.00010740
21			.00000010	.00000030	.00000120	.00000390	.00001170	.00003180
22				.00000010	.00000020	.00000090	.00000290	.00000860
23						.00000020	.00000070	.00000220
24							.00000010	.00000050
25								.00000010

n	.17	.18	.19	.20	.21	.22	.23	.24
1	.99994060	.99997300	.99998590	.99999270	.99993620	.99999810	.99999900	.99999950
2	.99939040	.99965820	.99981040	.99986590	.99994340	.99996950	.99998380	.99999140
3	.99641780	.99786230	.99874010	.99926650	.99957810	.99976020	.99986530	.99992520
4	.98606760	.99116020	.99447230	.99659170	.99792730	.99875630	.99926350	.99956960
5	.95956860	.97277040	.98195850	.98823310	.99244180	.99521680	.99701670	.99816570
6	.90637890	.93320990	.95319220	.96775430	.97815180	.98543340	.99043970	.99382120
7	.81922470	.86373790	.89921130	.92679680	.94776300	.96335810	.97472320	.98284550
8	.69936900	.76134520	.81419330	.85804670	.89352480	.92155250	.94328020	.95957300
9	.55881370	.63210550	.69952440	.75921840	.81062870	.85375240	.88906540	.91731730
10	.41365700	.49025750	.56503870	.63568300	.70043650	.75813690	.80821090	.85059660
11	.28131810	.35325280	.42623030	.49979410	.57156030	.63947550	.70194500	.75788980
12	.17907600	.23569010	.30899530	.36699360	.43760410	.50864380	.57786350	.64344790
13	.10430260	.14536750	.19446000	.25079320	.31304690	.37948940	.44814190	.51695960
14	.05600130	.08038650	.11715700	.15917360	.20859090	.26460050	.32593670	.39098330
15	.02773550	.04361840	.06534900	.09373110	.12925720	.17201610	.22164280	.27732050
16	.01268310	.02123540	.03375250	.05119340	.07442660	.10412090	.14064580	.18399740
17	.00536090	.00956630	.01615010	.02593670	.03981050	.05863980	.08318520	.11400510
18	.00209680	.00399120	.00716360	.01219400	.01978310	.03072000	.04582920	.06589890
19	.00075970	.00154160	.00294770	.00533270	.00913540	.01497040	.02351270	.03551600
20	.00025520	.00055380	.00112600	.00215630	.00392180	.00679740	.01123320	.01784180
21	.00007960	.00018450	.00039950	.00081340	.00156570	.00288370	.00499780	.00835350
22	.00002300	.00005710	.00013180	.00028510	.00058160	.00113470	.00207100	.00364500
23	.00000620	.00001640	.00004040	.00009290	.00020100	.00041120	.00079940	.00148230
24	.00000160	.00000440	.00001150	.00002820	.00006470	.00014000	.00028740	.00056170
25	.00000040	.00000110	.00000310	.00000800	.00001940	.00004440	.00009630	.00019840
26	.00000010	.00000030	.00000080	.00000210	.00000540	.00001310	.00003000	.00006530
27		.00000010	.00000020	.00000050	.00000140	.00000360	.00000870	.00002000
28			.00000010	.00000010	.00000030	.00000090	.00000240	.00000570
29					.00000010	.00000020	.00000060	.00000150
30							.00000010	.00000040
31								.00000010

n	.25	.26	.27	.28	.29	.30	.31	.32
1	.99999980	.99999990	.99999990	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999550	.99999770	.99999880	.99999940	.99999970	.99999990	.99999990	1.00000000
3	.99995900	.99997770	.99998810	.99999370	.99999670	.99999830	.99999910	.99999960
4	.99975170	.99986580	.99992050	.99995590	.99997750	.99998690	.99999300	.99999630
5	.99888800	.99933510	.99960600	.99977220	.99986690	.99993600	.99995870	.99997730
6	.99606650	.99753290	.99864750	.99907120	.99944240	.99967000	.99980750	.99988940
7	.98854860	.99246700	.99512330	.99689100	.99804780	.99879250	.99926430	.99955840
8	.97117030	.98005160	.98679950	.99119880	.99422310	.99626740	.99762550	.99851280
9	.93942820	.95637340	.96909720	.97846850	.98524050	.99004480	.99339210	.99566340
10	.88563620	.91395750	.93631600	.95371630	.96689580	.97671060	.98388820	.98926860
11	.80674130	.84838650	.88308350	.91136250	.93392700	.95156610	.96508800	.97524130

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 55$$

r	.25	.26	.27	.28	.29	.30	.31	.32
12	.7639388	.7583270	.8060650	.8469768	.8812066	.9094409	.9320663	.9498833
13	.5840525	.6475762	.7063399	.7593393	.8060331	.8462531	.8801491	.9081173
14	.4579158	.5248566	.5900232	.6518530	.7090922	.7606455	.8065853	.8461296
15	.3378332	.4016611	.4671053	.5324237	.5959621	.6562647	.7121555	.7627849
16	.2337616	.2891204	.3489021	.4116675	.4758210	.5397318	.6018505	.6608102
17	.1513715	.1958097	.2460694	.3001357	.3592758	.4211179	.4841519	.5468384
18	.0915984	.1333956	.1614846	.2057346	.2556692	.3104781	.3690628	.4361061
19	.0517496	.0859317	.0996547	.1393116	.1710389	.2156440	.2656482	.3302404
20	.0273811	.0502701	.0575383	.0797132	.1073518	.1407760	.1800615	.2250008
21	.0134156	.0207615	.0310407	.0449398	.0631338	.0862875	.1146931	.1488091
22	.0061587	.0099903	.0156457	.0236894	.0347584	.0494915	.0685427	.0934656
23	.0026313	.0044856	.0073635	.0116609	.0178907	.0265911	.0383839	.0538990
24	.0010498	.0018788	.0032347	.0053684	.0086080	.0133630	.0201213	.0294373
25	.0003900	.0007339	.0013258	.0023056	.0038686	.0062764	.0098652	.0150481
26	.0001351	.0002673	.0005068	.0009240	.0016230	.0027534	.0045201	.0071932
27	.0000436	.0000907	.0001806	.0003453	.0006353	.0011274	.0019339	.0032125
28	.0000131	.0000287	.0000600	.0001203	.0002318	.0004306	.0007720	.0013392
29	.0000037	.0000084	.0000185	.0000390	.0000788	.0001532	.0002873	.0005207
30	.0000010	.0000023	.0000053	.0000118	.0000249	.0000508	.0000996	.0001886
31	.0000002	.0000006	.0000014	.0000033	.0000073	.0000157	.0000321	.0000636
32	.0000001	.0000001	.0000004	.0000009	.0000020	.0000045	.0000096	.0000199
33			.0000001	.0000002	.0000005	.0000012	.0000027	.0000058
34					.0000001	.0000003	.0000007	.0000016
35						.0000001	.0000002	.0000004
36								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999981	.9999990	.9999995	.9999998	.9999999	.9999999	1.0000000	1.0000000
5	.9998877	.9999534	.9999865	.9999982	.9999995	.9999998	.9999999	.9999999
6	.9999373	.9999650	.9999807	.9999896	.9999944	.9999971	.9999985	.9999992
7	.9997389	.9998479	.9999128	.9999507	.9999736	.9999850	.9999919	.9999957
8	.9990828	.9994431	.9996671	.9998041	.9998865	.9999353	.9999637	.9999800
9	.9978247	.9982439	.9989063	.9993097	.9995957	.9997601	.9998599	.9999196
10	.9956488	.9961550	.9969583	.9979956	.9987419	.9992333	.9995263	.9997183
11	.9927320	.9941534	.9952056	.9960935	.9967356	.9972755	.9976954	.9980280
12	.9836305	.9870539	.9897915	.9919329	.9935703	.9948069	.9956638	.9962594
13	.9307036	.9486121	.9625419	.9731384	.9810500	.9868660	.9910464	.9939996
14	.8795941	.9071290	.9298517	.9477795	.9617720	.9724829	.9805260	.9864516
15	.8076420	.8465367	.8795591	.9070242	.9294099	.9472959	.9613084	.9720746
16	.7155004	.7651117	.8091494	.8474194	.8799935	.9071591	.9893631	.9471544
17	.6077153	.6654895	.7191062	.7677912	.8110655	.8467342	.8806560	.9076974
18	.4921705	.5537919	.6135805	.6703053	.7229586	.7707974	.8133576	.8504461
19	.3783502	.4387095	.4999375	.5606335	.6194681	.6752620	.7270483	.7741110
20	.2750805	.3295006	.3872146	.4469934	.5075045	.5673994	.6253984	.6803661
21	.1886113	.2338600	.2840299	.3383351	.3957188	.4550136	.5149166	.5741820
22	.1216053	.1564367	.1967197	.2482700	.2995514	.3467710	.4039174	.4688186
23	.0737383	.0984225	.1283369	.1636795	.2044200	.2502732	.3006930	.3548880
24	.0419084	.0581413	.0787079	.1040959	.1346568	.1705576	.2117420	.2579069
25	.0223117	.0322026	.0453037	.0633012	.0834418	.1094853	.1406548	.1770693
26	.0111153	.0167023	.0244390	.0348649	.0485506	.0660647	.0879326	.1145904
27	.0051764	.0081030	.0123399	.0183084	.0264827	.0374050	.0516335	.0697194
28	.0022513	.0036731	.0058250	.0089907	.0135281	.0198394	.0284442	.0390054
29	.0009134	.0015540	.0025676	.0041255	.0064541	.0098423	.0146460	.0210072
30	.0003454	.0006139	.0010555	.0017668	.0028755	.0045603	.0070521	.0106445
31	.0001216	.0002251	.0004042	.0007046	.0011942	.0019703	.0031679	.0049685
32	.0000398	.0000769	.0001439	.0002615	.0004616	.0007936	.0013255	.0021609
33	.0000121	.0000244	.0000476	.0000902	.0001656	.0002963	.0005156	.0008742
34	.0000034	.0000072	.0000146	.0000288	.0000552	.0001028	.0001861	.0003283
35	.0000009	.0000019	.0000041	.0000085	.0000170	.0000330	.0000622	.0001142
36	.0000002	.0000005	.0000011	.0000023	.0000048	.0000098	.0000199	.0000367
37		.0000001	.0000003	.0000006	.0000013	.0000027	.0000055	.0000109
38			.0000001	.0000001	.0000003	.0000007	.0000014	.0000030
39					.0000001	.0000002	.0000003	.0000007
40							.0000001	.0000002

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999978	.9999989	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000
8	.9999891	.9999942	.9999970	.9999984	.9999993	.9999996	.9999998	.9999999
9	.9999546	.9999748	.9999863	.9999926	.9999961	.9999980	.9999990	.9999995
10	.9998346	.9999045	.9999459	.9999698	.9999835	.9999911	.9999953	.9999976
11	.9994678	.9996807	.9998118	.9998910	.9999380	.9999654	.9999810	.9999898
12	.9984712	.9990471	.9994164	.9996489	.9997926	.9998797	.9999315	.9999618
13	.9960474	.9974413	.9983726	.9989832	.9993761	.9996242	.9997778	.9998711
14	.9907353	.9937739	.9958889	.9973315	.9983015	.9989378	.9993400	.9996074
15	.9801883	.9861661	.9905358	.9936301	.9957893	.9973671	.9983589	.9989116
16	.9611319	.9719083	.9800361	.9860646	.9904452	.9935668	.9957479	.9972419
17	.9296809	.9473310	.9612342	.9719467	.9800606	.9860806	.9904393	.9935813
18	.8821185	.9086082	.9303370	.9478041	.9615684	.9722009	.9805519	.9862270
19	.8160005	.8525270	.8839352	.9093063	.9313783	.9491541	.9621401	.9726498
20	.7313700	.7777181	.8189746	.8549547	.8857010	.9114474	.9335746	.9495631
21	.6313913	.6856857	.7359220	.7816094	.8232654	.8577115	.8879910	.9133347
22	.5223136	.5808310	.6374661	.6510504	.7407054	.7857793	.8258624	.8607836
23	.4110583	.4784516	.5279316	.5875543	.6436422	.6966512	.7457840	.7908855
24	.3044968	.3687199	.4195848	.4779514	.5366041	.5943189	.6499392	.7024409

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

N	.41	.42	.43	.44	.45	.46	.47	.48
25	.8107185	.8658042	.9160000	.9703057	.9871334	.9853539	.9537627	.9011509
26	.1463372	.1036910	.2283547	.2781943	.3838357	.3776804	.4345411	.4986927
27	.0921736	.1194116	.1517131	.1891770	.2316894	.2769030	.3302356	.3948763
28	.0545346	.0731844	.0961569	.1239491	.1567860	.1947593	.2377346	.2853535
29	.0308469	.0420503	.0579431	.0763593	.0990823	.1288010	.1615663	.2000482
30	.0156970	.0226335	.0319349	.0441249	.0597451	.0793239	.1033374	.1381660
31	.0076088	.0113849	.0166612	.0236633	.0334735	.0460150	.0620870	.0820376
32	.0034378	.0053415	.0081124	.0120517	.0175256	.0249631	.0348485	.0477065
33	.0014454	.0023329	.0036766	.0056714	.0085549	.0126340	.0182781	.0259194
34	.0005643	.0009464	.0015501	.0024813	.0038645	.0059506	.0089870	.0131214
35	.0002041	.0003559	.0006056	.0010060	.0016363	.0026017	.0040491	.0061723
36	.0000688	.0001237	.0002188	.0003779	.0006379	.0010530	.0017009	.0026901
37	.0000210	.0000396	.0000729	.0001300	.0002295	.0003934	.0006997	.0010889
38	.0000060	.0000117	.0000233	.0000417	.0000759	.0001358	.0002564	.0004013
39	.0000015	.0000031	.0000063	.0000122	.0000230	.0000426	.0000770	.0001364
40	.0000004	.0000008	.0000016	.0000033	.0000064	.0000122	.0000230	.0000493
41	.0000001	.0000002	.0000004	.0000008	.0000016	.0000032	.0000062	.0000119
42			.0000001	.0000002	.0000004	.0000006	.0000015	.0000030
43					.0000001	.0000002	.0000003	.0000007
44							.0000001	.0000001

N	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	.9999998	.9999999
10	.9999988	.9999994
11	.9999946	.9999972
12	.9999791	.9999888
13	.9999267	.9999591
14	.9997601	.9998657
15	.9993387	.9995980
16	.9982450	.9989049
17	.9957650	.9972560
18	.9905788	.9934698
19	.9805296	.9864258
20	.9689483	.9738806
21	.9341178	.9500147
22	.8905895	.9155111
23	.8397585	.8641604
24	.7809841	.7949486
25	.6563777	.7064339
26	.5509378	.6080768
27	.4418402	.5000000
28	.3370809	.3919232
29	.2435057	.2915661
30	.1660505	.2050514
31	.1065164	.1358396
32	.0640781	.0854889
33	.0360459	.0491853
34	.0189060	.0267194
35	.0093803	.0135042
36	.0041689	.0063302
37	.0017411	.0027432
38	.0006698	.0010951
39	.0002363	.0004012
40	.0000768	.0001343
41	.0000283	.0000409
42	.0000059	.0000112
43	.0000014	.0000088
44	.0000003	.0000006
45	.0000001	.0000001

$$\text{Element} = \sum_{k=0}^{n} \binom{n}{k} p^k q^{n-k}$$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.4188356	.6641015	.8069483	.8896819	.9373276	.9646081	.9801354	.9892199
2	.1018337	.3239876	.4845320	.6414663	.7593070	.8426189	.8993956	.9368918
3	.0169800	.0937315	.2202837	.3673949	.5107752	.6362755	.7383499	.8170007
4	.0021237	.0229139	.0786247	.1694545	.3041357	.4079806	.5088401	.6162954
5	.0003104	.0044868	.0227644	.0642986	.1320487	.2321877	.3366085	.4359463
6	.0000171	.0007262	.0054880	.0204836	.0520028	.1035963	.1748323	.2617333
7	.0000012	.0000994	.0011244	.0055744	.0175972	.0417774	.0815396	.1380155
8	.0000001	.0000117	.0001989	.0013146	.0051801	.0147199	.0333889	.0642458
9		.0000012	.0000308	.0002710	.0013406	.0045733	.0120964	.0265598
10		.0000001	.0000042	.0000498	.0003078	.0013631	.0039050	.0098095
11			.0000005	.0000081	.0000632	.0003123	.0011306	.0032583
12			.0000001	.0000012	.0000117	.0000695	.0002951	.0009756
13				.0000002	.0000019	.0000140	.0000698	.0002653
14					.0000003	.0000026	.0000150	.0000657
15						.0000004	.0000030	.0000149
16						.0000001	.0000005	.0000031
17							.0000001	.0000006
18								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9930591	.9966184	.9981505	.9988953	.9994579	.9997091	.9998456	.9999185
2	.9610684	.9763303	.9858064	.9915965	.9950842	.9971573	.9983744	.9990802
3	.8751062	.9165933	.9453763	.9744603	.9777650	.9861466	.9914941	.9944498
4	.7377528	.8015415	.8587619	.9016654	.9389071	.9550776	.9764485	.9868021
5	.5419417	.6385589	.7229712	.7917925	.8474466	.8905915	.9230960	.9469605
6	.3581785	.4574544	.5535742	.6419658	.7197463	.7856140	.8395327	.8834479
7	.2097436	.2931242	.3832990	.4751134	.5639187	.6460509	.7191038	.7818395
8	.1090822	.1679203	.2378881	.3190956	.4043209	.4902595	.5733935	.6505633
9	.0505935	.0861930	.1342006	.1941040	.2640692	.3410614	.4228860	.5036588
10	.0210270	.0397752	.0680053	.1069867	.1570160	.2173887	.2860110	.3606408
11	.0078694	.0165679	.0311887	.0535316	.0850380	.1264716	.1777936	.2380539
12	.0026639	.0062535	.0129873	.0243731	.0420070	.0673340	.1014032	.1446544
13	.0008191	.0021468	.0049262	.0101853	.0189697	.0308384	.0530981	.0809055
14	.0002296	.0006736	.0017073	.0038483	.0078483	.0136954	.0255577	.0416754
15	.0000589	.0001929	.0005423	.0013415	.0029815	.0050450	.0113846	.0197919
16	.0000139	.0000508	.0001582	.0004099	.0010422	.0022909	.0046266	.0086768
17	.0000030	.0000123	.0000425	.0001270	.0003359	.0008010	.0017456	.0035158
18	.0000006	.0000028	.0000105	.0000346	.0001000	.0002588	.0006091	.0013185
19	.0000001	.0000006	.0000024	.0000087	.0000275	.0000774	.0001968	.0004588
20		.0000001	.0000005	.0000020	.0000070	.0000215	.0000590	.0001477
21			.0000001	.0000004	.0000017	.0000055	.0000164	.0000443
22				.0000001	.0000004	.0000013	.0000048	.0000123
23					.0000001	.0000003	.0000010	.0000032
24						.0000001	.0000002	.0000008
25								.0000002

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999573	.9999778	.9999886	.9999942	.9999970	.9999985	.9999993	.9999996
2	.9994853	.9997149	.9998437	.9999152	.9999545	.9999758	.9999873	.9999934
3	.9969330	.9981856	.9990435	.9995924	.9998548	.9999063	.9999536	.9999811
4	.9878271	.9923666	.9958833	.9971267	.9992739	.9989771	.9994019	.9996548
5	.9640754	.9760806	.9843361	.9899048	.9935937	.9959055	.9975335	.9985036
6	.9154211	.9403308	.9586578	.9718501	.9811527	.9875858	.9919534	.9948639
7	.8340409	.8762438	.9094676	.9349883	.9541447	.9682147	.9783380	.9854797
8	.7197445	.7797759	.8303467	.8717967	.9049148	.9307498	.9504595	.9651590
9	.5822101	.6553688	.7213113	.7780340	.8280302	.8686684	.9015170	.9274589
10	.4388316	.5157902	.5905885	.6603901	.7235756	.7791723	.8266074	.8666094
11	.3055285	.3779137	.4526033	.5269719	.5986043	.6655810	.7361861	.7801774
12	.1968080	.2568514	.3231357	.3935537	.4657648	.5374268	.6064082	.6709140
13	.1170140	.1616356	.2143137	.2740333	.3393118	.4079033	.4777779	.5473168
14	.0642135	.0940931	.1318446	.1774975	.2305367	.3098761	.3540439	.4242176
15	.0325407	.0506777	.0751925	.1068196	.1459173	.1923847	.2456304	.3045996
16	.0153480	.0252644	.0397558	.0597009	.0859410	.1190570	.1592751	.2063950
17	.0066057	.0116667	.0194945	.0309880	.0470799	.0686456	.0964011	.1308032
18	.0026517	.0049947	.0088710	.0149425	.0239888	.0360634	.0544211	.0774443
19	.0009870	.0019841	.0037487	.0066970	.0113716	.0184353	.0288455	.0430079
20	.0003410	.0007320	.0014721	.0027913	.0050167	.0085876	.0140575	.0230836
21	.0001094	.0002510	.0005376	.0010824	.0020605	.0037369	.0064320	.0106307
22	.0000327	.0000800	.0001836	.0003907	.0007882	.0013073	.0023442	.0040750
23	.0000091	.0000238	.0000578	.0001314	.0002809	.0004582	.0008210	.0014933
24	.0000033	.0000066	.0000170	.0000411	.0000933	.0001997	.0002892	.0005287
25	.0000006	.0000017	.0000047	.0000120	.0000289	.0000654	.0001408	.0002856
26	.0000001	.0000004	.0000012	.0000033	.0000083	.0000200	.0000453	.0000978
27		.0000001	.0000003	.0000008	.0000022	.0000057	.0000136	.0000309
28			.0000001	.0000002	.0000006	.0000015	.0000038	.0000091
29					.0000001	.0000004	.0000010	.0000025
30						.0000001	.0000003	.0000006
31							.0000001	.0000002

N	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999966	.9999983	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000
3	.9999881	.9999929	.9999960	.9999979	.9999988	.9999994	.9999997	.9999998
4	.9998035	.9998896	.9999387	.9999664	.9999819	.9999903	.9999949	.9999974
5	.9991039	.9994712	.9996923	.9998335	.9999001	.9999441	.9999693	.9999834
6	.9967719	.9980014	.9987810	.9993674	.9995662	.9997468	.9998544	.9999175
7	.9904236	.9937841	.9960283	.9975014	.9984532	.9990558	.9994327	.9996443
8	.9754132	.9836834	.9890470	.9937922	.9953383	.9970249	.9981338	.9988474
9	.9474970	.9626498	.9738768	.9820328	.9876455	.9919115	.9947045	.9965888
10	.8990842	.9249854	.9451990	.9604469	.9738158	.9807108	.9869308	.9911564
11	.8264650	.8654350	.8974682	.9232815	.9434879	.9591094	.9709104	.9796534

N	.25	.26	.27	.28	.29	.30	.31	.32
12	.7396394	.7817435	.8268547	.8650043	.8965533	.9220764	.9423015	.9579972
13	.6134867	.6783729	.7338630	.7830776	.8278094	.8686924	.9062435	.9314824
14	.4894375	.5567643	.6214287	.6819491	.7378051	.7886478	.8349001	.8765657
15	.3678539	.4336919	.5008931	.5688639	.6367690	.7036389	.7414887	.7894558
16	.2597795	.3181010	.3808169	.4454792	.5106619	.5746216	.6360450	.6934491
17	.1719691	.2196065	.2711042	.3313646	.3930739	.4556701	.5206305	.5833074
18	.1065417	.1480673	.1840525	.2281669	.2805151	.3436701	.4047400	.4674604
19	.0617118	.0960583	.1163408	.1524700	.1952775	.2440943	.2977056	.3553974
20	.0333988	.0587681	.0689025	.0944407	.1258193	.1632357	.2066597	.2554775
21	.0160819	.0336337	.0381991	.0546763	.0759570	.1035918	.1349572	.1731904
22	.0070684	.0157908	.0190033	.0266395	.0429830	.0605183	.0820493	.1104955
23	.0035116	.0059168	.0075997	.0150347	.0287866	.0334618	.0477331	.0668401
24	.0014447	.0035565	.0043495	.0071325	.0113000	.0173114	.0257887	.0372021
25	.0005540	.0010916	.0018412	.0031632	.0054490	.0084084	.0130446	.0196586
26	.0001988	.0003886	.0007080	.0013100	.0025748	.0040103	.0061771	.0097068
27	.0000668	.0001366	.0002607	.0005073	.0009817	.0016158	.0025156	.0040064
28	.0000207	.0000448	.0000906	.0001833	.0003488	.0006396	.0011188	.0019387
29	.0000060	.0000137	.0000297	.0000610	.0001230	.0002374	.0004376	.0007826
30	.0000016	.0000039	.0000089	.0000194	.0000406	.0000815	.0001578	.0002938
31	.0000004	.0000010	.0000025	.0000057	.0000134	.0000269	.0000530	.0001036
32	.0000001	.0000003	.0000006	.0000015	.0000036	.0000070	.0000139	.0000279
33		.0000001	.0000002	.0000004	.0000009	.0000022	.0000048	.0000103
34				.0000001	.0000002	.0000006	.0000013	.0000039
35					.0000001	.0000001	.0000003	.0000008
36							.0000001	.0000002

N	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999986	.9999993	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000
5	.9999941	.9999953	.9999976	.9999988	.9999994	.9999997	.9999998	.9999999
6	.9999539	.9999746	.9999863	.9999927	.9999961	.9999980	.9999990	.9999995
7	.9998044	.9998877	.9999366	.9999647	.9999807	.9999896	.9999945	.9999971
8	.9993993	.9995807	.9997531	.9998569	.9999183	.9999512	.9999747	.9999863
9	.9978379	.9986516	.9991726	.9995005	.9997033	.9998267	.9999004	.9999437
10	.9941589	.9968053	.9985750	.9994758	.9998373	.9999477	.9999788	.9999908
11	.9860046	.9905339	.9937040	.9958883	.9979519	.9991257	.9996592	.9998641
12	.9699394	.9788478	.9893665	.9900467	.9953444	.9956849	.9987751	.9995049
13	.9416055	.9572758	.9698793	.9798844	.9894505	.9929935	.9970818	.9984755
14	.8964650	.9311781	.9412931	.9564087	.9689078	.9779485	.9896389	.9944708
15	.8313862	.8672061	.9071615	.9216961	.9413838	.9568669	.9768019	.9877054
16	.7459071	.7927962	.8337908	.8688771	.8983776	.9334111	.9418017	.9571884
17	.6433844	.6993611	.7566213	.7964574	.8365689	.8700357	.8997737	.9234802
18	.5303003	.5991691	.6505145	.7054002	.7655503	.8004134	.8396830	.8733466
19	.4159109	.4778375	.5397126	.6001154	.6577596	.7115685	.7607090	.8044650
20	.3091595	.3666316	.4266676	.4870039	.5489310	.6083870	.6650419	.7170641
21	.2171461	.2663778	.3201445	.3774457	.4370795	.4977302	.5580045	.6166196
22	.1437709	.1807606	.2270783	.2760490	.3307333	.3879030	.4478071	.5073399
23	.0895608	.1181473	.1533708	.1919721	.2370286	.2869423	.3406505	.3980602
24	.0534133	.0718369	.0960780	.1255460	.1604690	.2000495	.2464329	.2966994
25	.0287786	.0410817	.0569952	.0772833	.1083914	.1326927	.1663784	.2094164
26	.0146101	.0219724	.0317417	.0447060	.0614604	.0835645	.1084940	.1395000
27	.0071368	.0110267	.0165746	.0242669	.0346478	.0482957	.0657895	.0877678
28	.0033165	.0051793	.0081059	.0123440	.0183175	.0265143	.0374755	.0517710
29	.0013549	.0022745	.0037077	.0058770	.0090690	.0136410	.0200195	.0286945
30	.0005388	.0009329	.0015847	.0026155	.0041996	.0065674	.0100137	.0149016
31	.0001954	.0003570	.0006321	.0010868	.0018163	.0029545	.0046827	.0072169
32	.0000668	.0001313	.0002350	.0004210	.0007327	.0012401	.0020440	.0033039
33	.0000218	.0000472	.0000815	.0001518	.0002752	.0004849	.0008315	.0013859
34	.0000063	.0000170	.0000361	.0000595	.0001041	.0001761	.0003146	.0005466
35	.0000017	.0000059	.0000078	.0000158	.0000312	.0000595	.0001106	.0001998
36	.0000004	.0000010	.0000022	.0000046	.0000094	.0000186	.0000360	.0000677
37	.0000001	.0000002	.0000005	.0000012	.0000026	.0000054	.0000108	.0000212
38		.0000001	.0000001	.0000003	.0000007	.0000014	.0000030	.0000061
39				.0000001	.0000002	.0000004	.0000008	.0000016
40						.0000001	.0000002	.0000004
41								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999985	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
8	.9999947	.9999981	.9999990	.9999995	.9999998	.9999999	.9999999	.9999999
9	.9999807	.9999939	.9999978	.9999992	.9999997	.9999999	.9999999	.9999999
10	.9999838	.9999340	.9999832	.9999949	.9999982	.9999993	.9999997	.9999999
11	.9996183	.9997747	.9998694	.9999257	.9999585	.9999772	.9999877	.9999935
12	.9988798	.9993132	.9995864	.9997554	.9998580	.9999191	.9999548	.9999758
13	.9970418	.9981157	.9988214	.9992761	.9995435	.9997417	.9998501	.9999146
14	.9929132	.9953140	.9969569	.9980594	.9987851	.9992535	.9995900	.9997340
15	.9845185	.9893730	.9938377	.9952596	.9969198	.9980356	.9987708	.9993456
16	.9689450	.9779003	.9845310	.9893934	.9926500	.9952669	.9969881	.9980434
17	.9435758	.9576501	.9693134	.9781586	.9847337	.9895242	.9929449	.9953384
18	.9016155	.9248718	.9436185	.9584260	.9698899	.9785855	.9850493	.9897570
19	.8431064	.8760811	.9037740	.9265508	.9449253	.9594316	.9706569	.9791648
20	.7660685	.8091378	.8468417	.8791155	.9063243	.9285165	.9464748	.9606447
21	.6783886	.7243045	.7716346	.8138813	.8508114	.8824300	.9089453	.9307843
22	.5869765	.6346448	.6798081	.7306963	.7774074	.8188681	.8550629	.8860081

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 54$$

x	.41	.43	.45	.44	.45	.46	.47	.48
33	.45710400	.51681090	.57588650	.63309860	.68732800	.73766501	.78333891	.82409344
34	.35087510	.40776720	.46681860	.52617670	.58477180	.64133917	.69493010	.74455750
35	.25539410	.30616000	.36054120	.41766980	.47639580	.53547780	.59366450	.64977010
36	.17601100	.21769460	.26431380	.31536330	.36998760	.42872100	.48587580	.54475270
37	.11463807	.14624110	.18337900	.22570460	.27200580	.32043400	.37285010	.43666080
38	.06996660	.09283825	.11800470	.15264490	.19049370	.23344650	.28012090	.33318440
39	.04033040	.05511400	.07397690	.09729880	.12542020	.15881800	.19734640	.24099140
40	.02164690	.03076850	.04201740	.05630800	.07780690	.10180750	.13070490	.16474940
41	.01092440	.01610930	.02388890	.03077840	.04582950	.06133710	.08144330	.10600980
42	.00514770	.00787970	.01170830	.01724880	.03470820	.03446460	.04668280	.06410340
43	.00226830	.00359650	.00548780	.01859170	.01830840	.01803080	.02600660	.03637780
44	.00092550	.00150870	.00244540	.00380490	.00590610	.00908500	.01338200	.01928650
45	.00035190	.00060390	.00101100	.00165360	.00264790	.00414880	.00634170	.00958090
46	.00012890	.00022810	.00039510	.00066460	.00110780	.00176840	.00280040	.00436160
47	.00004404	.00007749	.00013560	.00023960	.00041330	.00069680	.00114900	.00185440
48	.00001401	.00002334	.00004410	.00008090	.00014500	.00025390	.00043460	.00073080
49	.00000434	.00000687	.00001330	.00002510	.00004600	.00008280	.00015150	.00026350
50	.00000128	.00000200	.00000378	.00000730	.00001390	.00002560	.00004840	.00008750
51	.00000035	.00000054	.00000099	.00000190	.00000370	.00000714	.00001411	.00002865
52		.00000014	.00000025	.00000049	.00000097	.00000194	.00000387	.00000773
53			.00000006	.00000012	.00000024	.00000050	.00000100	.00000210
54						.00000013	.00000026	.00000054
55								.00000014

x	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	.99999999	.99999999
10	.99999993	.99999996
11	.99999967	.99999983
12	.99999867	.99999930
13	.99999584	.99999740
14	.99998788	.99999184
15	.99995460	.99997389
16	.99987779	.99992519
17	.99969791	.99980809
18	.99931160	.99954113
19	.99854865	.99900828
20	.99715974	.99798882
21	.99482447	.99600476
22	.99119184	.99331689
23	.98566657	.98898350
24	.97895036	.98235545
25	.97027548	.97314913
26	.96026034	.96088554
27	.94958981	.94403064
28	.93863004	.92459616
29	.92693288	.90173446
30	.91404036	.87483087
31	.89966881	.84704455
32	.88407788	.81816428
33	.86707816	.78660371
34	.84873049	.75179524
35	.82899667	.71401110
36	.80664437	.67299178
37	.78239304	.62945367
38	.75611947	.58171911
39	.72804487	.53007481
40	.69815547	.47502677
41	.66640487	.41760876
42	.63266139	.35860860
43	.59690036	.29870070
44	.55908006	.23880017
45	.51923092	.17990004
46		.12300001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.4846453	.6708195	.8127398	.8940947	.9404614	.9667316	.9815359	.9899063
2	.1050037	.3013311	.4942045	.6513950	.7681130	.8499383	.9030473	.9410540
3	.0178288	.0977355	.2282111	.3783578	.5231968	.6486562	.7496231	.8265920
4	.0022725	.0243302	.0826745	.1773721	.2954677	.4216784	.5429478	.6507519
5	.0002395	.0048554	.0244402	.0685048	.1296530	.2333358	.3607172	.4757960
6	.0000190	.0008014	.0060063	.0222362	.0560051	.1107114	.1854562	.2756705
7	.0000013	.0001120	.0012553	.0061708	.0193175	.0454066	.0880703	.1479129
8	.0000001	.0000135	.0002267	.0014850	.0058010	.0163434	.0367595	.0701474
9		.0000014	.0000368	.0003136	.0015326	.0051821	.0135868	.0295741
10		.0000001	.0000050	.0000587	.0003994	.0014617	.0044784	.0111495
11			.0000006	.0000098	.0000754	.0003694	.0013247	.0037797
12			.0000001	.0000015	.0000142	.0000841	.0003536	.0011580
13				.0000002	.0000024	.0000174	.0000856	.0003221
14					.0000004	.0000033	.0000189	.0000817
15					.0000001	.0000006	.0000038	.0000189
16						.0000001	.0000007	.0000040
17							.0000001	.0000008
18								.0000001

n \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9944117	.9969567	.9983539	.9991158	.9995284	.9997503	.9998688	.9999316
2	.9640141	.9783591	.9871643	.9924844	.9956528	.9975146	.9985950	.9992145
3	.8828422	.9225631	.9498236	.9680686	.9800165	.9876081	.9925261	.9955267
4	.7410146	.8130466	.8682895	.9092488	.9367391	.9594273	.9736053	.9831169
5	.5586647	.6548517	.7372852	.8049772	.8585566	.8996195	.9301980	.9523079
6	.3747117	.4755642	.5721315	.6599450	.7363473	.8003108	.8520672	.8926857
7	.2231022	.3095572	.4020293	.4951357	.5841711	.6655897	.7371676	.7979209
8	.1181417	.1804407	.2548623	.3378177	.4249983	.5120703	.5952329	.6715675
9	.0558575	.0943630	.1457272	.2091030	.2822916	.3621211	.4449491	.5271635
10	.0236887	.0444169	.0752867	.1174425	.1709330	.2346449	.3064522	.3835237
11	.0090536	.0188886	.0352385	.0599464	.0943899	.1391060	.1940254	.2576670
12	.0031324	.0072849	.0149894	.0278721	.0476003	.0756140	.1128616	.1595983
13	.0009851	.0025575	.0058129	.0118350	.0219646	.0376679	.0603439	.0911053
14	.0002827	.0008201	.0020614	.0046015	.0092941	.0172354	.0296887	.0479522
15	.0000742	.0002409	.0006703	.0016423	.0036142	.0072567	.0134595	.0232933
16	.0000179	.0000650	.0002004	.0005393	.0012944	.0028166	.0056313	.0104550
17	.0000040	.0000168	.0000552	.0001633	.0004277	.0010096	.0021777	.0043415
18	.0000008	.0000037	.0000140	.0000457	.0001307	.0003347	.0007795	.0016701
19	.0000002	.0000008	.0000033	.0000118	.0000370	.0001028	.0002587	.0005959
20		.0000002	.0000007	.0000028	.0000097	.0000293	.0000796	.0001974
21			.0000001	.0000006	.0000024	.0000078	.0000208	.0000606
22				.0000001	.0000005	.0000019	.0000051	.0000174
23					.0000001	.0000004	.0000015	.0000046
24						.0000001	.0000003	.0000012
25							.0000001	.0000003
26								.0000001

n \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999646	.9999818	.9999907	.9999953	.9999977	.9999988	.9999994	.9999997
2	.9995655	.9997622	.9998713	.9999310	.9999634	.9999808	.9999900	.9999949
3	.9973587	.9984609	.9991145	.9994970	.9997177	.9998435	.9999143	.9999530
4	.9903735	.9934140	.9959786	.9975798	.9985639	.9991595	.9995148	.9997236
5	.9681115	.9790121	.9864160	.9913492	.9945765	.9966514	.9979632	.9987793
6	.9236920	.9467658	.9635367	.9754610	.9837653	.9894359	.9932361	.9957372
7	.8478756	.8877787	.9188137	.9423606	.9598163	.9724763	.9814693	.9877359
8	.7391749	.7971399	.8453797	.8844350	.9152531	.9389921	.9568662	.9700360
9	.6055909	.6777621	.7420280	.7975466	.8441775	.8823263	.9127722	.9365069
10	.4627079	.5409143	.6154258	.6841089	.7455115	.7988614	.8439906	.8812134
11	.3280881	.4027314	.4788205	.5536556	.6248641	.6905711	.7494830	.8008923
12	.2152905	.2766426	.3477346	.4202374	.4936653	.5656207	.6339985	.6971281
13	.1305790	.1787662	.2349899	.2979374	.3657880	.4363985	.5075155	.5769801
14	.0731888	.1062481	.1475137	.1968047	.2533505	.3158421	.3825487	.4514014
15	.0379249	.0584923	.0859564	.1209552	.1636853	.2138328	.2705555	.3325879
16	.0181828	.0298388	.0464888	.0691247	.0985361	.1351897	.1791358	.2299641
17	.0080739	.0141143	.0233442	.0367306	.0552407	.0797363	.1108621	.1489452
18	.0033239	.0061957	.0108895	.0181516	.0288380	.0438547	.0640765	.0902505
19	.0012700	.0025260	.0047219	.0083461	.0140212	.0224893	.0345739	.0511206
20	.0004508	.0009574	.0019046	.0035723	.0063513	.0107541	.0174127	.0270574
21	.0001488	.0003376	.0007151	.0014241	.0026813	.0047963	.0081858	.0133794
22	.0000457	.0001108	.0002501	.0005291	.0010554	.0019956	.0035924	.0061804
23	.0000131	.0000339	.0000815	.0001832	.0003875	.0007748	.0014719	.0026670
24	.0000035	.0000097	.0000248	.0000592	.0001327	.0002808	.0005631	.0010751
25	.0000009	.0000026	.0000070	.0000178	.0000424	.0000950	.0002012	.0004049
26	.0000002	.0000006	.0000019	.0000050	.0000126	.0000300	.0000671	.0001424
27		.0000001	.0000005	.0000013	.0000035	.0000088	.0000209	.0000460
28			.0000001	.0000003	.0000009	.0000024	.0000061	.0000144
29				.0000001	.0000003	.0000006	.0000016	.0000041
30					.0000001	.0000001	.0000004	.0000011
31							.0000001	.0000003
32								.0000001

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999974	.9999987	.9999994	.9999997	.9999998	.9999999	1.0000000	1.0000000
3	.9999752	.9999869	.9999932	.9999965	.9999982	.9999991	.9999996	.9999998
4	.9998443	.9999138	.9999528	.9999745	.9999864	.9999929	.9999963	.9999981
5	.9992188	.9995800	.9997589	.9998635	.9999238	.9999581	.9999773	.9999870
6	.9973549	.9983836	.9990271	.9994231	.9996630	.9998000	.9998900	.9999386
7	.9920106	.9946806	.9967716	.9979959	.9987753	.9992631	.9995634	.9997453
8	.9795408	.9862652	.9909319	.9941108	.9962370	.9976342	.9985363	.9991088
9	.9546010	.9681089	.9779728	.9850454	.9900166	.9934456	.9957675	.9973115

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 55

c	.25	.26	.27	.28	.29	.30	.31	.32
10	.9111874	.9347781	.9529420	.9666349	.9767484	.9840710	.9892713	.9928947
11	.8446198	.8809181	.9103555	.9337006	.9518190	.9655098	.9758457	.9833337
12	.7530458	.8035025	.8459189	.8813052	.9101636	.9331877	.9511703	.9649273
13	.6428999	.7037690	.7585322	.8065931	.8477784	.8822701	.9105314	.9331674
14	.5205748	.5870625	.6516239	.7104891	.7634940	.8100903	.8501146	.8837310
15	.3982498	.4656907	.5329997	.5983676	.6603161	.7172876	.7686967	.8139386
16	.2867981	.3483618	.4130755	.4791869	.5449132	.6085758	.6687140	.7241663
17	.1919217	.2453026	.3021867	.3633167	.4271744	.4920989	.5564145	.6185518
18	.1220985	.1622327	.2080965	.2599423	.3168492	.3775797	.4406685	.5045321
19	.0729193	.1006162	.1346308	.1750731	.2217174	.2739670	.3308869	.3912576
20	.0404766	.0584576	.0817130	.1108009	.1460492	.1874933	.2348384	.2874519
21	.0210110	.0317951	.0464841	.0658103	.0904171	.1207850	.1571645	.1995223
22	.0101968	.0161819	.0247676	.0366498	.0525454	.0731362	.0990028	.1305579
23	.0046258	.0077040	.0123544	.0191240	.0286393	.0415766	.0586191	.0804020
24	.0019614	.0034302	.0057670	.0093451	.0146293	.0221704	.0325873	.0465371
25	.0007773	.0014281	.0025184	.0042746	.0069995	.0110811	.0169934	.0252886
26	.0002878	.0005558	.0010285	.0018295	.0031352	.0051880	.0083060	.0128895
27	.0000996	.0002021	.0003927	.0007323	.0013140	.0022738	.0038025	.0061569
28	.0000322	.0000687	.0001401	.0002740	.0005150	.0009323	.0016293	.0027539
29	.0000097	.0000219	.0000467	.0000958	.0001886	.0003574	.0006529	.0011526
30	.0000027	.0000065	.0000145	.0000313	.0000645	.0001280	.0002445	.0004509
31	.0000007	.0000018	.0000042	.0000095	.0000206	.0000428	.0000855	.0001648
32	.0000003	.0000005	.0000011	.0000027	.0000061	.0000133	.0000279	.0000562
33		.0000001	.0000003	.0000007	.0000017	.0000039	.0000085	.0000178
34			.0000001	.0000002	.0000004	.0000010	.0000024	.0000053
35					.0000001	.0000003	.0000006	.0000015
36						.0000001	.0000002	.0000004
37								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999990	.9999995	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000
5	.9999936	.9999967	.9999983	.9999991	.9999996	.9999998	.9999999	1.0000000
6	.9999663	.9999817	.9999902	.9999949	.9999973	.9999986	.9999993	.9999997
7	.9998537	.9999173	.9999540	.9999748	.9999864	.9999932	.9999968	.9999985
8	.9994660	.9996851	.9998173	.9998957	.9999414	.9999676	.9999824	.9999906
9	.9983203	.9989675	.9993758	.9996268	.9997829	.9998751	.9999294	.9999607
10	.9953729	.9970370	.9981342	.9988447	.9992967	.9995790	.9997523	.9998568
11	.9886955	.9924622	.9950589	.9968160	.9979831	.9987443	.9992316	.9995380
12	.9752409	.9828211	.9884846	.9921475	.9948272	.9966512	.9978697	.9986685
13	.9509423	.9646101	.9744098	.9825189	.9880310	.9919475	.9946770	.9965432
14	.9113560	.9335793	.9510884	.9646040	.9748288	.9824116	.9879253	.9918567
15	.8528628	.8856225	.9126076	.9343726	.9515677	.9648779	.9749753	.9824836
16	.7741152	.8180956	.8559718	.8878920	.9142269	.9355043	.9523445	.9654036
17	.6771499	.7311290	.7797313	.8225285	.8594011	.8904963	.9161725	.9369371
18	.5675850	.6283504	.6855519	.7381808	.7855321	.8272119	.8631178	.8934040
19	.4536594	.5165743	.5784938	.6380179	.6939451	.7453277	.7915084	.8321857
20	.3443875	.4044416	.4662334	.5283000	.5891976	.6475949	.7023520	.7525765
21	.2475105	.3004641	.3574276	.4172106	.4784646	.5397737	.5997491	.6571174
22	.1679847	.2111905	.2597814	.3130643	.3700751	.4296336	.4904181	.5510516
23	.1074501	.1401158	.1785234	.2225280	.2716956	.3253074	.3823906	.4417721
24	.0646713	.0875824	.1157455	.1494594	.1887962	.2335648	.2832948	.3372437
25	.0365777	.0514989	.0706742	.0946579	.1238802	.1585923	.1988197	.2443296
26	.0194197	.0284491	.0405804	.0564331	.0766048	.1016132	.1318489	.1675205
27	.0096686	.0147483	.0218831	.0316249	.0445685	.0613178	.0824443	.1084367
28	.0045100	.0071674	.0110695	.0166362	.0243597	.0347912	.0485180	.0661297
29	.0019693	.0033621	.0052468	.0082051	.0124911	.0185330	.0268273	.0379251
30	.0008041	.0013890	.0023278	.0037897	.0060014	.0092555	.0139160	.0204187
31	.0003068	.0005528	.0009655	.0015371	.0026961	.0043274	.0067618	.0103040
32	.0001092	.0002054	.0003740	.0006607	.0011332	.0018916	.0030731	.0048659
33	.0000363	.0000711	.0001351	.0002487	.0004445	.0007719	.0013044	.0021469
34	.0000112	.0000239	.0000455	.0000872	.0001624	.0002936	.0005162	.0008835
35	.0000032	.0000069	.0000142	.0000285	.0000552	.0001039	.0001901	.0003385
36	.0000009	.0000019	.0000041	.0000086	.0000174	.0000342	.0000651	.0001205
37	.0000002	.0000005	.0000011	.0000024	.0000051	.0000104	.0000206	.0000398
38		.0000001	.0000003	.0000006	.0000014	.0000029	.0000061	.0000122
39			.0000001	.0000001	.0000003	.0000008	.0000016	.0000034
40					.0000001	.0000002	.0000004	.0000009
41							.0000001	.0000002

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999990	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999951	.9999975	.9999987	.9999994	.9999997	.9999998	.9999999	1.0000000
9	.9999786	.9999895	.9999949	.9999974	.9999988	.9999995	.9999998	.9999999
10	.9999186	.9999546	.9999751	.9999866	.9999939	.9999973	.9999989	.9999996
11	.9997271	.9998416	.9999098	.9999495	.9999723	.9999851	.9999931	.9999969
12	.9991825	.9995071	.9997081	.9998303	.9999032	.9999458	.9999703	.9999840
13	.9977950	.9986187	.9991504	.9996870	.9998961	.9998233	.9998993	.9999437
14	.9946057	.9964903	.9977586	.9985947	.9991354	.9994781	.9996910	.9998207
15	.9879568	.9918683	.9946089	.9964915	.9977591	.9985958	.9991370	.9994800
16	.9753276	.9827109	.9881143	.9919745	.9946814	.9965416	.9977941	.9986804
17	.9533872	.9661552	.9758655	.9831019	.9883860	.9921668	.9948170	.9966368
18	.9184093	.9386387	.9546673	.9671088	.9765696	.9836173	.9887603	.9934361
19	.8670952	.8965732	.9209071	.9405806	.9561594	.9682424	.9774213	.9848501
20	.7976541	.8372540	.8713111	.8999504	.9236398	.9427374	.9578400	.9695353

$$P(\geq r;n,p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 55

x	.41	.42	.43	.44	.45	.46	.47	.48
21	.7107938	.7599345	.8039650	.8425844	.8757472	.9036898	.9265038	.9450861
22	.6101930	.6666179	.7192901	.7674097	.8104392	.8481066	.8803076	.9074719
23	.5021517	.5621851	.6205702	.6761282	.7278597	.7750104	.8170757	.8538125
24	.3944289	.4536816	.5137178	.5732197	.6309185	.6856706	.7365206	.7827451
25	.2946180	.3489195	.4062405	.4654189	.5251644	.5841982	.6412731	.6952777
26	.2086114	.2548504	.3057021	.3603782	.4178721	.4770133	.5365367	.5951610
27	.1396491	.1762516	.2181889	.2651544	.3165822	.3716607	.4293682	.4885279
28	.0881764	.1151191	.1472799	.1847937	.2275699	.2752680	.3292922	.3828062
29	.0524071	.0708508	.0937871	.1216531	.1547416	.1931558	.2367719	.2852170
30	.0292648	.0410052	.0562160	.0754640	.0992642	.1280323	.1620351	.2013472
31	.0153271	.0222745	.0316519	.0440114	.0599258	.0799535	.1045963	.1348513
32	.0075162	.0113361	.0167078	.0240818	.0339693	.0469244	.0635184	.0843040
33	.0034453	.0053955	.0082525	.0123376	.0180414	.0258225	.0361978	.0497251
34	.0014736	.0023972	.0038069	.0059062	.0089586	.0132940	.0193118	.0274706
35	.0005870	.0009923	.0016360	.0026365	.0041501	.0063883	.0096225	.0141910
36	.0003174	.0003819	.0006546	.0010950	.0017805	.0028587	.0044670	.0068318
37	.0000746	.0001364	.0002429	.0004222	.0007165	.0011003	.0019271	.0030578
38	.0000237	.0000451	.0000834	.0001507	.0000657	.0004576	.0007705	.0012669
39	.0000070	.0000137	.0000265	.0000497	.0000910	.0001628	.0002847	.0004867
40	.0000019	.0000039	.0000077	.0000151	.0000287	.0000533	.0000969	.0001720
41	.0000005	.0000010	.0000021	.0000042	.0000083	.0000160	.0000302	.0000558
42	.0000001	.0000002	.0000005	.0000011	.0000022	.0000044	.0000086	.0000165
43			.0000001	.0000002	.0000005	.0000011	.0000023	.0000045
44				.0000001	.0000001	.0000002	.0000005	.0000011
45						.0000001	.0000001	.0000002

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	.9999999	1.0000000
10	.9999995	.9999998
11	.9999979	.9999990
12	.9999916	.9999957
13	.9999693	.9999835
14	.9998980	.9999432
15	.9996929	.9998234
16	.9991543	.9994921
17	.9978606	.9986664
18	.9950089	.9967781
19	.9892249	.9927731
20	.9784030	.9849855
21	.9596876	.9709679
22	.9297183	.9476053
23	.8852185	.9114993
24	.8238748	.8596951
25	.7452907	.7906229
26	.6516678	.7049733
27	.5478776	.6061469
28	.4407711	.5000000
29	.3378647	.3938531
30	.2458126	.2950267
31	.1691627	.2093771
32	.1097723	.1403049
33	.0669763	.0885007
34	.0383185	.0523947
35	.0205024	.0290321
36	.0102320	.0150145
37	.0047499	.0072269
38	.0020453	.0032279
39	.0008143	.0013336
40	.0002987	.0005079
41	.0001006	.0001776
42	.0000310	.0000568
43	.0000087	.0000165
44	.0000022	.0000043
45	.0000005	.0000010
46	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 56$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.4303988	.6774031	.8183576	.8983309	.9434384	.9687277	.9828191	.9906218
2	.1082001	.3087209	.5037606	.6611029	.7767304	.8569459	.9104008	.9449542
3	.0187005	.1018074	.2361909	.3892793	.5354426	.6607331	.7605028	.8357490
4	.0024279	.0257983	.0872346	.1854115	.3068541	.4352971	.5574151	.6648191
5	.0002499	.0052449	.0261932	.0728595	.1474437	.2446358	.3548733	.4678781
6	.0000212	.0008825	.0065593	.0240870	.0601875	.1180692	.1963245	.2897750
7	.0000015	.0001258	.0013978	.0068134	.0211519	.0494001	.0948873	.1581335
8	.0000001	.0000154	.0002576	.0016724	.0064768	.0180920	.0403512	.0763686
9		.0000017	.0000416	.0003604	.0017460	.0058518	.0152009	.0328200
10		.0000002	.0000059	.0000689	.0004181	.0016850	.0051160	.0126235
11			.0000008	.0000118	.0000896	.0004349	.0015454	.0043692
12			.0000001	.0000018	.0000173	.0001012	.0004216	.0013677
13				.0000003	.0000030	.0000214	.0001044	.0003890
14					.0000005	.0000041	.0000235	.0001009
15					.0000001	.0000007	.0000049	.0000240
16						.0000001	.0000009	.0000052
17							.0000002	.0000010
18								.0000002

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9949147	.9972611	.9985350	.9992219	.9995897	.9997853	.9998885	.9999425
2	.9667499	.9802189	.9883952	.9932801	.9961566	.9978276	.9987861	.9993292
3	.8901477	.9281454	.9539311	.9709985	.9820492	.9890638	.9934365	.9961167
4	.7537791	.8239986	.8772582	.9163071	.9441051	.9633838	.9764435	.9851025
5	.5750762	.6706712	.7516957	.8174890	.8689803	.9079926	.9367096	.9573046
6	.3912675	.4934930	.5902984	.6773489	.7522345	.8142140	.8637869	.9022383
7	.2367470	.3261579	.4207406	.5149128	.6039540	.6944507	.7544026	.8130833
8	.1278881	.1933524	.2710507	.3566959	.4456907	.5335630	.6165231	.6917840
9	.0614630	.1029708	.1577321	.2245488	.3008434	.3831140	.4674917	.5502682
10	.0265839	.0494113	.0830352	.1284418	.1854096	.2524916	.3272268	.4065061
11	.0103708	.0214414	.0396438	.0668460	.1043405	.1525502	.2108894	.2778047
12	.0036653	.0084453	.0172168	.0317211	.0536829	.0845141	.1250362	.1752894
13	.0011784	.0030302	.0068223	.0137595	.0252972	.0429804	.0682215	.1020642
14	.0003459	.0009938	.0024740	.0054695	.0109412	.0200960	.0342870	.0548567
15	.0000930	.0002988	.0008234	.0019974	.0043526	.0086538	.0158939	.0272337
16	.0000230	.0000826	.0002521	.0006717	.0015959	.0034382	.0068056	.0125091
17	.0000052	.0000210	.0000712	.0002084	.0005404	.0012626	.0026958	.0053197
18	.0000011	.0000050	.0000186	.0000598	.0001693	.0004292	.0009893	.0020975
19	.0000002	.0000011	.0000045	.0000159	.0000491	.0001353	.0003360	.0007677
20		.0000002	.0000010	.0000039	.0000132	.0000396	.0001065	.0002611
21			.0000002	.0000009	.0000033	.0000106	.0000313	.0000826
22				.0000002	.0000008	.0000027	.0000086	.0000243
23					.0000002	.0000006	.0000022	.0000067
24						.0000001	.0000005	.0000017
25							.0000001	.0000004
26								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999706	.9999851	.9999925	.9999963	.9999982	.9999991	.9999996	.9999998
2	.9996334	.9998018	.9998940	.9999439	.9999706	.9999848	.9999922	.9999960
3	.9977339	.9986951	.9992503	.9995818	.9997693	.9998737	.9999317	.9999635
4	.9907310	.9943225	.9965744	.9979633	.9988062	.9993100	.9996067	.9997788
5	.9717261	.9816044	.9882329	.9925953	.9954139	.9972032	.9983201	.9990058
6	.9312433	.9525701	.9678838	.9786386	.9860357	.9910233	.9943833	.9964673
7	.8607644	.8883964	.9273111	.9489807	.9648456	.9762075	.9841757	.9896532
8	.7576540	.8134549	.8593321	.8960201	.9246114	.9463586	.9625249	.9742830
9	.6283002	.6992501	.7616648	.8149243	.8591034	.8947928	.9229138	.9445539
10	.4869980	.5655469	.6394002	.7067964	.7662313	.8172237	.8598104	.8944838
11	.3509734	.4276044	.5047755	.5797452	.6502000	.7143950	.7712198	.8201693
12	.2344661	.3009786	.3726409	.4469210	.5212170	.5931098	.6605599	.7220315
13	.1449800	.1967440	.2564114	.3223974	.3926422	.4648274	.5366066	.6058156
14	.0829451	.1193014	.1641342	.2170312	.2769624	.3423645	.4112911	.4816011
15	.0449198	.0670883	.0976523	.1361251	.1885150	.2352748	.2963216	.3611224
16	.0215389	.0349964	.0539876	.0794908	.1122174	.1524912	.2001654	.2545938
17	.0097924	.0169447	.0277417	.0432094	.0643327	.0919361	.1265653	.1683898
18	.0041314	.0076210	.0132559	.0228674	.0343825	.0517486	.0748372	.1043372
19	.0016192	.0031866	.0058938	.0103072	.0171327	.0271896	.0413595	.0605118
20	.0005901	.0012397	.0024399	.0045271	.0079620	.0133359	.0213598	.0338326
21	.0002002	.0004491	.0008411	.0015538	.0034520	.0061070	.0103080	.0166621
22	.0000632	.0001516	.0003384	.0007081	.0013969	.0026118	.0046469	.0077001
23	.0000186	.0000477	.0001335	.0002524	.0005277	.0010434	.0019596	.0035102
24	.0000051	.0000140	.0000455	.0000840	.0001862	.0003894	.0007721	.0014572
25	.0000013	.0000038	.0000104	.0000261	.0000614	.0001358	.0002844	.0005657
26	.0000003	.0000010	.0000028	.0000076	.0000189	.0000443	.0000979	.0002054
27	.0000001	.0000002	.0000007	.0000021	.0000054	.0000135	.0000315	.0000697
28		.0000001	.0000002	.0000005	.0000015	.0000038	.0000098	.0000221
29				.0000001	.0000004	.0000010	.0000027	.0000066
30					.0000001	.0000003	.0000007	.0000018
31						.0000001	.0000002	.0000005
38								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999980	.9999990	.9999995	.9999998	.9999999	.9999999	1.0000000	1.0000000
3	.9999808	.9999900	.9999948	.9999974	.9999987	.9999993	.9999997	.9999998
4	.9998773	.9999328	.9999637	.9999807	.9999898	.9999947	.9999973	.9999986
5	.9994202	.9996668	.9998112	.9998945	.9999420	.9999685	.9999832	.9999911
6	.9978358	.9986947	.9992847	.9995464	.9997386	.9998517	.9999171	.9999543
7	.9933467	.9957914	.9973805	.9983955	.9990327	.9994260	.9996647	.9998072
8	.9846582	.9905052	.9945086	.9969731	.9986288	.9993547	.9997133	
9	.9688359	.9798251	.9874717	.9918206	.9947021	.9966358	.9979867	

$$P(c,n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 10

x \ p	.25	.26	.27	.28	.29	.30	.31	.32
10	.9220408	.9434426	.9597003	.9717899	.9805962	.9868834	.9913851	.9943061
11	.8613617	.8949217	.9218539	.9429222	.9590485	.9711342	.9800076	.9863932
12	.7765393	.8236306	.8633168	.8959759	.9222437	.9429084	.9588197	.9708174
13	.6706363	.7296997	.7821266	.8275125	.8658701	.8975454	.9231226	.9433305
14	.5511561	.6179902	.6804892	.7373982	.7879365	.8317442	.8688407	.8995506
15	.4288310	.4974554	.5650283	.6297617	.6901667	.7451284	.7939363	.8362781
16	.3146610	.3786673	.4454550	.5125576	.5783511	.6411893	.6997086	.7528934
17	.2171408	.2720980	.3321266	.3957604	.4613187	.5270430	.5912273	.6523405
18	.1406543	.1838309	.2335008	.2888871	.3488435	.4119355	.4765490	.5410164
19	.0854141	.1166365	.1544650	.1988365	.2493056	.3050508	.3644192	.4275054
20	.0485873	.0694188	.0960002	.1287971	.1679930	.2134354	.2646135	.3206697
21	.0258774	.0387273	.0559959	.0784077	.1065504	.1407974	.1812434	.2276597
22	.0129003	.0202414	.0306311	.0440148	.0635282	.0874300	.1170329	.1526265
23	.0060186	.0099083	.0157060	.0240312	.0355720	.0510444	.0711381	.0964619
24	.0026275	.0045414	.0075456	.0120832	.0186922	.0279922	.0406572	.0573739
25	.0010733	.0019486	.0033956	.0056943	.0092122	.0144079	.0210275	.0320881
26	.0004102	.0007826	.0014308	.0025141	.0042558	.0069559	.0106991	.0166572
27	.0001466	.0002941	.0005644	.0010395	.0018421	.0031480	.0051986	.0083113
28	.0000490	.0001034	.0002083	.0004023	.0007467	.0013347	.0023030	.0038499
29	.0000153	.0000340	.0000719	.0001457	.0002833	.0005299	.0009556	.0016650
30	.0000045	.0000104	.0000232	.0000493	.0001005	.0001968	.0003711	.0006754
31	.0000012	.0000030	.0000070	.0000156	.0000333	.0000683	.0001348	.0002563
32	.0000003	.0000008	.0000020	.0000046	.0000103	.0000222	.0000458	.0000909
33	.0000001	.0000002	.0000005	.0000013	.0000030	.0000067	.0000145	.0000301
34			.0000001	.0000003	.0000008	.0000019	.0000043	.0000093
35				.0000001	.0000002	.0000005	.0000012	.0000027
36						.0000001	.0000003	.0000007
37							.0000001	.0000002

x \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999993	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999954	.9999976	.9999988	.9999994	.9999997	.9999999	.9999999	1.0000000
6	.9999752	.9999868	.9999930	.9999964	.9999982	.9999991	.9999995	.9999998
7	.9998908	.9999392	.9999666	.9999820	.9999904	.9999950	.9999974	.9999987
8	.9995940	.9997641	.9998651	.9999242	.9999581	.9999772	.9999878	.9999936
9	.9986903	.9992115	.9995303	.9997249	.9998415	.9999109	.9999501	.9999727
10	.9963455	.9976934	.9985687	.9991270	.9994766	.9996915	.9998214	.9998984
11	.9908990	.9940176	.9961352	.9975463	.9984691	.9990615	.9994347	.9996655
12	.9796809	.9850990	.9906556	.9938282	.9959949	.9974466	.9984009	.9990163
13	.9589608	.9708010	.9795910	.9859852	.9905456	.9937349	.9959222	.9973034
14	.9244195	.9441297	.9594259	.9710533	.9797136	.9860352	.9905585	.9937313
15	.8721655	.9019278	.9260759	.9452559	.9601743	.9715407	.9800258	.9862328
16	.8001019	.8410547	.8757943	.9046250	.9280430	.9466663	.9611705	.9722356
17	.7091484	.7606976	.8064155	.8460593	.8796866	.9075994	.9302796	.9483237
18	.6037414	.6632951	.7185147	.7685460	.8128636	.8512600	.8838091	.9108149
19	.4912549	.5545781	.6159638	.6740765	.7278323	.7764437	.8194361	.8566554
20	.3804472	.4425667	.5055243	.5677984	.6279542	.6847334	.7371230	.7943961
21	.2794799	.3358165	.3955096	.4572028	.5194358	.5807457	.6397642	.6953010
22	.1942282	.2415435	.2939576	.3505570	.4101792	.4714868	.5330572	.5934781
23	.1274265	.1643812	.2069637	.2551211	.3080960	.3649514	.4248219	.4854540
24	.0787883	.1054438	.1377176	.1757641	.2194690	.2684270	.3219421	.3790551
25	.0458486	.0637673	.0864491	.1143864	.1478991	.1870818	.2317650	.2814952
26	.0250819	.0362851	.0511132	.0701945	.0940967	.1232653	.1579675	.1982442
27	.0128865	.0194066	.0284271	.0405561	.0564219	.0766301	.1017121	.1320702
28	.0062124	.0097449	.0148543	.0220322	.0318370	.0448713	.0617402	.0830525
29	.0028077	.0045899	.0072848	.0112403	.0168825	.0247111	.0352867	.0492068
30	.0011886	.0020259	.0033494	.0053792	.0084026	.0127809	.0189514	.0274213
31	.0004709	.0008371	.0014423	.0024120	.0039203	.0062001	.0095519	.0143499
32	.0001744	.0003235	.0005810	.0010122	.0017125	.0028172	.0045117	.0070411
33	.0000603	.0001168	.0002187	.0003970	.0006995	.0011974	.0019942	.0032345
34	.0000195	.0000393	.0000768	.0001454	.0002668	.0004754	.0008236	.0013889
35	.0000059	.0000123	.0000252	.0000496	.0000949	.0001760	.0003173	.0005565
36	.0000016	.0000036	.0000077	.0000150	.0000314	.0000607	.0001130	.0002077
37	.0000004	.0000010	.0000022	.0000046	.0000097	.0000194	.0000380	.0000721
38	.0000001	.0000002	.0000006	.0000013	.0000028	.0000058	.0000117	.0000232
39		.0000001	.0000001	.0000003	.0000007	.0000016	.0000034	.0000069
40				.0000001	.0000002	.0000004	.0000009	.0000019
41						.0000001	.0000002	.0000005
42								.0000001

x \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999994	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999967	.9999983	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000
9	.9999853	.9999923	.9999960	.9999980	.9999990	.9999995	.9999998	.9999999
10	.9999432	.9999688	.9999832	.9999911	.9999954	.9999977	.9999988	.9999994
11	.9998056	.9998891	.9999379	.9999658	.9999816	.9999903	.9999949	.9999974
12	.9994058	.9996476	.9997948	.9998828	.9999343	.9999639	.9999805	.9999897
13	.9983639	.9989918	.9993902	.9996301	.9997893	.9998797	.9999327	.9999631
14	.9959133	.9973845	.9983571	.9989073	.9993877	.9996369	.9997809	.9998907
15	.9906828	.9938098	.9959633	.9974169	.9981784	.9990017	.9993974	.9996435
16	.9805056	.9865616	.9909070	.9933620	.9960664	.9974865	.9984253	.9990330
17	.9623828	.9731119	.9811325	.9870058	.9912190	.9941797	.9962162	.9975809
18	.9327502	.9501956	.9637825	.9741458	.9818870	.9875501	.9916069	.9944524

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 56

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
19	.8881339	.9142407	.9354240	.9522530	.9653440	.9753149	.98M7506	.9881794
20	.8261249	.8621681	.8926374	.9178501	.9382736	.9544697	.9670453	.9765984
21	.7464065	.7924087	.8329239	.8678430	.8972989	.9216193	.9412743	.9560217
22	.6514393	.7058109	.7557003	.8004666	.8398278	.8736473	.9020998	.9255267
23	.5464486	.6060469	.6630198	.7162910	.7650205	.8086346	.8468321	.8795640
24	.4385953	.4992531	.5596643	.6184986	.6745480	.7267669	.7743815	.8168575
25	.3355405	.3929196	.4524557	.5128479	.5727537	.6308755	.6860394	.7378620
26	.2438741	.2943594	.3489336	.4065934	.4661537	.5263184	.5857686	.6438170
27	.1679237	.2092631	.2558196	.3070529	.3621627	.4201229	.4797374	.5397118
28	.1092802	.1407947	.1777708	.2201524	.2676254	.3196086	.3758679	.4335597
29	.0670725	.0894435	.1167690	.1494349	.1875143	.2309274	.2793164	.3320598
30	.0387538	.0535403	.0723716	.0957872	.1243890	.1579891	.1971615	.2416047
31	.0210416	.0301414	.0422145	.0578506	.0776281	.1030697	.1315926	.1664573
32	.0107107	.0159303	.0231338	.0328509	.0456497	.0621178	.0828250	.1082787
33	.0051144	.0078906	.0118803	.0175059	.0252090	.0355294	.0490385	.0663230
34	.0022826	.0036565	.0057185	.0087360	.0130459	.0190371	.0272488	.0381569
35	.0009505	.0015824	.0025699	.0040752	.0063139	.0095649	.0141764	.0205691
36	.0003689	.0006383	.0010769	.0017733	.0028518	.0044823	.0068901	.0103648
37	.0001332	.0002395	.0004199	.0007182	.0011994	.0019567	.0031809	.0048693
38	.0000446	.0000834	.0001520	.0002702	.0004686	.0007938	.0013141	.0021876
39	.0000138	.0000269	.0000510	.0000941	.0001696	.0002984	.0005130	.0008622
40	.0000040	.0000080	.0000158	.0000303	.0000567	.0001037	.0001851	.0003231
41	.0000010	.0000022	.0000045	.0000090	.0000175	.0000332	.0000615	.0001116
42	.0000003	.0000006	.0000012	.0000024	.0000049	.0000097	.0000188	.0000354
43	.0000001	.0000001	.0000003	.0000006	.0000013	.0000026	.0000053	.0000103
44			.0000001	.0000001	.0000003	.0000006	.0000013	.0000027
45					.0000001	.0000001	.0000003	.0000006
46							.0000001	.0000001

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	.9999999	1.0000000
10	.9999997	.9999999
11	.9999987	.9999994
12	.9999947	.9999973
13	.9999803	.9999896
14	.9999328	.9999633
15	.9997934	.9998828
16	.9994182	.9996572
17	.9984945	.9990792
18	.9964052	.9977192
19	.9920591	.9947726
20	.9837058	.9888793
21	.9688581	.9779767
22	.9444032	.9592866
23	.9070234	.9295523
24	.8539332	.8855972
25	.7837969	.8251590
26	.6975430	.7477981
27	.5987348	.6555601
28	.4932533	.5530735
29	.3882088	.4469265
30	.2909188	.3444399
31	.2067212	.2522019
32	.1388736	.1748410
33	.0879464	.1144028
34	.0533608	.0704477
35	.0292323	.0407134
36	.0152645	.0220233
37	.0074361	.0111207
38	.0033705	.0052274
39	.0014174	.0022808
40	.0005513	.0009208
41	.0001977	.0003428
42	.0000651	.0001172
43	.0000196	.0000367
44	.0000054	.0000104
45	.0000013	.0000027
46	.0000003	.0000006
47	.0000001	.0000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 57

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.4360948	.6838550	.8230069	.9023976	.9462665	.9706040	.9840218	.9913721
2	.1114221	.3160945	.5131985	.6705921	.7850658	.8636528	.9154701	.9486076
3	.0195955	.1059456	.2442180	.4001532	.5475070	.6725058	.7709956	.8444854
4	.0025906	.0273185	.0917033	.1935662	.3182635	.4488233	.5716312	.6784935
5	.0002717	.0056559	.0280245	.0773616	.1554143	.2560755	.3690512	.4836354
6	.0000834	.0009697	.0071483	.0260379	.0645503	.1256632	.2074229	.3040232
7	.0000017	.0001409	.0015527	.0075043	.0231036	.0535202	.1019879	.1686640
8	.0000001	.0000177	.0003918	.0018701	.0072105	.0199704	.0441688	.0829095
9		.0000019	.0000480	.0004129	.0019826	.0065962	.0169699	.0363035
10		.0000002	.0000070	.0000805	.0004845	.0019350	.0058225	.0142302
11			.0000009	.0000140	.0001060	.0005099	.0017954	.0050195
12			.0000001	.0000022	.0000209	.0001218	.0005002	.0014078
13				.0000003	.0000037	.0000262	.0001266	.0004673
14					.0000006	.0000051	.0000292	.0001239
15					.0000001	.0000009	.0000062	.0000301
16						.0000002	.0000012	.0000067
17							.0000002	.0000014
18								.0000003

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9953724	.9975350	.9986961	.9993153	.9996431	.9998153	.9999052	.9999517
2	.9692847	.9819231	.9895105	.9939931	.9966029	.9981017	.9989515	.9994273
3	.8970419	.9333528	.9577221	.9736723	.9838832	.9902907	.9942389	.9966307
4	.7660522	.8344132	.8856922	.9228701	.9490376	.9669790	.9789224	.9868647
5	.5911594	.6860039	.7655075	.8293479	.8787465	.9157474	.9426699	.9617522
6	.4078103	.5112108	.6080521	.6941658	.7674115	.8273430	.8747254	.9110489
7	.2506539	.3428914	.4393919	.5344052	.6232305	.7026175	.7708102	.8273481
8	.1374124	.2066329	.2875166	.3756819	.4662649	.5548873	.6372050	.7111919
9	.0674143	.1120090	.1701971	.2404064	.3196736	.4041768	.4898464	.5729107
10	.0297830	.0547673	.0918518	.1399746	.2004160	.2707787	.3482665	.4295080
11	.0118300	.0242384	.0444169	.0742375	.1148795	.1665420	.2283400	.2983970
12	.0042608	.0097449	.0196838	.0359361	.0602684	.0940391	.1379142	.1916919
13	.0014023	.0035717	.0079657	.0159149	.0289874	.0487951	.0767437	.1137803
14	.0004208	.0011974	.0029523	.0064643	.0128075	.0232998	.0393772	.0624099
15	.0001158	.0003683	.0010049	.0024141	.0052091	.0102557	.0186529	.0316576
16	.0000293	.0001042	.0003149	.0008308	.0019543	.0041684	.0081688	.0148658
17	.0000068	.0000272	.0000911	.0002640	.0006776	.0015672	.0033122	.0064700
18	.0000015	.0000066	.0000244	.0000776	.0002175	.0005459	.0012452	.0026131
19	.0000003	.0000015	.0000060	.0000213	.0000648	.0001764	.0004347	.0009805
20	.0000001	.0000003	.0000014	.0000054	.0000179	.0000530	.0001410	.0003428
21		.0000001	.0000003	.0000013	.0000046	.0000148	.0000426	.0001112
22			.0000001	.0000003	.0000011	.0000039	.0000120	.0000337
23				.0000001	.0000002	.0000009	.0000031	.0000095
24					.0000001	.0000002	.0000008	.0000025
25							.0000002	.0000006
26								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999756	.9999878	.9999939	.9999970	.9999985	.9999993	.9999997	.9999998
2	.9996907	.9998348	.9999127	.9999544	.9999764	.9999879	.9999939	.9999969
3	.9980568	.9990943	.9993791	.9996558	.9998116	.9998982	.9999456	.9999713
4	.9919215	.9951095	.9970844	.9982874	.9990084	.9994340	.9996814	.9998231
5	.9749569	.9838937	.9898178	.9936689	.9961263	.9976667	.9986160	.9991914
6	.9381254	.9577963	.9717501	.9814300	.9880051	.9923829	.9952426	.9970765
7	.8727458	.9081476	.9350199	.9549123	.9692955	.9794669	.9865096	.9912885
8	.7751888	.8287444	.8728481	.9066123	.9330606	.9529253	.9675046	.9779718
9	.6302903	.7196070	.7802216	.8311434	.8728601	.9061373	.9320243	.9516889
10	.5110194	.5896135	.6626953	.7284220	.7857345	.8342889	.8743242	.9065007
11	.3740976	.4584340	.5303694	.6051563	.6745666	.7370173	.7915956	.8380048
12	.2348723	.3237712	.3977465	.4734861	.5483035	.6197925	.6860117	.7455846
13	.1601926	.2155062	.2784950	.3473021	.4196429	.4930495	.5651158	.6337074
14	.0934910	.1332410	.1816668	.2381044	.3012552	.3693063	.4401136	.5114126
15	.0505541	.0764867	.1108838	.1523063	.2023489	.2596146	.3227646	.3900373
16	.0253437	.0407730	.0628839	.0908176	.1269799	.1709236	.2222813	.2801607
17	.0117893	.0201940	.0337284	.0504657	.0743885	.1052582	.1434933	.1890787
18	.0050938	.0092993	.0160082	.0261358	.0406781	.0605899	.0867347	.1197098
19	.0020463	.0039848	.0078926	.0126198	.0207552	.0325926	.0490593	.0710899
20	.0007650	.0015902	.0030961	.0056831	.0098878	.0163837	.0259597	.0394756
21	.0002664	.0005914	.0012259	.0023884	.0043991	.0076974	.0126499	.0205430
22	.0000865	.0002053	.0004529	.0009372	.0018284	.0033807	.0059505	.0100091
23	.0000262	.0000664	.0001563	.0003435	.0007102	.0013884	.0025781	.0046657
24	.0000074	.0000201	.0000504	.0001177	.0002579	.0005333	.0010452	.0019499
25	.0000020	.0000057	.0000152	.0000377	.0000876	.0001916	.0003966	.0007797
26	.0000005	.0000015	.0000043	.0000113	.0000278	.0000644	.0001408	.0002919
27	.0000001	.0000004	.0000011	.0000032	.0000083	.0000203	.0000468	.0001023
28		.0000001	.0000003	.0000008	.0000023	.0000060	.0000146	.0000336
29			.0000001	.0000002	.0000006	.0000016	.0000042	.0000103
30					.0000001	.0000004	.0000012	.0000030
31						.0000001	.0000003	.0000008
32							.0000001	.0000002

r	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999985	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
3	.9999851	.9999933	.9999961	.9999980	.9999990	.9999995	.9999998	.9999999
4	.9999032	.9999477	.9999721	.9999854	.9999934	.9999961	.9999980	.9999990
5	.9995348	.9997360	.9998524	.9999187	.9999559	.9999764	.9999875	.9999935
6	.9988319	.9989474	.9993830	.9996439	.9997976	.9998867	.9999376	.9999661
7	.9944690	.9965468	.9978785	.9987176	.9993374	.9995537	.9997489	.9998643
8	.9853303	.9903996	.9938840	.9960937	.9975704	.9985138	.9991058	.9994708
9	.9662915	.9769019	.9844517	.9897159	.9933148	.9957884	.9973168	.9983489

$$B(x;n,p) = \sum_{k=x}^{n} \binom{n}{k} p^k (1-p)^{n-k}$$

n = 57

x	.25	.26	.27	.28	.29	.30	.31	.32
10	.9317396	.9510820	.9685706	.9762182	.9838512	.9892290	.9929407	.9954533
11	.8764565	.9075371	.9320724	.9510052	.9658973	.9758590	.9835036	.9889260
12	.7977199	.8421663	.8791218	.9091209	.9329171	.9513761	.9653079	.9758016
13	.6971121	.7541317	.8040479	.8466822	.8822184	.9111543	.9341887	.9532263
14	.5810261	.6470406	.7079313	.7626302	.8105372	.8514846	.8856681	.9135602
15	.4594123	.5287965	.5962027	.6598999	.7185109	.7711131	.8171567	.8565213
16	.3432035	.4097002	.4777398	.5453747	.6107776	.6723710	.7289193	.7795746
17	.2415808	.2998580	.3627283	.4284636	.4958581	.5612868	.6246565	.6845288
18	.1597759	.2067803	.2601898	.3188116	.3814613	.4464674	.5180998	.5764440
19	.0993241	.1341070	.1758047	.2240507	.2781716	.3371162	.3995247	.4630296
20	.0577940	.0816954	.1117857	.1484002	.1915736	.2409200	.2957082	.3548571
21	.0315549	.0467071	.0667970	.0925167	.1243687	.1625888	.2070881	.2574229
22	.0161446	.0250477	.0374796	.0542208	.0760046	.1014408	.1369382	.1766371
23	.0077390	.0125949	.0197357	.0296506	.0436793	.0619604	.0853655	.1144278
24	.0034753	.0059368	.0097409	.0154207	.0235874	.0349079	.0501063	.0690789
25	.0014619	.0026327	.0045161	.0074832	.0119614	.0184038	.0276647	.0401796
26	.0005760	.0010857	.0019613	.0034046	.0056912	.0091915	.0143559	.0217311
27	.0002125	.0004211	.0007903	.0014524	.0025421	.0042904	.0069967	.0110460
28	.0000734	.0001530	.0003045	.0005808	.0010644	.0018707	.0032006	.0053726
29	.0000237	.0000520	.0001088	.0002176	.0004177	.0007713	.0013733	.0023619
30	.0000072	.0000166	.0000364	.0000765	.0001535	.0002967	.0005523	.0009921
31	.0000020	.0000049	.0000114	.0000251	.0000528	.0001069	.0002081	.0003905
32	.0000005	.0000014	.0000033	.0000077	.0000170	.0000360	.0000734	.0001439
33	.0000001	.0000004	.0000009	.0000022	.0000051	.0000114	.0000242	.0000496
34		.0000001	.0000002	.0000006	.0000014	.0000033	.0000074	.0000160
35			.0000001	.0000001	.0000004	.0000009	.0000021	.0000048
36					.0000001	.0000002	.0000006	.0000013
37						.0000001	.0000001	.0000003
38								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999995	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999967	.9999983	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000
6	.9999819	.9999905	.9999951	.9999975	.9999987	.9999994	.9999997	.9999999
7	.9999187	.9999554	.9999759	.9999872	.9999933	.9999966	.9999983	.9999991
8	.9996919	.9998236	.9999007	.9999450	.9999720	.9999840	.9999916	.9999956
9	.9989939	.9993994	.9996475	.9997966	.9998846	.9999357	.9999648	.9999810
10	.9971219	.9982095	.9989053	.9993422	.9996116	.9997747	.9998716	.9999281
11	.9926964	.9952674	.9969870	.9981153	.9988419	.9993009	.9995855	.9997587
12	.9833829	.9887913	.9925735	.9951667	.9969103	.9980602	.9988040	.9992760
13	.9657985	.9760029	.9834636	.9888086	.9925618	.9951453	.9968869	.9980426
14	.9358181	.9531982	.9664037	.9764288	.9837215	.9889611	.9926503	.9951961
15	.8894093	.9162765	.9377484	.9545430	.9674039	.9770496	.9841335	.9892322
16	.8238829	.8617516	.8933929	.9192521	.9399316	.9561186	.9685241	.9778345
17	.7391631	.7880190	.8306901	.8671430	.8975705	.9234448	.9423270	.9578885
18	.6385258	.6964120	.7498800	.7964508	.8375881	.8726609	.9019326	.9250184
19	.5283754	.5915419	.6516566	.7200855	.7592939	.8040739	.8445416	.8873072
20	.4170137	.4806506	.5441781	.6060506	.6649091	.7295833	.7692251	.8132918
21	.3127991	.3721116	.4340148	.4970172	.5595876	.6202610	.6777342	.7309391
22	.2223613	.2735963	.3295008	.3889495	.4506041	.5130058	.5746729	.6342073
23	.1494711	.1905504	.2374116	.2894780	.3458668	.4054349	.4668503	.5286816
24	.0940389	.1254485	.1615539	.2043326	.2522610	.3051063	.3619480	.4216267
25	.0567187	.0779373	.1043933	.1364824	.1743799	.2179930	.2669341	.3205192
26	.0329349	.0456297	.0634808	.0861036	.1140036	.1475156	.1867485	.2315446
27	.0169109	.0251456	.0363673	.0513259	.0703616	.0943514	.1236517	.1585398
28	.0084148	.0130299	.0196048	.0287008	.0409334	.0569396	.0773347	.1026596
29	.0039312	.0057426	.0099341	.0151354	.0224156	.0323720	.0456071	.0637452
30	.0017299	.0026977	.0047268	.0074892	.0115401	.0173144	.0253222	.0361355
31	.0007078	.0012413	.0021098	.0034802	.0055708	.0087008	.0132177	.0195784
32	.0002723	.0004981	.0008825	.0015161	.0025294	.0041027	.0064774	.0099646
33	.0000980	.0001871	.0003455	.0006185	.0010743	.0018139	.0030760	.0047572
34	.0000330	.0000657	.0001265	.0002360	.0004269	.0007497	.0012801	.0021871
35	.0000103	.0000215	.0000432	.0000841	.0001585	.0002698	.0005148	.0008895
36	.0000030	.0000066	.0000138	.0000279	.0000549	.0001045	.0001932	.0003472
37	.0000008	.0000019	.0000041	.0000086	.0000177	.0000351	.0000676	.0001263
38	.0000002	.0000005	.0000011	.0000025	.0000053	.0000110	.0000220	.0000428
39		.0000001	.0000003	.0000007	.0000015	.0000032	.0000066	.0000134
40			.0000001	.0000002	.0000004	.0000009	.0000019	.0000039
41					.0000001	.0000002	.0000005	.0000010
42							.0000001	.0000003
43								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999978	.9999989	.9999995	.9999997	.9999999	.9999999	1.0000000	1.0000000
9	.9999900	.9999948	.9999974	.9999987	.9999994	.9999997	.9999999	.9999999
10	.9999605	.9999787	.9999887	.9999941	.9999970	.9999985	.9999993	.9999996
11	.9998620	.9999226	.9999574	.9999770	.9999878	.9999937	.9999968	.9999984
12	.9995697	.9997490	.9998569	.9999193	.9999556	.9999760	.9999873	.9999934
13	.9987911	.9992673	.9995642	.9997458	.9998545	.9999184	.9999552	.9999759
14	.9969180	.9980596	.9988013	.9992737	.9995684	.9997406	.9998565	.9999197
15	.9928271	.9953112	.9969926	.9981079	.9988536	.9992939	.9995814	.9997569
16	.9846783	.9896058	.9930012	.9954822	.9971068	.9981035	.9988030	.9993861

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 57

c	.41	.42	.43	.44	.45	.46	.47	.48
17	.9698131	.9787608	.9853355	.9900665	.9934003	.9957006	.9973545	.9984821
18	.9446995	.9598205	.9712430	.9798042	.9860864	.9905995	.9937733	.9959579
19	.9064266	.9293418	.9476182	.9618858	.9727883	.9809431	.9869331	.9911904
20	.8515486	.8840386	.9110356	.9329874	.9504553	.9640585	.9744257	.9821573
21	.7790911	.8217076	.8586007	.8898461	.9157375	.9367305	.9533857	.9663145
22	.6903759	.7421820	.7889064	.8301234	.8656898	.8957144	.9205118	.9405483
23	.5894948	.6479470	.7028724	.7533370	.7986838	.8385404	.8730080	.9016217
24	.4828152	.5441065	.6041072	.6615272	.7152573	.7644261	.8084734	.8469390
25	.3777989	.4375797	.4985554	.5593542	.6185585	.6749865	.7275602	.7734678
26	.2814573	.3357545	.3934481	.4531454	.5141237	.5744147	.6388988	.6883506
27	.1990633	.2450035	.2950586	.3506507	.4089506	.4689728	.5295493	.5893943
28	.1333840	.1695514	.2113317	.2503886	.3101672	.3650452	.4243685	.4848091
29	.0843777	.1110110	.1430112	.1805506	.2235643	.2717208	.3244136	.3807764
30	.0503641	.0686197	.0914711	.1193922	.1527074	.1915407	.2357744	.2850231
31	.0283033	.0399690	.0551820	.0745427	.0985985	.1277926	.1624100	.2025281
32	.0149511	.0218989	.0313365	.0438507	.0600400	.0804957	.1057458	.1362045
33	.0074121	.0112672	.0167238	.0242572	.0344073	.0477600	.0649181	.0864618
34	.0034433	.0054348	.0083715	.0125944	.0185193	.0266343	.0374896	.0516766
35	.0014964	.0024535	.0039238	.0061259	.0093433	.0139313	.0203202	.0290112
36	.0006074	.0010348	.0017189	.0027861	.0044097	.0068203	.0103147	.0158526
37	.0002298	.0004070	.0007021	.0011825	.0019429	.0031185	.0048924	.0075069
38	.0000809	.0001490	.0002675	.0004673	.0007974	.0013287	.0021633	.0034436
39	.0000264	.0000506	.0000944	.0001716	.0003042	.0005263	.0008695	.0014696
40	.0000080	.0000159	.0000309	.0000584	.0001075	.0001933	.0003392	.0005818
41	.0000022	.0000046	.0000093	.0000184	.0000351	.0000656	.0001196	.0002131
42	.0000006	.0000012	.0000026	.0000053	.0000106	.0000205	.0000389	.0000719
43	.0000001	.0000003	.0000007	.0000014	.0000029	.0000059	.0000116	.0000223
44		.0000001	.0000002	.0000003	.0000007	.0000015	.0000032	.0000063
45				.0000001	.0000002	.0000004	.0000008	.0000016
46						.0000001	.0000002	.0000004
47								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	.9999998	.9999999
11	.9999992	.9999996
12	.9999967	.9999983
13	.9999873	.9999934
14	.9999561	.9999764
15	.9998618	.9999231
16	.9996021	.9997700
17	.9989471	.9993682
18	.9974295	.9983998
19	.9941898	.9962459
20	.9877989	.9918259
21	.9761335	.9834280
22	.9563861	.9686317
23	.9253395	.9444194
24	.8799474	.9075748
25	.8181637	.8553781
26	.7398074	.7864786
27	.6471508	.7016791
28	.5449393	.6043168
29	.4397214	.5000000
30	.3386298	.3956832
31	.2479777	.2983209
32	.1721189	.2135214
33	.1139007	.1446219
34	.0697977	.0924252
35	.0405653	.0553806
36	.0221087	.0311683
37	.0118780	.0165780
38	.0053627	.0081741
39	.0023744	.0037541
40	.0009757	.0016008
41	.0003710	.0006318
42	.0001301	.0002300
43	.0000419	.0000769
44	.0000123	.0000236
45	.0000033	.0000066
46	.0000008	.0000017
47	.0000002	.0000004
48		.0000001

$$b(x;n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 50

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.4117339	.6901779	.8290927	.9067017	.9489531	.9723670	.9851403	.9920623
2	.1146689	.3234497	.5225167	.6790643	.7931258	.8700699	.9202697	.9520308
3	.0205138	.1101486	.2532874	.4109698	.5593849	.6839747	.7811089	.8526152
4	.0027606	.0288911	.0962787	.2018297	.3397447	.4823442	.5855867	.6917780
5	.0002949	.0060892	.0299348	.0820093	.1635577	.2676404	.3832318	.4992222
6	.0000259	.0010635	.0077746	.0280908	.0690935	.1334879	.2187369	.3183920
7	.0000019	.0001575	.0017205	.0088457	.0251760	.0578488	.1093684	.1794935
8	.0000001	.0000201	.0003396	.0021031	.0080052	.0219834	.0482161	.0897703
9		.0000022	.0000554	.0004715	.0022440	.0073893	.0186729	.0400323
10		.0000002	.0000082	.0000938	.0005594	.0022140	.0066087	.0160044
11			.0000011	.0000167	.0001249	.0005954	.0020773	.0057664
12			.0000001	.0000027	.0000252	.0001446	.0005909	.0018816
13				.0000004	.0000046	.0000319	.0001527	.0005585
14				.0000001	.0000008	.0000064	.0000360	.0001514
15					.0000001	.0000012	.0000078	.0000376
16						.0000002	.0000015	.0000086
17							.0000003	.0000018
18								.0000004
19								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9957888	.9977815	.9986396	.9993974	.9996095	.9998412	.9999194	.9999594
2	.9716326	.9834843	.9905210	.9946310	.9969981	.9983416	.9990445	.9995118
3	.9055438	.9383098	.9612189	.9761100	.9855367	.9913843	.9944458	.9970782
4	.7778413	.8443072	.8936155	.9289664	.9535678	.9702426	.9812794	.9884873
5	.6068998	.7008449	.7787279	.8405706	.8870044	.9229198	.9481182	.9657702
6	.4243117	.5286901	.6253722	.7103677	.7818850	.8397196	.8849170	.9191514
7	.2647980	.3597234	.4579445	.5535764	.6419740	.7300791	.7863975	.8407402
8	.1476042	.2202588	.3042229	.3947887	.4866705	.5753975	.6572458	.7397769
9	.0737141	.1214713	.1831023	.2566395	.3387305	.4252483	.5119502	.6550357
10	.0331152	.0604915	.0999358	.1530265	.2159195	.2894544	.3695035	.4584524
11	.0134403	.0272913	.0495687	.0881259	.1359992	.1811352	.2463390	.3193747
12	.0049493	.0111942	.0234044	.0485322	.0823679	.1141895	.1514780	.2087647
13	.0016502	.0041890	.0093547	.0183174	.0330539	.0551293	.0859193	.1262461
14	.0005091	.0014349	.0033038	.0075904	.0149109	.0268691	.0449822	.0706391
15	.0001433	.0004512	.0012191	.0029001	.0061969	.0120818	.0217615	.0365779
16	.0000371	.0001305	.0003908	.0010208	.0023774	.0050206	.0097414	.0175525
17	.0000088	.0000349	.0001157	.0003320	.0008436	.0019313	.0040407	.0078133
18	.0000020	.0000086	.0000317	.0001000	.0002774	.0006889	.0015553	.0032302
19	.0000004	.0000020	.0000081	.0000279	.0000846	.0002288	.0005562	.0012417
20	.0000001	.0000004	.0000019	.0000073	.0000240	.0000703	.0001851	.0004443
21		.0000001	.0000004	.0000018	.0000063	.0000201	.0000574	.0001482
22			.0000001	.0000004	.0000016	.0000054	.0000166	.0000461
23				.0000001	.0000004	.0000013	.0000045	.0000134
24					.0000001	.0000003	.0000011	.0000036
25						.0000001	.0000003	.0000009
26							.0000001	.0000002

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999797	.9999900	.9999951	.9999976	.9999988	.9999994	.9999997	.9999999
2	.9997391	.9998623	.9999281	.9999629	.9999810	.9999904	.9999952	.9999976
3	.9983346	.9990636	.9994805	.9997155	.9998462	.9999179	.9999567	.9999775
4	.9929635	.9957908	.9975204	.9985610	.9991771	.9995361	.9997423	.9998587
5	.9778409	.9859125	.9911985	.9945925	.9967315	.9980555	.9988610	.9993430
6	.9443868	.9624938	.9751030	.9838778	.9897105	.9935453	.9960185	.9975841
7	.8838603	.9170044	.9419980	.9602150	.9732245	.9833085	.9885188	.9926777
8	.7917685	.8430370	.8841748	.9162723	.9406699	.9587645	.9718757	.9811679
9	.6715221	.7394157	.7977067	.8462372	.8855022	.9164306	.9401848	.9579968
10	.5346955	.6130483	.6850353	.7489663	.8040309	.8500956	.8875952	.9173458
11	.3973743	.4771263	.5555113	.6298094	.6979119	.7584171	.8106232	.8544438
12	.2746426	.3469305	.4229448	.4998201	.5748187	.6455830	.7102960	.7677644
13	.1761861	.2349939	.3011527	.3735369	.4666616	.5209330	.6089219	.6655800
14	.1048303	.1480488	.2000642	.2599440	.3661166	.3965298	.4688641	.5407634
15	.0578533	.0867025	.1238466	.1694659	.2831192	.2837467	.3497549	.4191673
16	.0296294	.0473014	.0714039	.1031154	.1428074	.1904356	.2453985	.3065310
17	.0140935	.0238968	.0383439	.0585361	.0854327	.1197046	.1616146	.2109384
18	.0062320	.0112603	.0191850	.0310018	.0477535	.0704169	.0997891	.1363584
19	.0025643	.0049414	.0089485	.0153226	.0249377	.0387520	.0577247	.0827131
20	.0009880	.0020212	.0038935	.0070703	.0121700	.0199497	.0312726	.0470486
21	.0003513	.0007712	.0015812	.0030474	.0055517	.0096084	.0158652	.0250868
22	.0001171	.0002747	.0005998	.0012275	.0023683	.0043304	.0075373	.0125378
23	.0000365	.0000914	.0002126	.0004623	.0009451	.0018267	.0033538	.0058721
24	.0000106	.0000284	.0000705	.0001628	.0003529	.0007214	.0013978	.0025777
25	.0000029	.0000083	.0000219	.0000537	.0001234	.0002668	.0005458	.0010605
26	.0000007	.0000022	.0000063	.0000166	.0000404	.0000924	.0001996	.0004090
27	.0000002	.0000006	.0000017	.0000048	.0000124	.0000300	.0000684	.0001478
28		.0000001	.0000004	.0000013	.0000035	.0000091	.0000820	.0000501
29			.0000001	.0000003	.0000010	.0000026	.0000066	.0000159
30				.0000001	.0000002	.0000007	.0000019	.0000047
31					.0000001	.0000002	.0000005	.0000013
32							.0000001	.0000003
33								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999988	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999884	.9999941	.9999971	.9999985	.9999993	.9999997	.9999998	.9999999
4	.9999236	.9999593	.9999786	.9999889	.9999943	.9999971	.9999986	.9999993
5	.9996267	.9997910	.9998847	.9999374	.9999665	.9999823	.9999908	.9999953
6	.9985576	.9991524	.9995098	.9997208	.9998435	.9999136	.9999531	.9999749
7	.9954097	.9971703	.9982847	.9989771	.9993999	.9996536	.9998033	.9998900

$$I_{n,m}(x) = \sum_{k=0}^{n} \binom{n}{k} I^{k} (1-I)^{n-k}$$

$n = 50$

k	.25	.26	.27	.28	.29	.30	.31	.32
0	.9876150	.9919977	.9949107	.9968205	.9980538	.9988550	.9993033	.9995835
9	.9710513	.9804113	.9869022	.9915017	.9945409	.9965640	.9978714	.9987038
10	.9403776	.9577955	.9706743	.9799932	.9865957	.9911788	.9942973	.9963779
11	.8902772	.9188588	.9411191	.9580631	.9706700	.9798700	.9864391	.9910147
12	.8174040	.8591647	.8934165	.9208485	.9423074	.9587210	.9710038	.9800014
13	.7288640	.7770133	.8243179	.8641650	.8969210	.9139208	.9430604	.9597024
14	.6100476	.6748817	.7338888	.7861648	.8313248	.8693855	.9007095	.9259014
15	.4894158	.5595400	.6263694	.6806644	.7458049	.7952246	.8301959	.8747737
16	.3728557	.4406658	.5097840	.5774418	.6420289	.7019937	.7508788	.8041975
17	.2669415	.3284170	.3937792	.4611987	.5387587	.5946117	.6571160	.7149394
18	.1803181	.2309805	.2870306	.3495148	.4344634	.4809131	.5470544	.6111653
19	.1143681	.1530021	.1985725	.2505837	.3081256	.3697816	.4344830	.4993302
20	.0681515	.0953224	.1290700	.1695881	.2166870	.2697789	.3278913	.3978203
21	.0381119	.0558041	.0789440	.1081663	.1438501	.1860881	.2345603	.2886019
22	.0199972	.0306792	.0453953	.0649436	.0900302	.1211052	.1586846	.2034806
23	.0098404	.0158336	.0245866	.0366743	.0539537	.0744045	.1013530	.1343340
24	.0045412	.0076679	.0124454	.0194660	.0294140	.0430936	.0610366	.0841345
25	.0019688	.0034844	.0059389	.0097000	.0153399	.0234106	.0346916	.0496134
26	.0007974	.0014854	.0026511	.0045466	.0075110	.0119790	.0184816	.0276346
27	.0003034	.0005939	.0011195	.0019990	.0034559	.0057609	.0092781	.0144652
28	.0001082	.0002227	.0004378	.0008240	.0014989	.0026028	.0043774	.0071808
29	.0000362	.0000783	.0001616	.0003193	.0006052	.0011035	.0019390	.0033934
30	.0000113	.0000258	.0000559	.0001159	.0002301	.0004391	.0008068	.0014304
31	.0000033	.0000080	.0000181	.0000394	.0000830	.0001638	.0003140	.0005830
32	.0000009	.0000023	.0000055	.0000126	.0000274	.0000573	.0001151	.0002228
33	.0000002	.0000006	.0000016	.0000037	.0000086	.0000189	.0000394	.0000797
34	.0000001	.0000002	.0000004	.0000010	.0000025	.0000057	.0000126	.0000267
35			.0000001	.0000003	.0000007	.0000016	.0000038	.0000084
36				.0000001	.0000002	.0000004	.0000011	.0000024
37						.0000001	.0000003	.0000007
38							.0000001	.0000002

k	.33	.34	.35	.36	.37	.38	.39	40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999976	.9999988	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000
6	.9999665	.9999831	.9999965	.9999982	.9999991	.9999996	.9999998	.9999999
7	.9999395	.9999673	.9999828	.9999909	.9999953	.9999976	.9999988	.9999994
8	.9997668	.9998684	.9999270	.9999608	.9999786	.9999887	.9999942	.9999970
9	.9992243	.9995436	.9997361	.9998500	.9999163	.9999540	.9999758	.9999869
10	.9977397	.9986141	.9991650	.9995058	.9997186	.9998359	.9999079	.9999491
11	.9941568	.9962677	.9976504	.9985570	.9991267	.9994800	.9996971	.9998264
12	.9864563	.9909932	.9941182	.9962283	.9976250	.9985317	.9991080	.9994691
13	.9716013	.9803510	.9866521	.9911095	.9941708	.9962530	.9977350	.9985559
14	.9457116	.9609518	.9734266	.9800885	.9869984	.9913111	.9943033	.9963347
15	.9047248	.9288299	.9470057	.9634919	.9744414	.9815754	.9874551	.9916178
16	.8455066	.8803900	.9089173	.9319568	.9500961	.9640720	.9746118	.9833936
17	.7671206	.8130881	.8526413	.8859023	.9133491	.9358400	.9535439	.9650869
18	.6717361	.7275584	.7777763	.8219000	.8597046	.8915038	.9176864	.9186464
19	.5647250	.6271977	.6959540	.7390270	.7888698	.8106360	.8569241	.8273117
20	.4537631	.5183537	.6018656	.6437881	.6958334	.7519037	.7985985	.8390980
21	.3471900	.4090148	.4725719	.5362721	.5985565	.6500035	.7134156	.7638802
22	.2532050	.3070915	.3660807	.4278539	.4909200	.5537684	.6144660	.6729000
23	.1735249	.2187860	.2696420	.3258877	.3866196	.4663116	.5080011	.5708919
24	.1128675	.1475832	.1883641	.2349850	.2868951	.3838511	.4238599	.4644406
25	.0693984	.0940911	.1245394	.1609085	.2031959	.2510960	.3039895	.3609632
26	.0401136	.0566143	.0778001	.1042399	.1363428	.1742970	.2180209	.2671344
27	.0221060	.0321102	.0458570	.0637819	.0865091	.1145530	.1482595	.1877417
28	.0112185	.0171492	.0254716	.0368099	.0518218	.0711561	.0953984	.1250117
29	.0054108	.0086163	.0133108	.0200125	.0298672	.0417077	.0579809	.0787109
30	.0024517	.0040689	.0065494	.0102388	.0155441	.0230363	.0332333	.0467794
31	.0010428	.0018045	.0030258	.0049235	.0077445	.0119740	.0179385	.0262012
32	.0004160	.0007508	.0013121	.0022232	.0036576	.0058500	.0091061	.0138103
33	.0001555	.0002928	.0005335	.0009416	.0016127	.0026830	.0043416	.0068402
34	.0000544	.0001069	.0002032	.0003737	.0006664	.0011537	.0019415	.0031791
35	.0000178	.0000365	.0000724	.0001308	.0002578	.0004645	.0008133	.0013845
36	.0000054	.0000117	.0000241	.0000482	.0000930	.0001749	.0003186	.0005641
37	.0000016	.0000035	.0000075	.0000156	.0000315	.0000615	.0001166	.0002147
38	.0000004	.0000010	.0000022	.0000047	.0000099	.0000201	.0000390	.0000763
39	.0000001	.0000002	.0000006	.0000013	.0000029	.0000061	.0000126	.0000258
40		.0000001	.0000001	.0000003	.0000008	.0000017	.0000037	.0000077
41				.0000001	.0000002	.0000005	.0000010	.0000023
42						.0000001	.0000003	.0000006
43							.0000001	.0000001

k	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999985	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
9	.9999932	.9999965	.9999983	.9999991	.9999996	.9999998	.9999999	1.0000000
10	.9999736	.9999854	.9999934	.9999961	.9999981	.9999990	.9999995	.9999998
11	.9999024	.9999461	.9999708	.9999845	.9999919	.9999959	.9999979	.9999990
12	.9996096	.9998319	.9998888	.9999449	.9999701	.9999841	.9999918	.9999958
13	.9991103	.9994696	.9996898	.9998221	.9999000	.9999449	.9999703	.9999843
14	.9976060	.9985668	.9991394	.9994814	.9996972	.9998367	.9999029	.9999467
15	.9945045	.9964655	.9977704	.9988208	.9994117	.9995030	.9997107	.9998151

$$B(n,p) = \sum_{r=n}^{N} \binom{r}{n} p^{n}(1-p)^{r-n}$$

N \ p	.41	.42	.43	.44	.45	.46	.47	.48
16	.9988 0174	.9990 0021	.9994 7631	.9996 6375	.9987 0834	.9986 9443	.9993 1100	.9995 1329
17	.9959 9078	.9983 3157	.9988 6662	.9994 4474	.9995 0628	.9996 0407	.9998 0195	.9996 7038
18	.9851 1141	.9967 7754	.9973 3088	.9984 1196	.9993 7776	.9989 6460	.9995 4095	.9990 7035
19	.9688 2005	.9941 4888	.9957 7789	.9969 7699	.9987 7785	.9985 3050	.9991 1374	.9993 4788
20	.9740 4066	.9903 6659	.9926 7661	.9957 7027	.9960 5051	.9971 0254	.9988 2948	.9986 4938
21	.9007 7987	.8478 8066	.9011 1477	.9000 0303	.9931 3605	.9949 3014	.9963 2745	.9973 9191
22	.7367 7491	.7755 8827	.8104 7750	.8564 0014	.9000 3113	.9145 0118	.9359 6225	.9529 1161
23	.6308 8561	.6875 2261	.7390 6770	.7871 2330	.8288 3655	.8640 4055	.9195 2888	.9803 1101
24	.5865 5538	.5877 1908	.6465 5768	.7019 8335	.7539 2498	.7985 1847	.8386 6955	.8732 0004
25	.4208 8580	.4883 8309	.5439 4827	.6042 8991	.6620 7789	.7161 3092	.7655 7064	.8097 8036
26	.3809 5549	.3765 2108	.4386 6443	.4999 8805	.5611 1193	.6206 7771	.6773 8865	.7301 7111
27	.3328 8449	.3031 1901	.3570 8821	.3953 4284	.4568 8539	.5174 7641	.5781 3114	.6368 9772
28	.1600 8771	.2012 4113	.2476 7783	.2990 7119	.3546 2333	.4132 0119	.4730 1129	.5348 5540
29	.1044 4157	.1355 2910	.1732 3990	.2147 7993	.2685 3566	.3150 1160	.3711 3924	.4305 6681
30	.0641 3097	.0864 2240	.1136 9333	.1463 1019	.1845 9310	.2284 9536	.2774 3488	.3309 8047
31	.0371 4888	.0520 0823	.0707 7863	.0942 7765	.1289 4475	.1671 1168	.1968 9113	.2421 8157
32	.0204 8855	.0294 0044	.0415 9912	.0571 5558	.0773 9113	.1028 5893	.1323 7800	.1680 3948
33	.0105 0031	.0157 3385	.0230 0881	.0330 7033	.0459 4300	.0620 1084	.0841 1071	.1103 3382
34	.0050 7705	.0078 0444	.0117 6630	.0177 3860	.0256 6689	.0363 5588	.0503 3810	.0683 7735
35	.0022 8946	.0037 0056	.0056 3361	.0089 7781	.0134 7785	.0197 7477	.0283 3690	.0398 9084
36	.0009 9719	.0016 3107	.0026 6670	.0042 5546	.0066 2898	.0100 9914	.0150 1728	.0218 6119
37	.0003 9846	.0006 7707	.0011 3395	.0018 8881	.0030 5530	.0044 8413	.0074 4404	.0112 8296
38	.0001 4480	.0002 5571	.0004 5544	.0007 8880	.0013 2189	.0021 5520	.0034 4660	.0053 9540
39	.0000 4880	.0000 9019	.0001 6847	.0003 1017	.0005 5661	.0008 9554	.0014 8882	.0024 1171
40	.0000 1556	.0000 3105	.0000 5908	.0001 2082	.0002 2660	.0003 6465	.0005 9779	.0010 0079
41	.0000 0046	.0000 0094	.0000 1886	.0000 3600	.0000 6677	.0001 2243	.0002 2286	.0003 9901
42	.0000 0013	.0000 0027	.0000 0055	.0000 1111	.0000 2116	.0000 4113	.0000 7768	.0001 3397
43	.0000 0003	.0000 0007	.0000 0015	.0000 0031	.0000 0064	.0000 1186	.0000 2144	.0000 4461
44	.0000 0001	.0000 0002	.0000 0004	.0000 0008	.0000 0017	.0000 0035	.0000 0071	.0000 0140
45			.0000 0001	.0000 0002	.0000 0004	.0000 0009	.0000 0019	.0000 0039
46					.0000 0001	.0000 0002	.0000 0005	.0000 0010
47							.0000 0001	.0000 0002

N \ p	.49	.50
1	1.0000 0000	1.0000 0000
2	1.0000 0000	1.0000 0000
3	1.0000 0000	1.0000 0000
4	1.0000 0000	1.0000 0000
5	1.0000 0000	1.0000 0000
6	1.0000 0000	1.0000 0000
7	1.0000 0000	1.0000 0000
8	1.0000 0000	1.0000 0000
9	1.0000 0000	1.0000 0000
10	.9999 9999	1.0000 0000
11	.9999 9995	.9999 9998
12	.9999 9979	.9999 9990
13	.9999 9919	.9999 9959
14	.9999 9714	.9999 9849
15	.9999 9000	.9999 9498
16	.9997 8993	.9998 8465
17	.9993 6880	.9995 6691
18	.9981 1731	.9986 8637
19	.9957 7760	.9973 3226
20	.9909 9301	.9940 3559
21	.9818 8495	.9876 2370
22	.9660 6623	.9760 2948
23	.9405 5524	.9565 2556
24	.9021 1895	.9259 9721
25	.8484 3777	.8814 7764
26	.7782 9080	.8209 2A3
27	.6928 5526	.7440 7AA
28	.5950 0229	.6529 9A0
29	.4912 7781	.5521 5A4
30	.3881 1647	.4478 416
31	.2923 9728	.3470 030
32	.2092 8897	.2559 313
33	.1419 9176	.1790 717
34	.0909 1882	.1185 236
35	.0548 8892	.0740 029
36	.0311 1524	.0434 744
37	.0165 8820	.0239 732
38	.0082 2582	.0123 730
39	.0038 1387	.0059 641
40	.0016 6611	.0026 774
41	.0006 6673	.0011 163
42	.0002 4401	.0004 309
43	.0000 8851	.0001 535
44	.0000 2668	.0000 502
45	.0000 077	.0000 .51
46	.0000 020	.0000 041
47	.0000 005	.0000 010
48	.0000 001	.0000 002

$$I_x(n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.4473165	.6963743	.8142199	.9100497	.9515055	.9740057	.9861804	.9936973
2	.1179305	.3307843	.5317140	.6809318	.8009178	.8762077	.9244097	.9558114
3	.0214553	.1144146	.2603943	.4217256	.5710780	.6951404	.7908501	.8607523
4	.0029382	.0305162	.1009590	.2101953	.3418867	.4755400	.5992733	.7046560
5	.0003196	.0065458	.0319282	.0866896	.1718671	.2791166	.3973967	.5146862
6	.0000206	.0011840	.0084394	.0308476	.0730167	.1415571	.2302515	.3368584
7	.0000020	.0001756	.0019091	.0099395	.0273719	.0623071	.1170248	.1906054
8	.0000001	.0000289	.0003713	.0028488	.0088637	.0241353	.0524968	.0969441
9		.0000036	.0000636	.0007538	.0025330	.0088649	.0220969	.0449114
10		.0000003	.0000096	.0001809	.0006436	.0029846	.0094616	.0179866
11			.0000013	.0000190	.0001467	.0006935	.0003940	.0065854
12			.0000003	.0000032	.0000302	.0001716	.0006949	.0008194
13				.0000005	.0000056	.0000366	.0001034	.0000643
14				.0000001	.0000010	.0000073	.0000248	.0001040
15					.0000001	.0000015	.0000098	.0000467
16						.0000003	.0000020	.0000109
17							.0000004	.0000024
18							.0000001	.0000005
19								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9961679	.9980033	.9989678	.9994690	.9997290	.9998614	.9999315	.9999659
2	.9730066	.9044140	.9914360	.9955037	.9979480	.9990515	.9995108	.9998029
3	.9096717	.9487372	.9744481	.9878333	.9950267	.9983581	.9995681	.9994675
4	.7891545	.8536975	.9010519	.9344837	.9577837	.9738025	.9833893	.9890114
5	.6888848	.7151911	.7913655	.8511781	.8964232	.9895450	.9530934	.9693954
6	.4407446	.5459056	.6423413	.7260096	.7956650	.8513677	.8943978	.9066188
7	.2741542	.3766300	.4763616	.5703938	.6601624	.7360208	.8011754	.8538078
8	.1501514	.2342052	.3311302	.4317904	.5068509	.5956589	.6756186	.7475310
9	.0803648	.1311501	.1964255	.2732108	.3579627	.4467699	.5537445	.6165943
10	.0367691	.0665094	.1090841	.1645800	.2318649	.3004656	.3900705	.4758658
11	.0159111	.0306113	.0551091	.0905140	.1376869	.1962999	.2648058	.3406678
12	.0057135	.0128039	.0253985	.0455335	.0749099	.1149619	.1657057	.2264683
13	.0019562	.0048896	.0107012	.0220832	.0375147	.0661977	.0957531	.1394420
14	.0006187	.0017101	.0041764	.0098846	.0172695	.0300255	.0511227	.0795078
15	.0001762	.0005496	.0014705	.0039619	.0073297	.0141521	.0252446	.0430961
16	.0000466	.0001627	.0004820	.0014463	.0028739	.0060092	.0115444	.0220596
17	.0000114	.0000445	.0001460	.0004147	.0010430	.0023638	.0048958	.0093716
18	.0000026	.0000113	.0000399	.0001125	.0003510	.0008668	.0019881	.0037635
19	.0000005	.0000026	.0000102	.0000286	.0001097	.0002987	.0007061	.0013999
20	.0000001	.0000006	.0000024	.0000069	.0000319	.0000984	.0002408	.0004719
21		.0000001	.0000005	.0000014	.0000086	.0000312	.0000765	.0001556
22			.0000001	.0000003	.0000022	.0000075	.0000227	.0000524
23				.0000001	.0000005	.0000019	.0000063	.0000166
24					.0000001	.0000005	.0000016	.0000050
25						.0000001	.0000004	.0000014
26							.0000001	.0000003
27								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999838	.9999918	.9999960	.9999981	.9999991	.9999996	.9999998	.9999999
2	.9997000	.9998853	.9999408	.9999668	.9999788	.9999894	.9999953	.9999980
3	.9985733	.9992074	.9995655	.9997650	.9998745	.9999339	.9999656	.9999823
4	.9938774	.9963799	.9979928	.9987919	.9993176	.9996301	.9998015	.9999082
5	.9804119	.9876906	.9933966	.9953863	.9972451	.9983819	.9990637	.9994668
6	.9500740	.9667092	.9780259	.9880207	.9911849	.9945376	.9966721	.9980068
7	.8941498	.9252581	.9483037	.9649485	.9766866	.9847806	.9908431	.9953552
8	.8074241	.8563655	.8951613	.9250610	.9475064	.9639442	.9757035	.9839308
9	.6910640	.7580675	.8141156	.8602442	.8970074	.9357441	.9474737	.9635579
10	.5579560	.6367945	.7064348	.7684205	.8311398	.8646893	.8996908	.9271091
11	.4207189	.5015921	.5801190	.6536408	.7201949	.7785063	.8303368	.8695403
12	.2955070	.3701658	.4481525	.5250180	.6006603	.6704057	.7333713	.7885602
13	.1928237	.2551425	.3242938	.3979951	.4735746	.5483557	.6190179	.6862877
14	.1169600	.1636989	.2192710	.2804630	.3514310	.4238985	.4973974	.5695141
15	.0658394	.0977448	.1383279	.1875615	.2447487	.3085590	.3771500	.4483504
16	.0344375	.0543116	.0813660	.1163055	.1596739	.2109641	.2693958	.3356638
17	.0167346	.0280928	.0446253	.0674519	.0974814	.1352654	.1808835	.2338806
18	.0075685	.0135351	.0238252	.0376086	.0556664	.0819402	.1140000	.1546572
19	.0031878	.0060788	.0118935	.0194584	.0297288	.0457183	.0673995	.0955879
20	.0012517	.0025468	.0056539	.0097208	.0148512	.0240862	.0373566	.0556081
21	.0004586	.0009963	.0025806	.0046520	.0069416	.0118034	.0194089	.0303577
22	.0001569	.0003641	.0011863	.0021594	.0030368	.0054915	.0094527	.0155491
23	.0000502	.0001244	.0005262	.0009653	.0012439	.0023775	.0043160	.0074718
24	.0000150	.0000398	.0002275	.0004227	.0004773	.0009646	.0018477	.0033684
25	.0000042	.0000119	.0000955	.0001755	.0001716	.0003668	.0007417	.0014847
26	.0000011	.0000033	.0000393	.0000720	.0000578	.0001308	.0002793	.0005653
27	.0000003	.0000009	.0000156	.0000291	.0000183	.0000437	.0000986	.0002105
28	.0000001	.0000002	.0000061	.0000114	.0000054	.0000135	.0000327	.0000735
29			.0000023	.0000043	.0000015	.0000040	.0000101	.0000241
30				.0000001	.0000004	.0000011	.0000030	.0000074
31					.0000001	.0000003	.0000008	.0000021
32						.0000001	.0000002	.0000006
33								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999910	.9999955	.9999978	.9999989	.9999995	.9999998	.9999999	.9999999
4	.9999304	.9999644	.9999836	.9999916	.9999958	.9999980	.9999990	.9999995
5	.9997009	.9998348	.9999101	.9999518	.9999745	.9999868	.9999933	.9999966
6	.9988249	.9993185	.9996110	.9997815	.9998792	.9999342	.9999648	.9999814
7	.9961947	.9978858	.9988155	.9991853	.9995285	.9997316	.9998497	.9999179

$$I(a,b,p) = \sum_{i=a}^{n} \binom{n}{i} p^i (1-p)^{n-i} \qquad n = 50$$

k	.25	.26	.27	.28	.29	.30	.31	.32
8	.9895637	.9931427	.9958875	.9974301	.9984448	.9990741	.9994583	.9996884
9	.9751928	.9841038	.9891251	.9930938	.9955685	.9972425	.9983153	.9990885
10	.9480440	.9636754	.9750778	.9832156	.9889061	.9927944	.9954058	.9971828
11	.9084083	.9289833	.9490920	.9648036	.9758941	.9832626	.9888602	.9927309
12	.8556283	.8746837	.9062976	.9318868	.9505348	.9650687	.9757856	.9853857
13	.7860490	.8093788	.8439750	.8800364	.9100831	.9338709	.9522749	.9661901
14	.6981017	.7014359	.7583003	.8000048	.8503477	.8855361	.9140863	.9357177
15	.5969737	.5895268	.6553980	.7159645	.7701797	.8174788	.8577126	.8911346
16	.4916457	.4715737	.5418108	.6085841	.6719457	.7299629	.7817307	.8267619
17	.3933701	.3576015	.4250845	.4937468	.5616053	.6408963	.6978946	.7435080
18	.3018045	.2563140	.3164367	.3907858	.4476003	.5150336	.5911735	.6443730
19	.2308046	.1733765	.2286789	.2970843	.3509633	.4038190	.4893387	.5355954
20	.1797042	.1103191	.1478361	.2222669	.2732048	.3098217	.3909161	.4349939
21	.1456839	.0860789	.0934783	.1653644	.2111954	.2634950	.3209623	.3809423
22	.1215865	.0673116	.0544534	.1220460	.1656561	.2140806	.2703061	.3300448
23	.1033706	.0519627	.0391611	.0904097	.1277769	.1721858	.2191358	.2761440
24	.0858660	.0397907	.0279073	.0668549	.0982695	.1384370	.1735347	.2301986
25	.0686098	.0304581	.0200884	.0494404	.0754164	.1113945	.1402102	.1907077
26	.0540894	.0230051	.0145361	.0365918	.0579703	.0895085	.1134850	.1569023
27	.0424869	.0173857	.0105278	.0271183	.0446312	.0720263	.0918312	.1287794
28	.0331570	.0130192	.0076198	.0201156	.0343622	.0579966	.0743705	.1054706
29	.0258548	.0097158	.0055168	.0149208	.0264626	.0466954	.0602154	.0863180
30	.0200175	.0072194	.0039944	.0110788	.0203389	.0375384	.0487580	.0706866
31	.0154953	.0053631	.0028917	.0082201	.0156350	.0302464	.0394673	.0578548
32	.0119615	.0039838	.0020939	.0060962	.0120232	.0243693	.0319770	.0473380
33	.0092004	.0029581	.0015156	.0045216	.0092401	.0196303	.0258629	.0387155
34	.0070601	.0021968	.0010971	.0033525	.0070996	.0158096	.0209120	.0316455
35	.0054053	.0016301	.0007940	.0024850	.0054553	.0127324	.0169096	.0258743
36	.0041299	.0012089	.0005746	.0018414	.0041900	.0102538	.0136719	.0211343
37	.0031477	.0008959	.0004157	.0013639	.0032170	.0082586	.0110519	.0172548
38	.0023956	.0006636	.0003007	.0010099	.0024697	.0066491	.0089307	.0140790
39	.0018203	.0004911	.0002174	.0007473	.0018956	.0053534	.0072140	.0114864
40	.0013809	.0003631	.0001571	.0005525	.0014543	.0043079	.0058253	.0093662
41	.0010457	.0002680	.0001134	.0004081	.0011154	.0034661	.0046996	.0076337
42	.0007895	.0001975	.0000818	.0003010	.0008553	.0027861	.0037889	.0062145
43	.0005945	.0001452	.0000589	.0002217	.0006553	.0022373	.0030519	.0050519
44	.0004459	.0001065	.0000423	.0001629	.0005017	.0017933	.0024561	.0040996
45	.0003337	.0000779	.0000303	.0001195	.0003836	.0014365	.0019744	.0033208
46	.0002487	.0000568	.0000216	.0000874	.0002928	.0011494	.0015851	.0026849
47	.0001847	.0000412	.0000153	.0000637	.0002229	.0009178	.0012707	.0021661
48	.0001367	.0000297	.0000108	.0000462	.0001693	.0007312	.0010161	.0017433
49	.0001005	.0000213	.0000075	.0000333	.0001280	.0005816	.0008113	.0013999
50	.0000735	.0000152	.0000052	.0000238	.0000965	.0004618	.0006469	.0011230

k	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999968	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999983	.9999998	.9999998	.9999998	.9999999	1.0000000	1.0000000	1.0000000
6	.9999984	.9999951	.9999975	.9999986	.9999994	.9999997	.9999999	.9999999
7	.9999951	.9999761	.9999875	.9999935	.9999967	.9999984	.9999998	.9999996
8	.9999818	.9999020	.9999465	.9999712	.9999848	.9999921	.9999980	.9999980
9	.9994033	.9996540	.9998089	.9998897	.9999301	.9999678	.9999826	.9999909
10	.9983296	.9989101	.9993649	.9996897	.9998000	.9999008	.9999643	.9999843
11	.9953396	.9970695	.9984857	.9993906	.9998435	.9999158	.9999793	.9999756
12	.9889975	.9927865	.9953573	.9979066	.9994806	.9998904	.9999388	.9998120
13	.9765015	.9839693	.9899265	.9944446	.9984488	.9997189	.9998103	.9998092
14	.9548552	.9675475	.9774055	.9884619	.9956484	.9993890	.9996030	.9997152
15	.9188501	.9397513	.9564930	.9769888	.9894553	.9985750	.9991859	.9995045
16	.8650484	.8967936	.9225383	.9499843	.9587340	.9797233	.9976206	.9986833
17	.7929800	.8359360	.8733179	.9034819	.9268836	.9461967	.9911503	.9954776
18	.7039130	.7566385	.8039791	.8449408	.8795665	.9001735	.9312808	.9895346
19	.6006387	.6613204	.7180923	.7694181	.8147258	.8537961	.8867814	.9136456
20	.4903805	.5551606	.6182968	.6777474	.7335510	.7818778	.8259455	.8695035
21	.3831891	.4461900	.5100247	.5746179	.6360088	.6937198	.7466370	.7940473
22	.2835506	.3417454	.4033586	.4668844	.5307506	.5933740	.6533009	.7009921
23	.1992896	.2488098	.3033961	.3633115	.4239537	.4871429	.5502877	.6116951
24	.1328345	.1717931	.2168116	.2674940	.3230532	.3824017	.4443160	.5070259
25	.0836763	.1132784	.1460780	.1875760	.2341646	.2861074	.3485490	.4035568
26	.0497445	.0693564	.0941589	.1246406	.1610785	.2034806	.2515487	.3046655
27	.0278896	.0404416	.0570371	.0783468	.1049476	.1373568	.1754664	.2194988
28	.0147331	.0223359	.0336065	.0465198	.0646561	.0876472	.1160149	.1501037
29	.0073274	.0118175	.0175723	.0260596	.0376134	.0528981	.0728737	.0972318
30	.0034282	.0056150	.0089187	.0137570	.0206348	.0301314	.0428848	.0595880
31	.0015027	.0025744	.0043590	.0068368	.0106689	.0161776	.0230034	.0344385
32	.0006288	.0011090	.0019119	.0031953	.0051846	.0081771	.0125507	.0187666
33	.0002415	.0004465	.0008000	.0014010	.0023693	.0038865	.0061997	.0096888
34	.0000878	.0001701	.0003188	.0005781	.0010165	.0017349	.0028775	.0046195
35	.0000299	.0000605	.0001182	.0002333	.0004090	.0007264	.0012933	.0021024
36	.0000095	.0000201	.0000410	.0000868	.0001541	.0002880	.0005115	.0008983
37	.0000028	.0000065	.0000133	.0000273	.0000543	.0001046	.0001954	.0003545
38	.0000008	.0000018	.0000040	.0000086	.0000179	.0000358	.0000697	.0001316
39	.0000002	.0000005	.0000011	.0000025	.0000055	.0000115	.0000238	.0000456
40		.0000001	.0000003	.0000007	.0000016	.0000034	.0000078	.0000147
41			.0000001	.0000002	.0000004	.0000009	.0000021	.0000044
42					.0000001	.0000002	.0000006	.0000013
43						.0000001	.0000001	.0000003
44								.0000001

k	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999990	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999954	.9999977	.9999989	.9999994	.9999997	.9999999	.9999999	1.0000000
10	.9999810	.9999901	.9999949	.9999975	.9999987	.9999994	.9999997	.9999999
11	.9999312	.9999626	.9999801	.9999896	.9999947	.9999973	.9999987	.9999994
12	.9997768	.9998741	.9999303	.9999628	.9999799	.9999895	.9999947	.9999973
13	.9993478	.9996176	.9997801	.9998761	.9999315	.9999630	.9999804	.9999898

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 59$$

k\p	.41	.42	.43	.44	.45	.46	.47	.48
14	.9982700	.9989460	.9993704	.9996313	.9997884	.9998811	.9999345	.9999647
15	.9958089	.9973481	.9983547	.9989995	.9994038	.9996519	.9998010	.9998886
16	.9906783	.9938767	.9960562	.9975102	.9984595	.9990663	.9994458	.9996779
17	.9808736	.9869640	.9912879	.9942922	.9963351	.9976944	.9985794	.9991430
18	.9636395	.9743023	.9821090	.9879967	.9919384	.9947305	.9966362	.9978942
19	.9356951	.9529085	.9661730	.9761718	.9835448	.9888631	.9926153	.9952043
20	.8937909	.9194782	.9401007	.9562923	.9687254	.9780628	.9849208	.9898463
21	.8355511	.8710619	.9007636	.9250530	.9444756	.9596624	.9712740	.9799547
22	.7603894	.8059504	.8456523	.8794692	.9076264	.9305528	.9487992	.9629975
23	.6701782	.7245099	.7738405	.8176055	.8555551	.8877215	.9143737	.9359610
24	.5693177	.6296385	.6856913	.7394113	.7870160	.8290267	.8652630	.8958151
25	.4641898	.5365885	.5880751	.6472539	.7028990	.7540278	.7999365	.8402237
26	.3619127	.4221171	.4839226	.5458807	.6065485	.6645847	.7188330	.7613051
27	.2689700	.3231879	.3811756	.4417225	.5034593	.5649486	.6247813	.6816686
28	.1900299	.2356300	.2864401	.3416976	.4003701	.4612123	.5228426	.5838347
29	.1273366	.1631682	.2047634	.2518793	.3039751	.3602203	.4195301	.4806253
30	.0807654	.1070771	.1388983	.1764408	.2196672	.2682570	.3215949	.3787847
31	.0484024	.0664594	.0892105	.1171677	.1506880	.1899179	.2347467	.2847780
32	.0273638	.0389442	.0541451	.0736005	.0978916	.1274899	.1626992	.2036010
33	.0145713	.0215100	.0309989	.0436482	.0600942	.0809580	.1067944	.1380350
34	.0072979	.0111806	.0167124	.0243930	.0347918	.0485266	.0662323	.0885166
35	.0034327	.0054607	.0084708	.0128238	.0189609	.0274003	.0387257	.0535624
36	.0015142	.0025021	.0040298	.0063309	.0097090	.0145457	.0213023	.0305157
37	.0006254	.0010739	.0017964	.0029298	.0046626	.0072455	.0110018	.0163331
38	.0002414	.0004309	.0007490	.0012687	.0020960	.0033799	.0053236	.0081951
39	.0000870	.0001614	.0002915	.0005130	.0008802	.0014734	.0024084	.0038460
40	.0000292	.0000563	.0001057	.0001933	.0003446	.0005990	.0010163	.0016853
41	.0000091	.0000183	.0000356	.0000677	.0001254	.0002265	.0003991	.0006867
42	.0000026	.0000055	.0000113	.0000220	.0000424	.0000795	.0001455	.0002599
43	.0000007	.0000015	.0000032	.0000066	.0000132	.0000258	.0000491	.0000910
44	.0000002	.0000004	.0000009	.0000019	.0000038	.0000077	.0000153	.0000294
45		.0000001	.0000002	.0000005	.0000010	.0000021	.0000044	.0000087
46				.0000001	.0000002	.0000005	.0000011	.0000024
47					.0000001	.0000001	.0000003	.0000006
48							.0000001	.0000001

k\p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	.9999999	1.0000000
11	.9999997	.9999999
12	.9999987	.9999994
13	.9999948	.9999974
14	.9999814	.9999904
15	.9999390	.9999673
16	.9998169	.9998981
17	.9994941	.9997078
18	.9987096	.9992264
19	.9969511	.9981031
20	.9933051	.9956795
21	.9862990	.9908315
22	.9737981	.9818284
23	.9530523	.9662777
24	.9209875	.9413613
25	.8747761	.9037368
26	.8126175	.8512084
27	.7345208	.7825036
28	.6428124	.6985384
29	.5421131	.6025782
30	.4386903	.5000000
31	.3393233	.3974218
32	.2500124	.3014616
33	.1749299	.2174964
34	.1159079	.1487976
35	.0725434	.0969632
36	.0427835	.0587387
37	.0237215	.0337223
38	.0123369	.0181716
39	.0060043	.0091685
40	.0027281	.0043207
41	.0011543	.0018969
42	.0004535	.0007736
43	.0001650	.0002922
44	.0000554	.0001019
45	.0000171	.0000327
46	.0000048	.0000096
47	.0000012	.0000026
48	.0000003	.0000006
49	.0000001	.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 60

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.4528434	.7024469	.8391933	.9136477	.9539302	.9755843	.9871478	.9932815
2	.1212333	.3380961	.5407892	.6977665	.8084466	.8820760	.9291057	.9582207
3	.0234202	.1187420	.2685339	.4324134	.5825642	.7060044	.8002272	.8683106
4	.0031233	.0321943	.1057421	.2186565	.3527190	.4897236	.6126837	.7171439
5	.0003456	.0070246	.0319962	.0917383	.1803351	.2910905	.4115280	.5298256
6	.0000315	.0012716	.0091440	.0325098	.0787193	.1498039	.2419517	.3473999
7	.0000024	.0001954	.0020983	.0098878	.0296941	.0671361	.1249501	.2019856
8	.0000002	.0000259	.0004172	.0026164	.0097891	.0264305	.0570137	.1044407
9		.0000030	.0000728	.0006092	.0028486	.0093171	.0231368	.0482463
10		.0000003	.0000113	.0001260	.0007380	.0028690	.0084042	.0200134
11			.0000016	.0000233	.0001715	.0008024	.0027488	.0074927
12			.0000002	.0000039	.0000360	.0002029	.0008139	.0025438
13				.0000006	.0000068	.0000466	.0002192	.0007866
14				.0000001	.0000012	.0000098	.0000539	.0002224
15					.0000002	.0000019	.0000122	.0000577
16						.0000003	.0000025	.0000138
17						.0000001	.0000005	.0000030
18							.0000001	.0000006
19								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9965127	.9982030	.9990808	.9995334	.9997650	.9998825	.9999418	.9999714
2	.9758193	.9862239	.9922644	.9957156	.9976576	.9987352	.9993252	.9996442
3	.9154439	.9469549	.9674114	.9803577	.9883685	.9932254	.9961156	.9978059
4	.8000011	.8626014	.9080248	.9398688	.9615331	.9758843	.9851652	.9910364
5	.6373028	.7290417	.8034310	.8611915	.9043923	.9356570	.9576280	.9726619
6	.4570832	.5628341	.6586450	.7410298	.8087635	.8623125	.9032015	.9334631
7	.2936973	.3935486	.4946084	.5906277	.6777778	.7528642	.8151587	.8650206
8	.1690418	.2484467	.3382075	.4326228	.5267093	.6154176	.6953021	.7644521
9	.0873654	.1416356	.2101433	.2900798	.3773193	.4671829	.5551756	.6375442
10	.0408527	.0730655	.1186517	.1776156	.2482750	.3277581	.4123016	.4978783
11	.0171513	.0342091	.0610463	.0994619	.1499344	.2120031	.2837150	.3622029
12	.0065683	.0145847	.0286611	.0509223	.0831408	.1263492	.1805706	.2447351
13	.0022944	.0056810	.0123172	.0239280	.0423865	.0694127	.1062460	.1533718
14	.0007336	.0020282	.0048585	.0103365	.0199014	.0351826	.0578173	.0891152
15	.0002154	.0006657	.0017637	.0041144	.0086219	.0164863	.0291263	.0480264
16	.0000583	.0002014	.0005907	.0015124	.0034532	.0071492	.0135995	.0240253
17	.0000146	.0000563	.0001829	.0005145	.0012810	.0028742	.0058931	.0111676
18	.0000034	.0000146	.0000525	.0001623	.0004405	.0010736	.0023733	.0048088
19	.0000007	.0000035	.0000140	.0000475	.0001410	.0003725	.0008894	.0019444
20	.0000001	.0000008	.0000035	.0000130	.0000420	.0001204	.0003106	.0007300
21		.0000002	.0000008	.0000033	.0000117	.0000363	.0001012	.0002558
22			.0000002	.0000008	.0000030	.0000102	.0000308	.0000837
23				.0000002	.0000007	.0000027	.0000087	.0000256
24					.0000002	.0000007	.0000023	.0000073
25						.0000001	.0000006	.0000020
26							.0000001	.0000005
27								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999860	.9999933	.9999968	.9999985	.9999993	.9999997	.9999998	.9999999
2	.9998146	.9999045	.9999513	.9999755	.9999878	.9999940	.9999971	.9999986
3	.9987785	.9993294	.9996368	.9998059	.9998977	.9999467	.9999726	.9999861
4	.9946757	.9968888	.9982106	.9989865	.9994346	.9996892	.9998316	.9999100
5	.9827010	.9892547	.9934433	.9960674	.9976803	.9986538	.9992311	.9995677
6	.9552314	.9704859	.9809189	.9878938	.9924576	.9953832	.9972223	.9983567
7	.9036569	.9327193	.9539889	.9691627	.9797313	.9869271	.9917219	.9948514
8	.8221675	.8687662	.9052583	.9330384	.9536342	.9605282	.9790477	.9863122
9	.7115922	.7757612	.8295305	.8732076	.9076754	.9341481	.9539666	.9684472
10	.5807373	.6576036	.7268979	.7867852	.8370888	.8781213	.9106809	.9355515
11	.4440492	.5257487	.6041190	.6765967	.7413945	.7975290	.8447405	.8833551
12	.3167930	.3939866	.4732099	.5511825	.6257693	.6942054	.7552110	.8080015
13	.2103629	.2758027	.3470227	.4235597	.5093643	.5752067	.6660122	.7108551
14	.1298745	.1801538	.2392252	.3055694	.3970812	.4512791	.5755771	.6173397
15	.0745301	.1096165	.1537071	.2065418	.2671520	.3339337	.4848069	.4774297
16	.0397675	.0621296	.0921904	.1306207	.1775308	.2324350	.2941793	.3611125
17	.0197424	.0328128	.0516064	.0772386	.1105416	.1519191	.2012413	.2578046
18	.0091267	.0161555	.0269672	.0426973	.0644467	.0931413	.1293901	.1733671
19	.0039325	.0074209	.0131605	.0220688	.0351755	.0535375	.0781197	.1096687
20	.0015808	.0031826	.0060014	.0106683	.0179755	.0288452	.0442565	.0652033
21	.0005934	.0012753	.0025589	.0048257	.0086026	.0145680	.0235369	.0364178
22	.0002082	.0004779	.0010208	.0020435	.0038568	.0068978	.0117427	.0191032
23	.0000683	.0001675	.0003812	.0008105	.0016204	.0030626	.0054974	.0094103
24	.0000210	.0000550	.0001333	.0003018	.0006383	.0012754	.0024154	.0043532
25	.0000060	.0000169	.0000437	.0001050	.0002358	.0004983	.0009961	.0018912
26	.0000016	.0000049	.0000134	.0000343	.0000817	.0001827	.0003856	.0007716
27	.0000004	.0000013	.0000039	.0000105	.0000266	.0000620	.0001402	.0002956
28	.0000001	.0000003	.0000010	.0000030	.0000081	.0000203	.0000478	.0001064
29		.0000001	.0000003	.0000008	.0000023	.0000062	.0000153	.0000360
30			.0000001	.0000002	.0000006	.0000018	.0000046	.0000114
31					.0000002	.0000005	.0000013	.0000034
32						.0000001	.0000003	.0000009
33							.0000001	.0000002
34								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999931	.9999966	.9999983	.9999992	.9999996	.9999998	.9999999	1.0000000
4	.9999526	.9999754	.9999874	.9999937	.9999968	.9999985	.9999993	.9999996
5	.9997606	.9998695	.9999299	.9999629	.9999807	.9999901	.9999950	.9999975
6	.9990439	.9994827	.9996918	.9998292	.9999068	.9999500	.9999736	.9999863

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 60$$

p	.25	.26	.27	.28	.29	.30	.31	.32
7	.9968537	.9981103	.9988043	.9993523	.9996302	.9997924	.9998854	.9999377
8	.9912219	.9944719	.9965803	.9979216	.9987586	.9992714	.9995796	.9997616
9	.9787850	.9860027	.9909347	.9942355	.9964002	.9977920	.9986696	.9992125
10	.9548325	.9688100	.9788703	.9859533	.9908345	.9941288	.9963073	.9977194
11	.9141132	.9380025	.9561132	.9695269	.9792404	.9861231	.9908947	.9941362
12	.8524173	.8888013	.9178540	.9404904	.9577150	.9705248	.9796413	.9866714
13	.7684424	.8182132	.8600721	.8943814	.9218141	.9432293	.9595638	.9717429
14	.6650886	.7266393	.7811624	.8281737	.8676710	.9000265	.9259248	.9461514
15	.5494307	.6186247	.6831816	.7417350	.7934264	.8378918	.8751865	.9057212
16	.4312027	.5022413	.5720472	.6386506	.7004535	.7562159	.8058851	.8473740
17	.3203640	.3872340	.4564408	.5259018	.5956040	.6577673	.7169562	.7701516
18	.2247384	.2826488	.3457716	.4124149	.4806674	.5485637	.6142446	.6760943
19	.1485921	.1948662	.2479886	.3069847	.3704703	.4367601	.5040075	.5703566
20	.0924843	.1266981	.1680420	.2163517	.2709743	.3308409	.3945271	.4603633
21	.0541439	.0775813	.1074249	.1440971	.1876640	.2377833	.2936941	.3542521
22	.0298009	.0447171	.0647201	.0905752	.1228484	.1618179	.2074050	.2591384
23	.0154163	.0248476	.0367201	.0538775	.0759173	.1041039	.1396807	.1757923
24	.0074944	.0133652	.0196098	.0299702	.0443467	.0632391	.0876679	.1181011
25	.0034234	.0059289	.0098535	.0157569	.0243038	.0362375	.0523348	.0733449
26	.0014693	.0026725	.0046572	.0077974	.0125741	.0195743	.0294758	.0430158
27	.0005925	.0011323	.0020700	.0036306	.0061246	.0099609	.0156509	.0238029
28	.0002245	.0004509	.0008651	.0015900	.0028074	.0047727	.0078293	.0124174
29	.0000799	.0001687	.0003398	.0006548	.0012105	.0021521	.0036878	.0061028
30	.0000267	.0000593	.0001254	.0002535	.0004906	.0009129	.0016346	.0028838
31	.0000084	.0000196	.0000435	.0000922	.0001870	.0003640	.0006814	.0012893
32	.0000025	.0000061	.0000142	.0000315	.0000669	.0001364	.0002670	.0005032
33	.0000007	.0000018	.0000043	.0000101	.0000225	.0000480	.0000983	.0001935
34	.0000002	.0000005	.0000012	.0000030	.0000071	.0000158	.0000339	.0000699
35		.0000001	.0000003	.0000009	.0000021	.0000049	.0000110	.0000237
36			.0000001	.0000002	.0000006	.0000014	.0000032	.0000075
37				.0000001	.0000002	.0000004	.0000009	.0000022
38						.0000001	.0000003	.0000005
39							.0000001	.0000002

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999988	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
6	.9999930	.9999965	.9999982	.9999991	.9999996	.9999998	.9999999	1.0000000
7	.9999668	.9999825	.9999910	.9999954	.9999977	.9999989	.9999995	.9999997
8	.9998671	.9999272	.9999608	.9999793	.9999892	.9999945	.9999972	.9999986
9	.9995420	.9997304	.9998531	.9999190	.9999562	.9999767	.9999873	.9999930
10	.9986169	.9991762	.9995182	.9997233	.9998440	.9999136	.9999531	.9999750
11	.9968930	.9976994	.9985984	.9991618	.9995079	.9997165	.9998397	.9999111
12	.9910902	.9942414	.9963772	.9977261	.9986109	.9991673	.9995102	.9997174
13	.9806265	.9869672	.9913974	.9944385	.9964596	.9977928	.9986502	.9991905
14	.9615972	.9731309	.9815564	.9875796	.9917946	.9946824	.9966198	.9978928
15	.9301318	.9492020	.9637669	.9746463	.9825967	.9888823	.9922620	.9949808
16	.8826050	.9113992	.9343914	.9523363	.9660309	.9762539	.9837177	.9890510
17	.8167679	.8566281	.8899045	.9170412	.9386676	.9555160	.9683538	.9779198
18	.7328387	.7835999	.8279046	.8656556	.8970734	.9226223	.9429299	.9587110
19	.6340862	.6937285	.7481527	.7966083	.8387169	.8744595	.9040926	.9201212
20	.5265677	.5913869	.6532252	.7107489	.7629557	.8092068	.8492811	.8830403
21	.4180062	.4833080	.5484400	.6117445	.6717417	.7272198	.7772943	.8214298
22	.3161574	.3772566	.4409679	.5056685	.5697033	.6315054	.6897019	.7431942
23	.2272297	.2804080	.3383809	.3998938	.4634686	.5275107	.5904263	.6507339
24	.1548641	.1979782	.2471162	.3015923	.3603864	.4222034	.4855606	.5488936
25	.0999149	.1325131	.1713548	.2163465	.2670534	.3226992	.3821991	.4442244
26	.0609420	.0839499	.1126106	.1472974	.1881204	.2348788	.2870388	.3437420
27	.0351017	.0502726	.0700297	.0950126	.1257160	.1624215	.2051385	.2553655
28	.0190748	.0284359	.0411572	.0579775	.0795640	.1064986	.1392006	.1778617
29	.0097713	.0151618	.0228343	.0334252	.0476186	.0661028	.0895155	.1163802
30	.0047149	.0076219	.0119474	.0181859	.0269162	.0387828	.0544635	.0716237
31	.0021415	.0036082	.0058899	.0093281	.0143523	.0214801	.0313062	.0444807
32	.0009148	.0016073	.0027334	.0045062	.0072116	.0112173	.0162783	.0230333
33	.0003673	.0006731	.0011930	.0020482	.0034110	.0055169	.0086766	.0132835
34	.0001385	.0002648	.0004893	.0008751	.0015170	.0025525	.0041732	.0066374
35	.0000490	.0000978	.0001884	.0003511	.0006338	.0011096	.0018867	.0031188
36	.0000162	.0000338	.0000680	.0001321	.0002484	.0004527	.0008008	.0013763
37	.0000050	.0000110	.0000230	.0000466	.0000912	.0001731	.0003187	.0005696
38	.0000015	.0000033	.0000073	.0000154	.0000313	.0000620	.0001187	.0002208
39	.0000004	.0000009	.0000021	.0000047	.0000101	.0000207	.0000413	.0000800
40	.0000001	.0000002	.0000006	.0000014	.0000030	.0000065	.0000134	.0000270
41		.0000001	.0000002	.0000004	.0000008	.0000019	.0000041	.0000085
42				.0000001	.0000003	.0000005	.0000011	.0000025
43					.0000001	.0000001	.0000003	.0000007
44							.0000001	.0000002

p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999969	.9999985	.9999993	.9999996	.9999998	.9999999	1.0000000	1.0000000
10	.9999869	.9999933	.9999966	.9999983	.9999992	.9999996	.9999998	.9999999
11	.9999516	.9999742	.9999865	.9999931	.9999965	.9999982	.9999992	.9999996
12	.9998401	.9999113	.9999517	.9999743	.9999866	.9999931	.9999966	.9999983

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 60

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
13	.9995237	.9997253	.9998447	.9999140	.9999533	.9999752	.9999871	.9999934
14	.9987119	.9992280	.9995465	.9997390	.9998528	.9999187	.9999561	.9999768
15	.9968180	.9980192	.9987915	.9992775	.9995769	.9997573	.9998638	.9999252
16	.9927819	.9953347	.9970446	.9981655	.9988844	.9993357	.9996127	.9997791
17	.9848935	.9898673	.9933363	.9957081	.9972911	.9983255	.9989866	.9993998
18	.9707055	.9796202	.9861015	.9907107	.9939169	.9960982	.9975495	.9984936
19	.9471523	.9618939	.9730599	.9813308	.9873219	.9915657	.9945051	.9964954
20	.9109716	.9335189	.9513118	.9650393	.9753941	.9830309	.9885372	.9924181
21	.8594294	.8913968	.9176786	.9387983	.9553880	.9681266	.9776880	.9847026
22	.7912057	.8332972	.8693502	.8995261	.9242096	.9439432	.9593623	.9711369
23	.7071613	.7587149	.8047195	.8448256	.8769881	.9074239	.9305536	.9489335
24	.6106681	.6694845	.7241654	.7738168	.8178586	.8560263	.8883450	.9150841
25	.5072922	.5698695	.6304801	.6878031	.7407521	.7885273	.8306399	.8669066
26	.4038463	.4659951	.5287082	.5904849	.6499066	.7057285	.7569517	.8028676
27	.3070765	.3647382	.4253568	.4875521	.5498494	.6107812	.6689856	.7239225
28	.2223953	.2724043	.3271764	.3857085	.4467603	.5089310	.5707538	.6307950
29	.1530408	.1936021	.2398844	.2913993	.3473529	.4066766	.4680870	.5301658
30	.0998596	.1306354	.1672203	.2096337	.2576057	.3105601	.3676244	.4276682
31	.0616713	.0835188	.1105763	.1432478	.1817286	.2259539	.2755654	.3299012
32	.0359896	.0505006	.0692232	.0927701	.1216500	.1562068	.1965615	.2425660
33	.0198162	.0288324	.0409517	.0568372	.0771030	.1023627	.1330697	.1695067
34	.0102800	.0155190	.0228556	.0328653	.0461779	.0634451	.0852965	.1122854
35	.0050174	.0076631	.0120147	.0179143	.0260848	.0371184	.0516538	.0703404
36	.0023008	.0037447	.0059394	.0091878	.0138724	.0204588	.0294913	.0415781
37	.0009898	.0016737	.0027567	.0044263	.0069335	.0106036	.0158430	.0231408
38	.0003989	.0007010	.0011994	.0018996	.0032509	.0051581	.0079923	.0121013
39	.0001503	.0002746	.0004882	.0008455	.0014273	.0023504	.0037785	.0059336
40	.0000529	.0001005	.0001856	.0003340	.0005856	.0010012	.0016706	.0027219
41	.0000173	.0000342	.0000658	.0001230	.0002240	.0003978	.0006892	.0011655
42	.0000053	.0000109	.0000217	.0000421	.0000798	.0001471	.0002647	.0004647
43	.0000015	.0000032	.0000066	.0000134	.0000263	.0000505	.0000944	.0001721
44	.0000004	.0000009	.0000019	.0000039	.0000081	.0000160	.0000311	.0000590
45	.0000001	.0000002	.0000005	.0000011	.0000023	.0000047	.0000095	.0000187
46		.0000001	.0000001	.0000003	.0000006	.0000013	.0000027	.0000054
47				.0000001	.0000001	.0000003	.0000007	.0000014
48						.0000001	.0000002	.0000004
49								.0000001

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	.9999998	.9999999
12	.9999992	.9999996
13	.9999967	.9999984
14	.9999880	.9999939
15	.9999598	.9999789
16	.9998767	.9999327
17	.9996522	.9998030
18	.9990940	.9994671
19	.9978108	.9986648
20	.9950916	.9968912
21	.9897320	.9932554
22	.9799235	.9863299
23	.9632177	.9740531
24	.9366991	.9537695
25	.8974196	.9224990
26	.8430752	.8774696
27	.7727882	.8168530
28	.6877495	.7405210
29	.5914558	.6505583
30	.4893675	.5512891
31	.3880131	.4487109
32	.2937747	.3494417
33	.2117203	.2594790
34	.1448287	.1831470
35	.0937920	.1225304
36	.0573658	.0775010
37	.0330619	.0452305
38	.0179154	.0253469
39	.0091072	.0133701
40	.0043334	.0067446
41	.00192[illegible]	[illegible]3108[illegible]
42	.000796[illegible]	[illegible]13352
43	.000300[illegible]	.0005329
44	.0001091	.0001970
45	.0000359	.0000673
46	.0000108	.0000211
47	.0000030	.0000061
48	.0000008	.0000016
49	.0000002	.0000004
50		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 61

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.4583149	.7083979	.8440175	.9171018	.9562337	.9770491	.9880475	.9938190
2	.1245494	.3453031	.5497413	.7064021	.8157208	.8876873	.9331686	.9610329
3	.0234083	.1331291	.2767015	.4410276	.5938584	.7165688	.8092487	.8755040
4	.0033165	.0398251	.1106258	.2272068	.3643113	.5017604	.6258117	.7292372
5	.0003735	.0075280	.0361485	.0968150	.1889543	.3029485	.4256089	.5448139
6	.0000347	.0013867	.0098895	.0348789	.0838001	.1582810	.2538220	.3619942
7	.0000027	.0002169	.0023096	.0107927	.0321454	.0720962	.1331402	.2136188
8	.0000002	.0000293	.0004677	.0029073	.0107844	.0288728	.0617692	.1132443
9		.0000035	.0000831	.0006895	.0031956	.0102499	.0255082	.0527419
10		.0000004	.0000131	.0001454	.0008436	.0032499	.0094355	.0222720
11			.0000019	.0000275	.0001998	.0009264	.0031447	.0084943
12			.0000002	.0000047	.0000428	.0002388	.0009493	.0029397
13				.0000007	.0000083	.0000560	.0002608	.0009272
14				.0000001	.0000015	.0000120	.0000655	.0002675
15					.0000002	.0000023	.0000151	.0000709
16						.0000004	.0000032	.0000173
17						.0000001	.0000006	.0000039
18							.0000001	.0000008
19								.0000002

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9964266	.9983827	.9991819	.9995694	.9997955	.9998990	.9999505	.9999760
2	.9776816	.9874209	.9930142	.9961737	.9979316	.9989058	.9994177	.9996966
3	.9208777	.9508817	.9701453	.9822007	.9895761	.9939967	.9965971	.9981001
4	.8103909	.8710368	.9145573	.9447275	.9650217	.9783120	.9868077	.9921195
5	.6519457	.7423977	.8149363	.8706328	.9118206	.9412889	.9617585	.9756018
6	.4733030	.5794549	.6745714	.7554492	.8211953	.8725807	.9113655	.9397349
7	.3084021	.4104772	.5126524	.6088519	.6948059	.7681870	.8283651	.8759714
8	.1802608	.2629569	.3554116	.4517834	.5464178	.6346601	.7132806	.7805430
9	.0947160	.1523167	.2242303	.3072090	.3967504	.4879358	.5761946	.6578494
10	.0446932	.0799225	.1287514	.1911113	.2650508	.3472776	.4337327	.5202249
11	.0192700	.0380948	.0673873	.1087876	.1627186	.2282088	.3030030	.3839110
12	.0075208	.0165471	.0322237	.0567399	.0918240	.1383408	.1960423	.2635299
13	.0026790	.0065714	.0141151	.0271673	.0476846	.0773838	.1173947	.1679894
14	.0008741	.0023935	.0056790	.0119675	.0228244	.0399809	.0650816	.0993962
15	.0002621	.0008019	.0021041	.0048610	.0100882	.0191048	.0334300	.0546006
16	.0000734	.0002478	.0007197	.0018246	.0041251	.0084564	.0159285	.0278655
17	.0000185	.0000708	.0002278	.0006342	.0015634	.0034727	.0070491	.0132248
18	.0000044	.0000187	.0000668	.0002045	.0005501	.0013251	.0029012	.0058430
19	.0000010	.0000046	.0000182	.0000613	.0001800	.0004706	.0011120	.0024059
20	.0000002	.0000011	.0000046	.0000171	.0000549	.0001557	.0003974	.0009243
21		.0000002	.0000011	.0000045	.0000156	.0000481	.0001326	.0003316
22			.0000002	.0000011	.0000041	.0000139	.0000413	.0001112
23				.0000002	.0000010	.0000037	.0000120	.0000349
24				.0000001	.0000002	.0000009	.0000033	.0000103
25					.0000001	.0000002	.0000008	.0000028
26							.0000002	.0000007
27								.0000002

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999884	.9999945	.9999974	.9999988	.9999994	.9999997	.9999999	.9999999
2	.9998437	.9999204	.9999600	.9999801	.9999902	.9999952	.9999977	.9999989
3	.9989546	.9994329	.9996966	.9998399	.9999166	.9999571	.9999783	.9999891
4	.9953732	.9973281	.9984816	.9991504	.9995318	.9997458	.9998640	.9999283
5	.9847367	.9906288	.9943491	.9966512	.9980487	.9988816	.9993692	.9996498
6	.9599013	.9738642	.9832986	.9895285	.9935544	.9961027	.9976843	.9986474
7	.9124246	.9395173	.9591056	.9729089	.9824038	.9887875	.9939870	.9956927
8	.8360207	.8802777	.9145172	.9402633	.9591146	.9725759	.9819627	.9883616
9	.7303900	.7925021	.8439188	.8851737	.9173267	.9417117	.9597352	.9727348
10	.6029827	.6790360	.7463981	.8040697	.8519120	.8904472	.9206366	.9436744
11	.4672862	.5495186	.6274470	.6986344	.7614906	.8152593	.8599068	.8959542
12	.3384266	.4177037	.4980826	.5764254	.6500507	.7169366	.7758028	.8260864
13	.2284540	.2971414	.3716463	.4491243	.5266203	.6013865	.6711279	.7341550
14	.1435575	.1973691	.2598587	.3291675	.4029496	.4785432	.5532772	.6247306
15	.0839386	.1223141	.1699556	.2263473	.2902371	.3597497	.4325841	.5062561
16	.0456772	.0706772	.1038786	.1458049	.1963576	.2547647	.3196237	.3890287
17	.0231467	.0380893	.0593174	.0879150	.1246120	.1696326	.2226171	.2875985
18	.0109314	.0191537	.0316487	.0496056	.0741266	.1060774	.1459159	.1936321
19	.0048156	.0089932	.0157038	.0266942	.0413225	.0622503	.0899119	.1249563
20	.0019806	.0039455	.0073617	.0129483	.0215875	.0342775	.0520527	.0758750
21	.0007613	.0016186	.0032130	.0059942	.0105709	.0177090	.0283047	.0433863
22	.0002737	.0006214	.0013130	.0026000	.0048534	.0085652	.0144553	.0232587
23	.0000931	.0002234	.0005027	.0010571	.0020901	.0039633	.0069338	.0117366
24	.0000290	.0000753	.0001804	.0004031	.0008445	.0016686	.0031243	.0055669
25	.0000086	.0000238	.0000607	.0001442	.0003203	.0006693	.0013825	.0024880
26	.0000034	.0000070	.0000192	.0000484	.0001140	.0002521	.0005260	.0010403
27	.0000006	.0000020	.0000057	.0000153	.0000381	.0000892	.0001966	.0004099
28	.0000002	.0000005	.0000016	.0000045	.0000120	.0000297	.0000691	.0001518
29		.0000001	.0000004	.0000013	.0000035	.0000093	.0000228	.0000589
30			.0000001	.0000003	.0000010	.0000027	.0000071	.0000173
31				.0000001	.0000003	.0000007	.0000021	.0000053
32					.0000001	.0000002	.0000006	.0000015
33							.0000001	.0000004
34								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999946	.9999974	.9999987	.9999994	.9999997	.9999999	.9999999	1.0000000
4	.9999627	.9999809	.9999904	.9999952	.9999976	.9999989	.9999995	.9999997
5	.9998086	.9998970	.9999454	.9999715	.9999854	.9999926	.9999963	.9999982
6	.9992231	.9995611	.9997561	.9998666	.9999282	.9999620	.9999802	.9999899

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 61$$

p	.25	.26	.27	.28	.29	.30	.31	.32
7	.9974013	.9984593	.9991023	.9994858	.9997104	.9998397	.9999127	.9999533
8	.9926299	.9954179	.9972024	.9983222	.9990114	.9994277	.9996744	.9998180
9	.9810943	.9882047	.9924590	.9952676	.9970842	.9982358	.9989517	.9993882
10	.9608206	.9732801	.9821277	.9882723	.9924485	.9952278	.9970396	.9981972
11	.9242931	.9460124	.9622576	.9741863	.9826027	.9885241	.9925726	.9952828
12	.8670413	.9015936	.9281840	.9486206	.9639574	.9752040	.9832670	.9889241
13	.7894361	.8365661	.8756732	.9072919	.9322254	.9514179	.9658494	.9764560
14	.6909270	.7504405	.8024681	.8467110	.8833725	.9129944	.9363527	.9543407
15	.5783452	.6467085	.7096364	.7659384	.8149587	.8565352	.8909167	.9186589
16	.4607597	.5325099	.6020535	.6675145	.7274020	.7807187	.8269552	.8660456
17	.3480737	.4171359	.4876545	.5574711	.6245846	.6873019	.7443382	.7948630
18	.2486443	.3090409	.3756523	.4441911	.5134191	.5813248	.6460852	.7061936
19	.1676207	.2176897	.2743900	.3365052	.4024275	.4703012	.5381816	.6041927
20	.1065112	.1444144	.1896276	.2417290	.2998282	.3626166	.4284660	.4955612
21	.0637290	.0903491	.1237915	.1643284	.2118240	.2657006	.3249524	.3892077
22	.0358066	.0532618	.0762504	.1055613	.1416449	.1846075	.2341547	.2895748
23	.0190125	.0295697	.0442801	.0640088	.0895373	.1214181	.1599852	.2051830
24	.0094749	.0154547	.0242296	.0366003	.0534311	.0754979	.1034819	.1378423
25	.0044412	.0076024	.0124077	.0197366	.0300873	.0443377	.0632891	.0876668
26	.0019579	.0035192	.0060602	.0100261	.0159757	.0245733	.0365621	.0527211
27	.0008117	.0015328	.0027886	.0047973	.0079950	.0128448	.0199366	.0299550
28	.0003165	.0006240	.0011904	.0021614	.0037694	.0063292	.0102540	.0160608
29	.0001160	.0002421	.0004816	.0009167	.0016736	.0029303	.0049717	.0081235
30	.0000400	.0000877	.0001833	.0003658	.0006995	.0012846	.0022711	.0038731
31	.0000130	.0000299	.0000656	.0001373	.0002751	.0005287	.0009769	.0017396
32	.0000039	.0000096	.0000221	.0000485	.0001018	.0002047	.0003955	.0007356
33	.0000011	.0000029	.0000070	.0000161	.0000354	.0000745	.0001506	.0002926
34	.0000003	.0000008	.0000021	.0000050	.0000116	.0000255	.0000539	.0001094
35	.0000001	.0000002	.0000006	.0000015	.0000035	.0000082	.0000181	.0000385
36		.0000001	.0000002	.0000004	.0000010	.0000025	.0000057	.0000127
37				.0000001	.0000003	.0000007	.0000017	.0000039
38					.0000001	.0000002	.0000005	.0000011
39							.0000001	.0000003
40								.0000001

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999949	.9999975	.9999988	.9999994	.9999997	.9999999	.9999999	1.0000000
7	.9999754	.9999873	.9999935	.9999968	.9999984	.9999992	.9999996	.9999998
8	.9999000	.9999460	.9999714	.9999851	.9999924	.9999962	.9999981	.9999991
9	.9996493	.9998026	.9998908	.9999407	.9999684	.9999835	.9999915	.9999957
10	.9989222	.9993674	.9996354	.9997938	.9998855	.9999376	.9999666	.9999825
11	.9970599	.9982016	.9989204	.9993639	.9996323	.9997914	.9998839	.9999366
12	.9928072	.9954171	.9971351	.9982429	.9989428	.9993760	.9996387	.9997949
13	.9840795	.9894404	.9931298	.9956156	.9972556	.9983151	.9989856	.9994012
14	.9678760	.9778353	.9850008	.9900452	.9935206	.9958643	.9974117	.9984118
15	.9405154	.9573379	.9699932	.9793023	.9859999	.9907143	.9939615	.9961504
16	.8982888	.9242522	.9446729	.9603679	.9721602	.9808241	.9870506	.9914266
17	.8384942	.8752503	.9054740	.9297474	.9487920	.9633965	.9743457	.9823726
18	.7605354	.8084295	.8496046	.8841544	.9124633	.9351222	.9528452	.9663950
19	.6666745	.7242848	.7760659	.8214640	.8603088	.8927614	.9192434	.9403574
20	.5620488	.6261031	.6864498	.7416575	.7909873	.8340028	.8706237	.9010727
21	.4530315	.5200549	.5851148	.6473861	.7054909	.7533749	.8053457	.8460740
22	.3497675	.4133141	.4785831	.5438559	.6074575	.6670769	.7238630	.7744884
23	.2565758	.3133365	.3742863	.4379727	.5027754	.5770287	.6291438	.6877180
24	.1787440	.2260043	.2790588	.3369800	.3985268	.4922202	.5264582	.5896297
25	.1180482	.1547712	.1978713	.2470350	.3015866	.3605108	.4225101	.4960921
26	.0738031	.1004614	.1331710	.1721550	.2173256	.2602506	.3241513	.3839350
27	.0436290	.0617229	.0849330	.1138351	.1488056	.1899553	.2370796	.2896361
28	.0243637	.0358538	.0512626	.0713101	.0966402	.1277493	.1649164	.2081432
29	.0128414	.0196715	.0292473	.0422641	.0594384	.0814532	.1088927	.1421729
30	.0063835	.0101854	.0157578	.0236721	.0345761	.0491644	.0681338	.0921263
31	.0029907	.0049729	.0080100	.0125169	.0190009	.0280551	.0403375	.0565377
32	.0013196	.0022076	.0038301	.0062421	.0098536	.0151172	.0225662	.0328119
33	.0005480	.0009907	.0017321	.0029331	.0048172	.0076831	.0119143	.0179833
34	.0002140	.0004036	.0007356	.0012974	.0022176	.0036790	.0059295	.0092958
35	.0000785	.0001545	.0002937	.0005397	.0009606	.0016579	.0027785	.0045263
36	.0000270	.0000556	.0001101	.0002109	.0003910	.0007024	.0012243	.0020733
37	.0000087	.0000187	.0000387	.0000774	.0001491	.0002794	.0005067	.0008923
38	.0000026	.0000059	.0000128	.0000266	.0000535	.0001042	.0001967	.0003603
39	.0000007	.0000018	.0000039	.0000086	.0000179	.0000364	.0000715	.0001363
40	.0000002	.0000005	.0000011	.0000026	.0000056	.0000119	.0000243	.0000482
41		.0000001	.0000003	.0000007	.0000016	.0000036	.0000077	.0000159
43			.0000001	.0000002	.0000004	.0000010	.0000023	.0000049
43					.0000001	.0000003	.0000006	.0000014
44						.0000001	.0000002	.0000004
45								.0000001

p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999979	.9999990	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
10	.9999910	.9999955	.9999977	.9999989	.9999995	.9999998	.9999999	1.0000000
11	.9999661	.9999822	.9999908	.9999954	.9999977	.9999989	.9999995	.9999998

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 61$$

c	.41	.42	.43	.44	.45	.46	.47	.48
12	.9998858	.9999377	.9999667	.9999825	.9999910	.9999955	.9999978	.9999989
13	.9996534	.9998034	.9998907	.9999405	.9999683	.9999834	.9999915	.9999958
14	.9990447	.9994369	.9996747	.9998160	.9998980	.9999447	.9999707	.9999848
15	.9975945	.9985269	.9991151	.9994805	.9997011	.9998316	.9999072	.9999499
16	.9944367	.9964602	.9977957	.9986547	.9991960	.9995296	.9997307	.9998492
17	.9881277	.9921636	.9949320	.9967893	.9980081	.9987902	.9992809	.9995818
18	.9765226	.9839240	.9892133	.9929096	.9954753	.9971228	.9982249	.9989386
19	.9568091	.9693390	.9786678	.9854579	.9902847	.9936507	.9959360	.9974546
20	.9258057	.9454364	.9606635	.9722075	.9807616	.9869569	.9913421	.9943752
21	.8805617	.9090881	.9321409	.9503443	.9643908	.9749826	.9827071	.9884061
22	.8191774	.8576990	.8901314	.9168059	.9382399	.9550676	.9679754	.9776485
23	.7416195	.7900395	.8325107	.8688938	.8993378	.9242228	.9440937	.9595938
24	.6502303	.7069612	.7588037	.8050606	.8453669	.8796692	.9081831	.9313342
25	.5496763	.6117078	.6707648	.7256491	.7754800	.8195760	.8577613	.8900318
26	.4462591	.5096223	.5724701	.6333049	.6907870	.7438160	.7915851	.8336063
27	.3467581	.4072661	.4697979	.5328425	.5948751	.6544570	.7103296	.7614886
28	.2571146	.3111845	.3693940	.4305197	.4931504	.5557821	.6169227	.6751934
29	.1814762	.2266990	.2774199	.3328954	.3920862	.4537136	.5163404	.5784678
30	.1216639	.1570814	.1984650	.2456106	.2979919	.3547737	.4148418	.4768671
31	.0773285	.1033078	.1349332	.1724576	.2158733	.2648728	.3188331	.3768294
32	.0465191	.0643682	.0870050	.1149803	.1486854	.1882905	.2336933	.2844869
33	.0264473	.0379330	.0531085	.0726421	.0971492	.1271310	.1629109	.2045751
34	.0141098	.0211106	.0306369	.0434085	.0600942	.0813473	.1077499	.1397516
35	.0071751	.0110786	.0166763	.0244927	.0351267	.0492287	.0674659	.0904740
36	.0034146	.0054744	.0085518	.0130274	.0193679	.0281223	.0399077	.0553840
37	.0015273	.0025436	.0041253	.0065213	.0100560	.0151370	.0228577	.0319907
38	.0006411	.0011095	.0018690	.0030673	.0049081	.0076630	.0116822	.0174003
39	.0002522	.0004537	.0007940	.0013533	.0022479	.0036419	.0057590	.0088941
40	.0000928	.0001736	.0003158	.0005591	.0009644	.0016219	.0026613	.0042635
41	.0000319	.0000620	.0001173	.0002158	.0003867	.0006754	.0011504	.0019126
42	.0000102	.0000207	.0000406	.0000777	.0001447	.0002625	.0004642	.0008011
43	.0000030	.0000064	.0000131	.0000260	.0000504	.0000949	.0001744	.0003125
44	.0000008	.0000018	.0000039	.0000081	.0000163	.0000319	.0000609	.0001133
45	.0000002	.0000005	.0000011	.0000023	.0000049	.0000099	.0000197	.0000380
46	.0000001	.0000001	.0000003	.0000006	.0000013	.0000028	.0000059	.0000118
47			.0000001	.0000002	.0000003	.0000008	.0000016	.0000034
48					.0000001	.0000002	.0000004	.0000009
49							.0000001	.0000002

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	.9999999	1.0000000
12	.9999995	.9999998
13	.9999979	.9999990
14	.9999923	.9999962
15	.9999736	.9999864
16	.9999174	.9999558
17	.9997622	.9998679
18	.9993675	.9996350
19	.9984405	.9990659
20	.9964250	.9977780
21	.9923582	.9950733
22	.9847297	.9897926
23	.9714036	.9801915
24	.9496932	.9639113
25	.9166666	.9381343
26	.8697040	.8999843
27	.8072286	.8471613
28	.7294185	.7786870
29	.6386397	.6955396
30	.5393907	.6009237
31	.4376767	.5000000
32	.3399515	.3990763
33	.2519270	.3044604
34	.1776056	.2213130
35	.1188000	.1528387
36	.0752147	.1000157
37	.0449708	.0618657
38	.0253371	.0360887
39	.0134232	.0198085
40	.0066726	.0102074
41	.0031054	.0049267
42	.0013499	.0022220
43	.0005467	.0009341
44	.0002058	.0003650
45	.0000717	.0001321
46	.0000231	.0000442
47	.0000068	.0000136
48	.0000019	.0000038
49	.0000005	.0000010
50	.0000001	.0000002

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 62$$

p	.01	.02	.03	.04	.05	.06	.07	.08
1	.46[illegible]310	.7142300	.8486970	.9204177	.9584220	.9784262	.9888441	.9943135
2	.1270470	.3286414	.5585696	.7140301	.8227464	.8930490	.9370102	.9636558
3	.0244107	.1075742	.2848927	.4535695	.6049515	.7268359	.8179231	.8823464
4	.0035178	.0337092	.1156081	.2358196	.3756936	.5146409	.6386523	.7409386
5	.0004010	.0080560	.0381829	.1020307	.1977171	.3148772	.4396231	.5595677
6	.0000381	.0015065	.0106773	.0373564	.0890578	.1669611	.2658471	.3766197
7	.0000030	.0002403	.0025370	.0117561	.0347281	.0772673	.1415079	.2254868
8	.0000002	.0000331	.0005229	.0032227	.0118524	.0314662	.0667652	.1203842
9		.0000040	.0000947	.0007982	.0035751	.0113673	.0280465	.0575020
10		.0000004	.0000156	.0001671	.0009612	.0036699	.0105606	.0247096
11			.0000062	.0000322	.0002320	.0010658	.0035850	.0095966
12			.0000005	.0000056	.0000506	.0002801	.0011030	.0033841
13				.0000009	.0000100	.0000669	.0003090	.0010882
14				.0000001	.0000018	.0000146	.0000792	.0003203
15					.0000003	.0000029	.0000186	.0000866
16						.0000005	.0000040	.0000216
17						.0000001	.0000008	.0000050
18							.0000001	.0000011
19								.0000002

p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9971267	.9985444	.9992719	.9996307	.9998221	.9999131	.9999579	.9999798
2	.9794066	.9885171	.9936927	.9968836	.9984739	.9992363	.9996976	.9997413
3	.9359000	.9545356	.9726608	.9834772	.9906633	.9945826	.9970202	.9983555
4	.8504347	.8799213	.9206720	.9492243	.9683130	.9805079	.9882761	.9930764
5	.7669257	.7553016	.8258946	.8795242	.9187367	.9464721	.9655159	.9782447
6	.6803588	.6667492	.7690116	.8329713	.8839766	.8821999	.9189244	.9454736
7	.5919411	.5777709	.6904635	.7718365	.8328021	.8408158	.8808153	.8861735
8	.5061935	.4977088	.6127681	.7057082	.7853538	.7905433	.8358116	.8458116
9	.4264150	.4233007	.5386603	.6445579	.7416207?	.7484772	.7967575	.8074804
10	.3549778	.3571610	.4702540	.5880431	.6921717	.7069697	.7551020	.7722448
11	.2915961	.2942775	.4074374	.5366664	.6460210	.6648784	.7126124	.7357212
12	.2365742	.2387019	.3503917	.4902856	.6040403	.6259223	.6720864	.6982709
13	.1893148	.1907609	.2991070	.4487257	.5661760	.5899178	.6331910	.6632759
14	.1491365	.1498113	.2533663	.4118069	.5322557	.5565174	.5962886	.6303711
15	.1150173	.1149611	.2129971	.3792130	.5019439	.5255002	.5616777	.5992679
16	.0860835	.0856432	.1777720	.3505890	.4749003	.4967472	.5285537	.5697431
17	.0622231	.0618805	.1474819	.3255771	.4507964	.4702704	.4973010	.5415273
18	.0433567	.0430240	.1217446	.3038466	.4293819	.4461254	.4678234	.5147241
19	.0290013	.0287060	.1001236	.2850705	.4103281	.4240502	.4401804	.4893659
20	.0186033	.0184014	.0820961	.2689224	.3933711	.4038998	.4142046	.4653714
21	.0115001	.0113803	.0672015	.2551060	.3782207	.3854631	.3898723	.4426865
22		.0067803	.0549355	.2433303	.3646555	.3685187	.3670550	.4211465
23		.0038803	.0447001	.2333333	.3524014	.3529052	.3456164	.4006471
24			.0361001	.2248001	.3412003	.3384013	.3254046	.3811142
25			.0288001	.2175001	.3308001	.3249003	.3063012	.3625040
26						.3123001	.2882001	.3447003
27						.3006001	.2710001	.3277011
28							.2547001	.3116002
29								.2963001

p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999904	.9999955	.9999979	.9999990	.9999996	.9999998	.9999999	1.0000000
2	.9998683	.9999338	.9999671	.9999838	.9999921	.9999962	.9999982	.9999992
3	.9991058	.9995207	.9997466	.9998679	.9999321	.9999655	.9999827	.9999915
4	.9959820	.9977070	.9987124	.9992883	.9996136	.9997903	.9998903	.9999429
5	.9865449	.9918347	.9951343	.9971511	.9903602	.9990717	.9994870	.9997167
6	.9641233	.9788819	.9853982	.9909531	.9944982	.9967141	.9980710	.9989880
7	.9204056	.9456999	.9637021	.9762329	.9847454	.9903968	.9940674	.9964018
8	.8490091	.8996408	.9229806	.9467924	.9640053	.9761425	.9841983	.9901211
9	.7483472	.8083017	.8573325	.8961916	.9361022	.9485019	.9648476	.9764853
10	.6246719	.6984569	.7819270	.8309905	.8856491	.9017854	.9296393	.9506489
11	.4903546	.5788317	.6900477	.7197215	.7804791	.8310006	.8730746	.9074071
12	.3609327	.4414304	.5226619	.6008672	.6734530	.7385076	.7954467	.8288547
13	.2471510	.3184426	.3956592	.4745845	.5525407	.6268075	.6952032	.7562185
14	.1579003	.2153445	.2850984	.3531588	.4289205	.5055607	.5803829	.6509925
15	.0940738	.1358376	.1970372	.2469114	.3139067	.3858843	.4603435	.5346900
16	.0521816	.0799719	.1164332	.1619134	.2160723	.2778614	.3456046	.4171632
17	.0269769	.0439551	.0677840	.0994930	.1356778	.1853617	.2449386	.3081417
18	.0130000	.0225621	.0369057	.0572675	.0811284	.1200557	.1635578	.2149840
19	.0058552	.0108221	.0187981	.0308765	.0482113	.0718912	.1027928	.1414385
20	.0024626	.0048541	.0089619	.0155975	.0257319	.0404256	.0607603	.0876545
21	.0009616	.0020375	.0040012	.0073851	.0128844	.0213541	.0337667	.0511380
22	.0003586	.0008009	.0017740	.0032788	.0060341	.0105995	.0178407	.0280749
23	.0001330	.0002950	.0006567	.0013657	.0026704	.0049357	.0086638	.0145019
24	.0000397	.0001019	.0002417	.0005339	.0011061	.0021409	.0040005	.0070476
25	.0000121	.0000330	.0000835	.0001960	.0004304	.0008891	.0017369	.0032224
26	.0000034	.0000101	.0000271	.0000676	.0001574	.0003439	.0007092	.0013863
27	.0000009	.0000029	.0000083	.0000219	.0000541	.0001251	.0002724	.0005512
28	.0000002	.0000008	.0000024	.0000067	.0000175	.0000420	.0000984	.0002137
29		.0000002	.0000006	.0000019	.0000053	.0000133	.0000334	.0000766
30			.0000002	.0000005	.0000015	.0000042	.0000107	.0000258
31				.0000001	.0000004	.0000012	.0000032	.0000082
32					.0000001	.0000003	.0000009	.0000024
33						.0000001	.0000002	.0000007
34							.0000001	.0000002

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999958	.9999980	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000
4	.9999707	.9999852	.9999926	.9999964	.9999982	.9999992	.9999996	.9999998
5	.9998473	.9999188	.9999576	.9999782	.9999889	.9999945	.9999973	.9999987

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 62

r	.25	.26	.27	.28	.29	.30	.31	.32
6	.9993695	.9996484	.9998072	.9998960	.9999448	.9999712	.9999852	.9999925
7	.9978567	.9986458	.9992788	.9995924	.9997736	.9998764	.9999336	.9999650
8	.9931287	.9962087	.9977153	.9986480	.9992141	.9995513	.9997483	.9998613
9	.9845788	.9900801	.9937397	.9961220	.9976431	.9985934	.9991757	.9995257
10	.9660891	.9771605	.9849172	.9908310	.9937929	.9961302	.9976324	.9985783
11	.9334250	.9531020	.9676225	.9780072	.9854580	.9905352	.9939574	.9968154
12	.8813542	.9131425	.9373839	.9557622	.9693645	.9792000	.9861523	.9909589
13	.8090374	.8534732	.8898511	.9188640	.9414276	.9585538	.9712491	.9804458
14	.7155543	.7728391	.8222335	.8636743	.8975398	.9245214	.9454967	.9614176
15	.6064906	.6736809	.7347010	.7885550	.8347987	.8734730	.9050019	.9300770
16	.4901561	.5621949	.6311009	.6950732	.7527935	.8034636	.8467832	.8828819
17	.3762452	.4471308	.5185422	.5882832	.6544016	.7153269	.7699494	.8176414
18	.2735020	.3377376	.4058929	.4759095	.5456571	.6131179	.6765436	.7345671
19	.1870827	.2416490	.3017308	.3666572	.4346150	.5036083	.5716313	.6368327
20	.1217906	.1634660	.2125134	.2682663	.3295820	.3949220	.4624777	.5303233
21	.0744246	.1044061	.1415673	.1860006	.2373452	.2947754	.3570416	.4225608
22	.0438472	.0629045	.0890865	.1220161	.1619968	.2089354	.2623019	.3211373
23	.0243310	.0357207	.0529181	.0756435	.1046414	.1403749	.1829778	.2321884
24	.0118593	.0191246	.0296438	.0442804	.0638990	.0892739	.1209979	.1593913
25	.0056996	.0096440	.0156580	.0244607	.0368570	.0536858	.0757482	.1037230
26	.0025707	.0045808	.0077956	.0127450	.0200661	.0305026	.0448472	.0639037
27	.0010983	.0020472	.0036573	.0062613	.0103004	.0163634	.0250905	.0363374
28	.0004403	.0008633	.0016165	.0029994	.0049948	.0082839	.0132556	.0205057
29	.0001661	.0003424	.0006730	.0012652	.0023014	.0039556	.0066092	.0106634
30	.0000590	.0001279	.0002638	.0005201	.0009820	.0017807	.0031083	.0052332
31	.0000197	.0000449	.0000974	.0002013	.0003982	.0007555	.0013781	.0024223
32	.0000062	.0000149	.0000330	.0000734	.0001520	.0003019	.0005757	.0010569
33	.0000018	.0000046	.0000111	.0000252	.0000546	.0001136	.0002265	.0004344
34	.0000005	.0000014	.0000034	.0000081	.0000185	.0000402	.0000839	.0001681
35	.0000001	.0000004	.0000010	.0000025	.0000059	.0000134	.0000293	.0000612
36		.0000001	.0000003	.0000007	.0000018	.0000042	.0000096	.0000209
37			.0000001	.0000002	.0000005	.0000012	.0000029	.0000067
38					.0000001	.0000003	.0000008	.0000020
39						.0000001	.0000002	.0000006
40							.0000001	.0000002

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999963	.9999982	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000
7	.9999818	.9999907	.9999954	.9999977	.9999989	.9999995	.9999998	.9999999
8	.9999249	.9999600	.9999791	.9999893	.9999946	.9999973	.9999987	.9999994
9	.9997320	.9998513	.9999190	.9999567	.9999773	.9999885	.9999941	.9999971
10	.9991621	.9995153	.9997248	.9998467	.9999162	.9999550	.9999763	.9999878
11	.9976744	.9985979	.9991706	.9995187	.9997260	.9998469	.9999162	.9999550
12	.9942106	.9963638	.9977600	.9986465	.9991979	.9995330	.9997344	.9998516
13	.9869597	.9914785	.9945317	.9965615	.9978798	.9987183	.9992403	.9995587
14	.9733337	.9817810	.9878459	.9920506	.9949026	.9967956	.9980265	.9988075
15	.9498446	.9643070	.9752459	.9831698	.9887826	.9926713	.9953071	.9970550
16	.9122236	.9355013	.9535350	.9671043	.9772809	.9845824	.9897455	.9933161
17	.8582264	.8919109	.9191942	.9407708	.9574382	.9700190	.9793004	.9859942
18	.7862618	.8311485	.8691592	.9005679	.9259049	.9458664	.9612304	.9727860
19	.6976486	.7528940	.8018044	.8440326	.8796059	.9088585	.9323481	.9507725
20	.5965753	.6595377	.7178155	.7703879	.8166363	.8563311	.8895854	.9167366
21	.4895432	.5561385	.6205821	.6813238	.7371246	.7871135	.8308041	.8680734
22	.3841086	.4496060	.5158692	.5811268	.6437200	.7022661	.7556412	.8031226
23	.2873291	.3473289	.4107902	.4760906	.5415078	.6053510	.6660843	.7224962
24	.2044290	.2556973	.3123804	.3733379	.4370988	.5020474	.5665056	.6288650
25	.1380781	.1789904	.2262867	.2794155	.3374545	.3951604	.4630498	.5275072
26	.0884040	.1189267	.1558161	.1991118	.2485022	.3033094	.3685112	.4247978
27	.0535865	.0748940	.1013163	.1348303	.1741580	.2179075	.2710376	.3273556
28	.0307212	.0446493	.0630472	.0866191	.1159414	.1513876	.1930600	.2407404
29	.0166438	.0251735	.0369527	.0527206	.0732031	.0930457	.1307419	.1685610
30	.0065146	.0134107	.0204791	.0303652	.0437751	.0614341	.0840297	.1121449
31	.0041103	.0067451	.0107318	.0165328	.0247637	.0360766	.0511781	.0707731
32	.0016771	.0032006	.0052993	.0085010	.0132381	.0200336	.0294970	.0423022
33	.0006026	.0014317	.0024692	.0041243	.0066807	.0105090	.0160685	.0235147
34	.0003248	.0006032	.0010844	.0018063	.0031796	.0052045	.0082636	.0127708
35	.0001232	.0002392	.0004484	.0008125	.0014257	.0024259	.0040074	.0064341
36	.0000440	.0000898	.0001744	.0003293	.0006017	.0010655	.0018304	.0030545
37	.0000148	.0000313	.0000637	.0001254	.0002388	.0004191	.0007866	.0013647
38	.0000047	.0000103	.0000219	.0000449	.0000860	.0001708	.0003176	.0005731
39	.0000014	.0000032	.0000070	.0000150	.0000311	.0000622	.0001303	.0002259
40	.0000004	.0000009	.0000021	.0000047	.0000103	.0000212	.0000427	.0000834
41	.0000001	.0000002	.0000006	.0000014	.0000031	.0000068	.0000142	.0000288
42		.0000001	.0000002	.0000004	.0000009	.0000020	.0000044	.0000093
43				.0000001	.0000002	.0000006	.0000013	.0000028
44					.0000001	.0000001	.0000003	.0000008
45							.0000001	.0000002

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999986	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999938	.9999969	.9999985	.9999993	.9999997	.9999998	.9999999	1.0000000

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 62$$

x	.41	.42	.43	.44	.45	.46	.47	.48
11	.9939763	.9990878	.9999938	.9999969	.9999985	.9999993	.9999997	.9999999
12	.9989187	.9999564	.9999771	.9999902	.9999940	.9999971	.9999986	.9999993
13	.9997487	.9998598	.9999234	.9999590	.9999785	.9999890	.9999945	.9999973
14	.9999243	.9999508	.9999676	.9999798	.9999896	.9999935	.9999965	.9999981
15	.9981691	.9988091	.9993563	.9996281	.9997897	.9998836	.9999370	.9999667
16	.9957314	.9973294	.9983635	.9990101	.9994233	.9996685	.9998136	.9999076
17	.9907144	.9939690	.9961634	.9976101	.9985427	.9991303	.9994923	.9997108
18	.9818807	.9873847	.9916723	.9946167	.9965930	.9979898	.9987812	.9992421
19	.9640916	.9754647	.9832024	.9887367	.9926052	.9952478	.9970118	.9981621
20	.9385171	.9554755	.9684053	.9780377	.9850493	.9900361	.9935012	.9958533
21	.8991117	.9243544	.9444056	.9594641	.9717577	.9804908	.9868080	.9918713
22	.8443450	.8792824	.9081955	.9315628	.9500078	.9642285	.9749369	.9829131
23	.7734182	.8184565	.8572876	.8899751	.9168437	.9384114	.9553181	.9602600
24	.6876999	.7418541	.7904977	.8331472	.8696538	.9001638	.9250611	.9448908
25	.5969034	.6517142	.7086215	.7605902	.8069126	.8472193	.8814595	.9098570
26	.4886602	.5524982	.6147368	.6739364	.7288854	.7706660	.8226879	.8606905
27	.3875500	.4502557	.5139469	.5770460	.6380355	.6955681	.7485197	.7961051
28	.2938660	.3515308	.4125677	.4758417	.5389865	.6011725	.6608240	.7166153
29	.2134879	.2621829	.3169688	.3758501	.4375651	.5006651	.5636141	.6248963
30	.1461869	.1863208	.2324161	.2840159	.3403344	.4002861	.4685461	.5256354
31	.0955060	.1258927	.1622528	.2046449	.2528267	.3062272	.3639578	.4288475
32	.0591509	.0807328	.1076141	.1402703	.1709200	.2235183	.2737090	.3288113
33	.0346760	.0490358	.0676840	.0910709	.1203404	.1552643	.1961786	.2429328
34	.0192154	.0281760	.0402997	.0560713	.0767689	.1024077	.1336756	.1700669
35	.0100511	.0152920	.0226794	.0328157	.0463620	.0646010	.0863994	.1141273
36	.0049564	.0078282	.0120453	.0180728	.0264594	.0370312	.0508600	.0722272
37	.0023011	.0037745	.0060287	.0093840	.0142464	.0211108	.0305538	.0432195
38	.0010045	.0017118	.0028392	.0045871	.0072246	.0111011	.0166527	.0244037
39	.0004117	.0007291	.0012563	.0021075	.0034450	.0054916	.0085429	.0129771
40	.0001582	.0002912	.0005214	.0009085	.0015420	.0025511	.0041178	.0064068
41	.0000569	.0001089	.0002026	.0003669	.0006467	.0011108	.0018606	.0030411
42	.0000191	.0000381	.0000736	.0001305	.0002536	.0004524	.0007867	.0013346
43	.0000060	.0000124	.0000249	.0000430	.0000920	.0001720	.0003106	.0005471
44	.0000017	.0000038	.0000079	.0000160	.0000316	.0000609	.0001142	.0002009
45	.0000005	.0000011	.0000023	.0000049	.0000100	.0000200	.0000390	.0000741
46	.0000001	.0000003	.0000006	.0000014	.0000029	.0000061	.0000124	.0000244
47		.0000001	.0000002	.0000004	.0000008	.0000017	.0000036	.0000074
48				.0000001	.0000002	.0000004	.0000010	.0000021
49						.0000001	.0000002	.0000005
50							.0000001	.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	.9999999	1.0000000
12	.9999997	.9999999
13	.9999987	.9999994
14	.9999950	.9999976
15	.9999828	.9999913
16	.9999450	.9999711
17	.9998383	.9999118
18	.9995609	.9997515
19	.9988948	.9993505
20	.9974126	.9984220
21	.9943509	.9964256
22	.9884677	.9924330
23	.9779334	.9849921
24	.9603313	.9720514
25	.9328496	.9510228
26	.8927157	.9190593
27	.8378417	.8735728
28	.7675455	.8129261
29	.6831213	.7371133
30	.5880287	.6482317
31	.4875166	.5504618
32	.3878369	.4495382
33	.2950590	.3517683
34	.2140231	.2628867
35	.1476147	.1870759
36	.0965715	.1264272
37	.0597903	.0809407
38	.0349576	.0489772
39	.0192610	.0279436
40	.0099804	.0150079
41	.0048533	.0075670
42	.0022101	.0035744
43	.0009403	.0015780
44	.0003728	.0006485
45	.0001374	.0002485
46	.0000469	.0000882
47	.0000148	.0000289
48	.0000043	.0000087
49	.0000011	.0000034
50	.0000003	.0000006
51	.0000001	.0000001

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^{r} (1-p)^{n-r} \qquad n = 63$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.46900945	.71994544	.85323610	.93360100	.96050090	.97272060	.98066230	.99476840
2	.13128455	.35987510	.56727340	.73305360	.83253020	.90017160	.94064130	.96610040
3	.02545440	.13207560	.29310300	.46401330	.61584120	.73600070	.82625920	.90480510
4	.00372620	.03754650	.12068660	.26445850	.38715650	.52730010	.65120130	.75338510
5	.00043410	.00860900	.04069960	.10738300	.20661590	.35060350	.45355580	.57407740
6	.00004170	.00164040	.01150350	.03994330	.09446070	.17503610	.27001140	.39125560
7	.00000340	.00026570	.00278100	.01279010	.03744460	.08364890	.15028610	.23757930
8	.00000020	.00003720	.00058340	.00356400	.01299620	.03421430	.07200280	.12876500
9		.00000460	.00010750	.00087600	.00398890	.01257320	.03075600	.06255080
10		.00000050	.00001760	.00019160	.00109190	.00413170	.01178460	.02733300
11			.00000260	.00003760	.00008650	.00132210	.00407330	.01080560
12			.00000030	.00000670	.00002580	.00032720	.00127670	.00388110
13				.00000110	.00000720	.00007970	.00036460	.00127100
14				.00000020	.00000180	.00001780	.00009530	.00036170
15					.00000040	.00000360	.00002890	.00010530
16					.00000010	.00000070	.00000510	.00002600
17						.00000010	.00000100	.00000630
18							.00000020	.00000140
19								.00000030
20								.00000010

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.99737210	.99869000	.99935200	.99968820	.99984520	.99992530	.99996480	.99998300
2	.98099830	.98951000	.99430640	.99695020	.99830020	.99915900	.99959670	.99979790
3	.93079730	.95793380	.97497430	.98540200	.99163080	.99539210	.99739180	.99857790
4	.83904370	.88657270	.92639080	.95333270	.97113210	.98324920	.98950770	.99392110
5	.68007740	.76763760	.84632020	.90708820	.92516880	.95123710	.96889990	.98061780
6	.50529050	.61170040	.70495070	.78025010	.84412540	.89119000	.92589130	.95071700
7	.33819550	.44421230	.54801380	.64358290	.73870680	.81676170	.86253150	.89566160
8	.20362400	.29867550	.39000610	.48091290	.58466260	.67147660	.74700400	.81026950
9	.11045910	.17481360	.25340550	.34200860	.44356400	.53875900	.61682540	.69641340
10	.05415060	.09478380	.15010870	.21930490	.29959630	.38678080	.47635030	.56308950
11	.02407820	.04676600	.08130020	.12903160	.18982130	.26197180	.34248390	.42756500
12	.00974800	.02105950	.04027670	.06966730	.11078790	.16437610	.22066530	.30845970
13	.00360650	.00868220	.01830530	.03450040	.05961300	.09501840	.14168600	.19519830
14	.00128360	.00328700	.00765200	.01588840	.02961390	.05091530	.08136810	.11880350
15	.00038190	.00114610	.00294940	.00668310	.01360450	.02683740	.04339040	.06954440
16	.00011000	.00036900	.00105080	.00261200	.00579000	.01163840	.02149710	.03694830
17	.00002930	.00011000	.00034680	.00094650	.00238690	.00497920	.00960690	.01821950
18	.00000730	.00003040	.00010630	.00031860	.00089380	.00193820	.00402520	.00763910
19	.00000170	.00000780	.00002930	.00009980	.00030710	.00069530	.00157010	.00300680
20	.00000040	.00000190	.00000800	.00002910	.00009160	.00022440	.00058590	.00144950
21	.00000010	.00000040	.00000220	.00000790	.00002730	.00006830	.00020990	.00054400
22		.00000010	.00000050	.00000200	.00000760	.00001990	.00007260	.00019130
23			.00000010	.00000050	.00000200	.00000540	.00002320	.00006300
24				.00000010	.00000050	.00000140	.00000690	.00001950
25					.00000010	.00000030	.00000170	.00000560
26						.00000010	.00000040	.00000150
27							.00000010	.00000040
28								.00000010

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.99999200	.99999630	.99999830	.99999920	.99999960	.99999980	.99999990	1.00000000
2	.99988890	.99994490	.99997290	.99998690	.99999370	.99999700	.99999860	.99999940
3	.99923540	.99959500	.99978850	.99989110	.99994470	.99997230	.99998630	.99999330
4	.99651300	.99803340	.99899090	.99949420	.99976970	.99990300	.99995160	.99997540
5	.98814920	.99288170	.99581410	.99757850	.99868330	.99923020	.99957670	.99977100
6	.96793490	.97957340	.98724800	.99219270	.99530920	.99723280	.99839640	.99908690
7	.92791230	.95131350	.96784340	.97917690	.98679350	.99170660	.99498840	.99699850
8	.86116200	.90079740	.93072450	.95268050	.96836070	.97927040	.98666920	.99164850
9	.76545980	.82317670	.86980720	.90631180	.93406190	.95455820	.96936720	.97975790
10	.64567180	.71905140	.78248410	.83547070	.87834420	.91201620	.93778950	.95684960
11	.51318340	.59562480	.67187480	.73983530	.79883640	.84716410	.88066980	.91778510
12	.38843640	.46500260	.54668520	.63463800	.69859280	.75907090	.81335410	.85833473
13	.26639190	.34090840	.41979780	.49984100	.57793330	.65139470	.71881900	.77701120
14	.17311470	.23397410	.30286600	.37744400	.45488070	.53224120	.60697150	.67624670
15	.10493960	.15014070	.20490800	.26861600	.33005960	.41281480	.48795260	.56260260
16	.05930330	.09002590	.12984800	.17891300	.23661750	.30162640	.37199450	.44533690
17	.03126170	.05043820	.07702740	.11197710	.15572060	.20805160	.26808410	.33430690
18	.01538270	.02641290	.04277260	.06571260	.09626770	.13500300	.18222720	.23034190
19	.00707120	.01293530	.02333860	.03615470	.05587990	.08248740	.11667860	.15908940
20	.00303930	.00592830	.01080300	.01866530	.03045850	.04735270	.07042780	.10006260
21	.00128350	.00254450	.00494360	.00902750	.01558240	.02555110	.03997520	.05990190
22	.00046060	.00102350	.00211620	.00411001	.00748850	.01296000	.02134970	.03361000
23	.00016270	.00038610	.00085000	.00174830	.00339310	.00618020	.01070850	.01771890
24	.00005390	.00013670	.00032050	.00070030	.00143460	.00277140	.00507300	.00883670
25	.00001680	.00004540	.00011350	.00026360	.00057230	.00117680	.00232570	.00414050
26	.00000490	.00001420	.00003780	.00009330	.00021470	.00046390	.00094560	.00182700
27	.00000130	.00000420	.00001180	.00003100	.00007580	.00017320	.00037290	.00075920
28	.00000030	.00000110	.00000350	.00000970	.00002520	.00006090	.00013840	.00029710
29	.00000010	.00000030	.00000100	.00000290	.00000790	.00002010	.00004840	.00011050
30		.00000010	.00000030	.00000080	.00000230	.00000630	.00001550	.00003800
31			.00000010	.00000020	.00000060	.00000180	.00000490	.00001240
32				.00000010	.00000020	.00000050	.00000140	.00000380
33						.00000010	.00000040	.00000110
34							.00000010	.00000030
35								.00000010

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999970	.99999990	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999680	.99999850	.99999930	.99999970	.99999980	.99999990	1.00000000	1.00000000

$$B(n,p) = \sum_{k=p}^{n} \binom{n}{k} p^k (1-p)^{n-k}$$

n = 61

k	.35	.36	.37	.38	.39	.30	.31	.38
4	.9999770	.9999885	.9999944	.9999973	.9999987	.9999994	.9999997	.9999999
5	.9998781	.9999361	.9999670	.9999833	.9999916	.9999959	.9999980	.9999991
6	.9994083	.9997187	.9998478	.9999190	.9999576	.9999782	.9999890	.9999945
7	.9988344	.9994805	.9997215	.9998638	.9999233	.9999548	.9999496	.9999738
8	.9980312	.9990883	.9994375	.9996184	.9997764	.9998680	.9999057	.9999545
9	.9968893	.9983735	.9988131	.9990299	.9995007	.9997209	.9998538	.9999311
10	.9953113	.9972196	.9979993	.9984807	.9989094	.9992691	.9995100	.9997015
11	.9931910	.9956378	.9968921	.9978675	.9984751	.9989137	.9992906	.9995716
12	.9904819	.9935320	.9955403	.9968132	.9976316	.9982606	.9988719	.9993410
13	.9870666	.9908872	.9936850	.9954955	.9965093	.9972476	.9982691	.9989100
14	.9829251	.9878040	.9914902	.9938673	.9949311	.9958799	.9973111	.9982066
15	.9779566	.9842630	.9888347	.9917864	.9928936	.9939975	.9960553	.9972060
16	.9720397	.9801813	.9857039	.9892401	.9903750	.9914664	.9944310	.9958843
17	.9651289	.9755475	.9819844	.9860331	.9873679	.9883679	.9922679	.9941184
18	.9571878	.9703661	.9776799	.9821708	.9837741	.9846006	.9895494	.9918100
19	.9481975	.9646381	.9727546	.9776546	.9795993	.9801311	.9862691	.9889100
20	.9381136	.9583936	.9672479	.9725150	.9750416	.9749879	.9824153	.9854063
21	.9269661	.9516616	.9612287	.9668350	.9700939	.9693194	.9779868	.9813448
22	.9147416	.9444429	.9547563	.9606479	.9647074	.9631479	.9730479	.9767529
23	.9014351	.9367951	.9478792	.9539278	.9589431	.9565745	.9675603	.9716521
24	.8870322	.9287419	.9406350	.9467143	.9528042	.9496042	.9615117	.9660664
25	.8715395	.9203089	.9330682	.9390102	.9463628	.9422993	.9548756	.9600368
26	.8550889	.9114185	.9252354	.9308369	.9396575	.9346575	.9477465	.9535459
27	.8376884	.9021075	.9171747	.9222760	.9326052	.9267052	.9401151	.9466707
28	.8193648	.8923675	.9088408	.9133394	.9252360	.9184077	.9319844	.9393598
29	.8002347	.8824778	.9002877	.9040283	.9175541	.9098541	.9234536	.9316129
30	.7803858	.8723036	.8915743	.8944330	.9095780	.9010338	.9145930	.9234709
31	.7598295	.8618665	.8827106	.8845675	.9013630	.8919645	.9054145	.9149218
32	.7386096	.8511927	.8737510	.8744234	.8929380	.8826845	.8959345	.9059938
33	.7168089	.8403073	.8647172	.8640899	.8843701	.8732348	.8862334	.8967336
34	.6944908	.8292322	.8556255	.8536387	.8756883	.8636483	.8763611	.8871693
35	.6717002	.8179916	.8464889	.8430290	.8669214	.8539574	.8663461	.8773214
36	.6484702	.8066027	.8373184	.8323214	.8580975	.8441944	.8562194	.8672109
37	.6248638	.7950942	.8281242	.8215124	.8492125	.8343928	.8459708	.8568587
38	.6009020	.7834870	.8189177	.8106479	.8403081	.8245881	.8356548	.8463850
39	.5766663	.7718031	.8097078	.7997300	.8314188	.8148108	.8253047	.8358047
40	.5521860	.7600520	.8004989	.7887809	.8225711	.8050920	.8149413	.8252011
41	.5274964	.7483484	.7912911	.7778211	.8137928	.7954573	.8046023	.8146058
42	.5026762	.7366551	.7820963	.7668716	.8051163	.7859320	.7943178	.8040616
43	.4777993	.7249963	.7729216	.7559516	.7965635	.7765357	.7841113	.7935384
44	.4529437	.7133869	.7637739	.7450803	.7881525	.7672835	.7740033	.7831443
45	.4281855	.7018439	.7546599	.7342756	.7798969	.7581875	.7640103	.7728555
46	.4035997	.6903827	.7455858	.7235544	.7718060	.7492566	.7541460	.7626900
47	.3792615	.6790203	.7365571	.7129324	.7638844	.7404972	.7444208	.7526636
48	.3552468	.6677732	.7275788	.7024244	.7561327	.7319128	.7348441	.7427894
49	.3316327	.6566585	.7186557	.6920440	.7485472	.7235040	.7254232	.7330781
50	.3084982	.6456940	.7097918	.6818040	.7411200	.7152685	.7161630	.7235381
51	.2859249	.6348990	.7009907	.6717161	.7338390	.7072008	.7070650	.7141752
52	.2639975	.6242944	.6922553	.6617911	.7266880	.6992918	.6981307	.7049929
53	.2428045	.6139035	.6835880	.6520390	.7196470	.6915297	.6893600	.6959923
54	.2224391	.6037520	.6749904	.6424690	.7126934	.6838999	.6807500	.6871722
55	.2030000	.5938688	.6664637	.6330898	.7058021	.6763855	.6722102	.6785287
56	.1845930	.5842864	.6580085	.6239096	.6989457	.6689674	.6637488	.6700557
57	.1673327	.5750414	.6496250	.6149360	.6920944	.6616245	.6553729	.6617446
58	.1513450	.5661756	.6413130	.6061760	.6852161	.6543335	.6470884	.6535850
59	.1367702	.5577364	.6330722	.5976361	.6782767	.6470693	.6389004	.6455662
60	.1237671	.5497784	.6249017	.5893224	.6712402	.6398000	.6308129	.6376766
61	.1125197	.5423660	.6168000	.5812403	.6640689	.6324469	.6228292	.6299035

k	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

k	.41	.42	.43	.44	.45	.46	.47	.48
4	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999973	.9999987	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000
7	.9999866	.9999933	.9999967	.9999984	.9999992	.9999996	.9999998	.9999999
8	.9999437	.9999705	.9999848	.9999923	.9999962	.9999981	.9999991	.9999996
9	.9997957	.9998882	.9999401	.9999684	.9999837	.9999917	.9999959	.9999980
10	.9993502	.9996296	.9997928	.9998863	.9999388	.9999677	.9999833	.9999915
11	.9981654	.9989098	.9993646	.9996360	.9997963	.9998880	.9999396	.9999681
12	.9959536	.9971234	.9982537	.9989605	.9993933	.9996528	.9998053	.9998929
13	.9923525	.9931355	.9956616	.9973121	.9983675	.9990382	.9994330	.9996758
14	.9867566	.9850761	.9901860	.9936745	.9960042	.9975362	.9984993	.9991080
15	.9787587	.9702481	.9796559	.9863669	.9910470	.9942386	.9963673	.9977560
16	.9683395	.9452952	.9611338	.9739391	.9815365	.9876562	.9919145	.9948116
17	.9554455	.9067316	.9312135	.9502796	.9647000	.9755531	.9833740	.9888230
18	.9400101	.8518077	.8866715	.9150409	.9375732	.9550444	.9668777	.9780693
19	.9220910	.7795005	.8253706	.8643853	.8967366	.9239215	.9436122	.9595779
20	.9019295	.6913748	.7473116	.7969000	.8399351	.8762915	.9063628	.9303809
21	.8798638	.5918942	.6546138	.7133869	.7665439	.8134162	.8537288	.8875587
22	.8561020	.4858270	.5535187	.6171977	.6782859	.7345081	.7849548	.8291030
23	.8309663	.3821031	.4475678	.5139036	.5793300	.6431788	.7010115	.7547047
24	.8047860	.2868520	.3468291	.4101289	.4757301	.5413028	.6053413	.6662895
25	.7779739	.2050708	.2564224	.3132276	.3743229	.4382574	.5033976	.5690503
26	.7509964	.1394484	.1804809	.2280211	.2814145	.3397328	.4017213	.4658816
27	.7242762	.0886651	.1207163	.1579716	.2016654	.2514762	.3067133	.3663325
28	.6982668	.0549325	.0766164	.1039751	.1374816	.1773491	.2234713	.2753865
29	.6733893	.0317953	.0460658	.0649241	.0890163	.1189356	.1550460	.1974327
30	.6500111	.0174101	.0262449	.0384138	.0546635	.0757865	.1022475	.1347113
31	.6284637	.0090114	.0141369	.0215124	.0317979	.0457125	.0639902	.0873218
32	.6089100	.0044057	.0071965	.0113924	.0175026	.0261299	.0378526	.0536906
33	.5914552	.0020331	.0034594	.0056999	.0091069	.0141277	.0213056	.0312497
34	.5761021	.0008849	.0015691	.0026920	.0044750	.0072174	.0113075	.0172284
35	.5628896	.0003630	.0006710	.0011991	.0020747	.0034803	.0056673	.0089688
36	.5517702	.0001402	.0002703	.0005033	.0009068	.0015824	.0026794	.0044063
37	.5427244	.0000510	.0001028	.0001968	.0003731	.0006777	.0011937	.0020406
38	.5357080	.0000174	.0000365	.0000739	.0001444	.0002731	.0005005	.0008897
39	.5306925	.0000056	.0000122	.0000258	.0000525	.0001034	.0001873	.0003448
40	.5275907	.0000017	.0000038	.0000084	.0000179	.0000386	.0000730	.0001404
41	.5263002	.0000005	.0000011	.0000026	.0000057	.0000132	.0000253	.0000507
42		.0000001	.0000003	.0000007	.0000017	.0000038	.0000082	.0000171
43			.0000001	.0000002	.0000005	.0000011	.0000025	.0000054
44					.0000001	.0000003	.0000007	.0000016
45						.0000001	.0000002	.0000004
46								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 63$$

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999990	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999958	.9999979	.9999990	.9999995	.9999998	.9999999	1.0000000	1.0000000
11	.9999835	.9999916	.9999958	.9999980	.9999990	.9999995	.9999998	.9999999
12	.9999431	.9999696	.9999843	.9999920	.9999961	.9999981	.9999991	.9999996
13	.9998184	.9999004	.9999465	.9999718	.9999855	.9999927	.9999964	.9999983
14	.9994806	.9997038	.9998346	.9999096	.9999516	.9999747	.9999871	.9999938
15	.9986488	.9992954	.9995332	.9997349	.9998507	.9999199	.9999574	.9999779
16	.9967390	.9979928	.9987904	.9992865	.9995888	.9997675	.9998716	.9999307
17	.9927713	.9953804	.9971094	.9982396	.9989369	.9993779	.9996433	.9998001
18	.9851485	.9901801	.9936035	.9959338	.9974704	.9984604	.9990836	.9994668
19	.9716111	.9804781	.9868445	.9913239	.9943997	.9964631	.9978158	.9988805
20	.9493307	.9638710	.9747681	.9827482	.9884494	.9924335	.9951512	.9969815
21	.9158679	.9374252	.9547255	.9679165	.9777389	.9848016	.9899538	.9934707
22	.8667994	.8993186	.9257650	.9440594	.9597058	.9717098	.9805163	.9868788
23	.8034982	.8440034	.8791700	.9082737	.9317676	.9508873	.9645390	.9752450
24	.7282444	.7740271	.8192174	.8581515	.8908893	.9177577	.9338819	.9561128
25	.6505900	.6895730	.7438803	.7985153	.8351461	.8715738	.9019583	.9266770
26	.5305799	.5941689	.6551072	.7180641	.7639976	.8102005	.8503106	.8842904
27	.4290052	.4931975	.5573866	.6196777	.6780917	.7337899	.7833788	.8271061
28	.3383764	.3989999	.4561607	.5202036	.5835256	.6445917	.7020410	.7547704
29	.2458589	.2997184	.3580763	.4197144	.4931777	.5468985	.6093027	.6689214
30	.1733705	.2118029	.2687730	.3244229	.3940882	.4464604	.5100481	.5730806
31	.1168858	.1519785	.1934287	.2395682	.2998051	.3494943	.4102940	.4730857
32	.0740565	.0996948	.1311085	.1685951	.2131780	.2615644	.3161857	.3749087
33	.0447113	.0683444	.0848540	.1138306	.1467012	.1866612	.2336179	.2841545
34	.0255546	.0369171	.0530744	.0716711	.0963761	.1267318	.1630520	.2054585
35	.0138085	.0207033	.0308561	.0431361	.0600451	.0816693	.1086192	.1413683
36	.0070452	.0109630	.0166180	.0245593	.0354156	.0498703	.0686335	.0923398
37	.0033898	.0054771	.0086158	.0132068	.0197428	.0288019	.0410374	.0571438
38	.0015361	.0025783	.0042107	.0066977	.0103044	.0157053	.0231859	.0334353
39	.0006547	.0011419	.0019369	.0031985	.0051458	.0080780	.0123545	.0184618
40	.0002681	.0004752	.0008174	.0014361	.0023983	.0039037	.0061973	.0096018
41	.0000984	.0001855	.0003397	.0006052	.0010495	.0017733	.0029818	.0046947
42	.0000344	.0000678	.0001291	.0002390	.0004305	.0007553	.0013914	.0021537
43	.0000114	.0000233	.0000459	.0000883	.0001652	.0003010	.0005344	.0009251
44	.0000035	.0000074	.0000152	.0000304	.0000592	.0001120	.0002065	.0003719
45	.0000010	.0000022	.0000047	.0000098	.0000197	.0000388	.0000744	.0001388
46	.0000003	.0000006	.0000013	.0000029	.0000061	.0000125	.0000249	.0000483
47	.0000001	.0000002	.0000004	.0000008	.0000018	.0000037	.0000077	.0000156
48			.0000001	.0000002	.0000005	.0000010	.0000023	.0000046
49					.0000001	.0000003	.0000006	.0000013
50						.0000001	.0000001	.0000003
51								.0000001

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	.9999998	.9999999
13	.9999993	.9999996
14	.9999968	.9999985
15	.9999888	.9999944
16	.9999635	.9999812
17	.9998905	.9999415
18	.9996968	.9998316
19	.9991213	.9995510
20	.9981389	.9988662
21	.9958518	.9974230
22	.9913505	.9944293
23	.9830953	.9887125
24	.9689563	.9785217
25	.9463157	.9615371
26	.9133813	.9350410
27	.8647299	.8963161
28	.8019906	.8432485
29	.7244893	.7750187
30	.6346210	.6936725
31	.5367646	.5993468
32	.4366799	.5000000
33	.3405203	.4006532
34	.2537307	.3073375
35	.1801548	.2249813
36	.1215827	.1567515
37	.0778131	.1036039
38	.0471356	.0649590
39	.0269524	.0384629
40	.0145279	.0214783
41	.0073656	.0110875
42	.0035058	.0058707
43	.0015635	.0085762
44	.0006509	.0011138
45	.0008588	.0004490
46	.0000913	.0001684

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

%	.49	.50
47	.0000105	.0000585
48	.0000094	.0000100
49	.0000087	.0000056
50	.0000007	.0000015
51	.0000003	.0000004
52		.0000001

n	.01	.02	.03	.04	.05	.06	.07	.08
1	.4744035	.7255465	.8576190	.9246570	.9624759	.9809374	.9903454	.9951869
2	.1346240	.3670765	.5758523	.7310755	.8360708	.9030844	.9440720	.9684015
3	.0265123	.1366316	.3013282	.4743749	.6265257	.7464904	.8347660	.8950317
4	.0039438	.0394371	.1258591	.2535271	.3966907	.5359452	.6634553	.7631794
5	.0004670	.0091878	.0430992	.1128697	.2154430	.3348748	.4673904	.5883311
6	.0000456	.0017798	.0123842	.0427609	.1100320	.1848977	.2902993	.4055813
7	.0000038	.0002932	.0030431	.0138467	.0463066	.0983441	.1592269	.2408734
8	.0000003	.0000418	.0006493	.0039327	.0174196	.0471004	.0774826	.1376701
9		.0000052	.0001218	.0009815	.0059593	.0199717	.0336440	.0676690
10		.0000006	.0000203	.0002189	.0012367	.0074358	.0131126	.0301458
11		.0000001	.0000030	.0000437	.0003096	.0013067	.0046171	.0121278
12			.0000004	.0000079	.0000701	.0003809	.0014725	.0044350
13				.0000013	.0000144	.0000946	.0004284	.0014806
14				.0000002	.0000027	.0000215	.0001141	.0004529
15					.0000005	.0000045	.0000279	.0001274
16					.0000001	.0000008	.0000063	.0000331
17						.0000002	.0000013	.0000079
18							.0000003	.0000018
19								.0000004
20								.0000001

n	.09	.10	.11	.12	.13	.14	.15	.16
1	.9976086	.9988210	.9994253	.9997003	.9998451	.9999217	.9999626	.9999837
2	.9824720	.9904369	.9948614	.9972888	.9985776	.9992665	.9996263	.9998120
3	.9353154	.9610924	.9771009	.9867888	.9925162	.9959335	.9977180	.9987694
4	.8389295	.8937048	.9317350	.9572211	.9737037	.9842043	.9905585	.9944661
5	.6935563	.7795311	.8462279	.8957435	.9312440	.9556129	.9757386	.9872463
6	.5210255	.6272941	.7194085	.7951480	.8546616	.8996035	.9322657	.9555011
7	.3532345	.4609612	.5652777	.6602532	.7425809	.8099450	.8633588	.9044704
8	.2157354	.3078292	.4074359	.5078306	.6031436	.6990134	.7629012	.8239322
9	.1180437	.1865998	.2684376	.3597555	.4650101	.5687405	.6636642	.7346304
10	.0592184	.1027868	.1615126	.2341091	.3170823	.4056578	.4974216	.5850874
11	.0267847	.0515678	.0888779	.1398718	.2026461	.2768445	.3625615	.4493758
12	.0110377	.0236301	.0447893	.0767911	.1213583	.1757315	.2457314	.3247766
13	.0041592	.0099200	.0207222	.0387979	.0647667	.1044805	.1546819	.2157201
14	.0014380	.0038266	.0088239	.0180714	.0321534	.0571896	.0933406	.1343818
15	.0004577	.0013632	.0034667	.0077748	.0145685	.0289638	.0529878	.0775431
16	.0001345	.0004467	.0012596	.0031005	.0066859	.0139494	.0285813	.0421089
17	.0000366	.0001359	.0004243	.0011464	.0027163	.0059145	.0146455	.0221056
18	.0000092	.0000384	.0001327	.0003940	.0010279	.0023014	.0070103	.0109634
19	.0000022	.0000101	.0000386	.0001261	.0003593	.0008599	.0029844	.0049722
20	.0000005	.0000025	.0000105	.0000376	.0001170	.0003212	.0009758	.0019938
21	.0000001	.0000006	.0000027	.0000105	.0000354	.0001064	.0002843	.0006993
22		.0000001	.0000006	.0000027	.0000101	.0000299	.0000719	.0001977
23			.0000001	.0000007	.0000027	.0000076	.0000209	.0000515
24				.0000002	.0000007	.0000020	.0000054	.0000264
25					.0000002	.0000005	.0000024	.0000079
26						.0000002	.0000006	.0000022
27							.0000002	.0000006
28								.0000001

n	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999934	.9999970	.9999986	.9999994	.9999997	.9999999	.9999999	1.0000000
2	.9989066	.9995541	.9998077	.9999053	.9999444	.9999778	.9999888	.9999995
3	.9913465	.9966500	.9988235	.9996112	.9998653	.9999577	.9999831	.9999948
4	.9699758	.9881145	.9959761	.9989514	.9997313	.9999256	.9999810	.9999939
5	.9095711	.9738172	.9864021	.9957847	.9989451	.9996823	.9999517	.9999850
6	.8113714	.9419707	.9186756	.9732698	.9917051	.9976722	.9993679	.9999510
7	.6347168	.8563905	.7915150	.9017801	.9685818	.9928846	.9957723	.9974667
8	.4225096	.7098902	.6377735	.7579790	.9023316	.9820302	.9886057	.9929173
9	.2817291	.5371485	.4813815	.6155855	.8412246	.9600150	.9733536	.9826068
10	.1660358	.3737940	.3290755	.4696389	.7808449	.9213809	.9459062	.9633476
11	.0937065	.2378416	.2020905	.3389624	.7151605	.8814472	.8984358	.9271605
12	.0466634	.1485802	.1206170	.2426775	.6417401	.8278665	.8401463	.8725123
13	.0211105	.0863598	.0683406	.1724004	.5627155	.7650857	.7635549	.7965319
14	.0088941	.0453223	.0363837	.1210234	.4807516	.6964550	.6824417	.7004302
15	.0033350	.0216307	.0183208	.0820174	.3995921	.6238206	.5952455	.5998772
16	.0010615	.0098466	.0088095	.0539204	.3219550	.5496649	.5074556	.4971605
17	.0002888	.0039639	.0037633	.0337643	.2506381	.4761463	.4191835	.3969620
18	.0000821	.0014921	.0014402	.0199010	.1871361	.4050092	.3326092	.3006135
19	.0000242	.0005612	.0005400	.0111400	.1324584	.3380504	.2513345	.2170700
20	.0000069	.0001896	.0001998	.0059953	.0859823	.2760853	.1786065	.1446091
21	.0000019	.0000623	.0000727	.0030527	.0523551	.2199425	.1193475	.0939605
22	.0000005	.0000198	.0000260	.0014273	.0302856	.1697051	.0757301	.0566205
23	.0000001	.0000060	.0000091	.0006435	.0169802	.1257302	.0457335	.0329201
24		.0000017	.0000031	.0002802	.0090140	.0884435	.0262717	.0182636
25		.0000005	.0000010	.0001143	.0046358	.0597433	.0145213	.0098781
26		.0000001	.0000003	.0000434	.0023012	.0384215	.0077534	.0052676
27			.0000001	.0000163	.0011273	.0238898	.0040791	.0027823
28				.0000060	.0005435	.0145042	.0020546	.0014155
29				.0000021	.0002500	.0085358	.0010423	.0007080
30				.0000007	.0001140	.0049115	.0005291	.0003691
31				.0000002	.0000515	.0027975	.0002634	.0001545
32					.0000230	.0015615	.0001303	.0000552
33					.0000103	.0008615	.0000643	.0000186
34					.0000046	.0004715	.0000318	.0000059
35					.0000020	.0002569	.0000157	.0000016
					.0000009	.0001395	.0000078	.0000005
					.0000004	.0000755	.0000039	.0000001

n	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999975	.9999989	.9999995	.9999997	.9999999	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 63

c/p	.49	.50
47	.0000305	.0000585
48	.0000094	.0000188
49	.0000027	.0000056
50	.0000007	.0000015
51	.0000002	.0000004
52		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 64$$

x	.25	.26	.27	.28	.29	.30	.31	.32
4	.9999819	.9999911	.9999957	.9999979	.9999990	.9999996	.9999998	.9999999
5	.9999928	.9999497	.9999744	.9999872	.9999937	.9999969	.9999985	.9999993
6	.9993862	.9997752	.9998800	.9999370	.9999675	.9999835	.9999918	.9999960
7	.9985484	.9991724	.9995366	.9997451	.9998622	.9999268	.9999618	.9999804
8	.9956821	.9974175	.9984841	.9991266	.9995060	.9997256	.9998503	.9999198
9	.9888740	.9930242	.9957107	.9974130	.9984692	.9991111	.9994935	.9997167
10	.9747550	.9834196	.9893280	.9932665	.9958343	.9974726	.9984960	.9991220
11	.9488711	.9648598	.9763440	.9843976	.9899150	.9936103	.9960310	.9975827
12	.9065142	.9328465	.9527691	.9674660	.9780462	.9854845	.9905949	.9940268
13	.8441554	.8831689	.9142581	.9383844	.9566350	.9731035	.9798070	.9866359
14	.7610105	.8133516	.8572828	.8931464	.9216533	.9437361	.9604206	.9727237
15	.6600487	.7239909	.7805167	.8290593	.8696030	.9025706	.9286919	.9488748
16	.5470689	.6191343	.6858736	.7459834	.7947364	.8437628	.8811755	.9114633
17	.4333591	.5067223	.5786708	.6470422	.7100208	.7665775	.8157975	.8575475
18	.3359716	.3950054	.4667169	.5384010	.6078583	.6731768	.7328627	.7859085
19	.2317626	.2925145	.3585971	.4280832	.4988262	.5586570	.6355712	.6978815
20	.1560571	.2053316	.2617803	.3242167	.3910065	.4602079	.5297453	.5975917
21	.0992780	.1364099	.1812102	.2333336	.2919107	.3856319	.4237632	.4914005
22	.0594227	.0856723	.1187722	.1592806	.2071192	.2817270	.3220605	.3866975
23	.0337867	.0500291	.0736350	.1029929	.1394208	.1830664	.2336402	.2903031
24	.0180604	.0284737	.0431492	.0630205	.0889268	.1135059	.1610922	.2076354
25	.0091052	.0150555	.0238868	.0364647	.0536936	.0754348	.1054108	.1411047
26	.0043291	.0075123	.0124877	.0199411	.0306679	.0485289	.0653847	.0910110
27	.0019410	.0035368	.0061635	.0103024	.0165607	.0256609	.0384106	.0555507
28	.0008207	.0015709	.0028715	.0050269	.0084510	.0136770	.0213545	.0322313
29	.0003272	.0006582	.0012625	.0023158	.0040739	.0068902	.0112286	.0176679
30	.0001230	.0002601	.0005237	.0010070	.0018546	.0032794	.0055811	.0091604
31	.0000436	.0000970	.0002050	.0004132	.0007970	.0014741	.0026210	.0044895
32	.0000146	.0000341	.0000756	.0001600	.0003232	.0006255	.0011624	.0020788
33	.0000046	.0000113	.0000263	.0000584	.0001236	.0002504	.0004866	.0009088
34	.0000014	.0000035	.0000086	.0000201	.0000446	.0000946	.0001921	.0003750
35	.0000004	.0000010	.0000027	.0000065	.0000152	.0000337	.0000715	.0001459
36	.0000001	.0000003	.0000008	.0000020	.0000049	.0000113	.0000251	.0000535
37		.0000001	.0000002	.0000006	.0000015	.0000036	.0000083	.0000185
38			.0000001	.0000002	.0000004	.0000011	.0000026	.0000060
39					.0000001	.0000003	.0000008	.0000018
40						.0000001	.0000002	.0000005
41							.0000001	.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999980	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
7	.9999901	.9999951	.9999976	.9999988	.9999995	.9999998	.9999999	1.0000000
8	.9999578	.9999782	.9999890	.9999945	.9999973	.9999987	.9999994	.9999997
9	.9998445	.9999162	.9999557	.9999770	.9999883	.9999942	.9999971	.9999986
10	.9994972	.9997175	.9998443	.9999158	.9999554	.9999768	.9999882	.9999941
11	.9985564	.9991546	.9995145	.9997266	.9998490	.9999183	.9999566	.9999775
12	.9962815	.9977306	.9986425	.9992039	.9995424	.9997422	.9998577	.9999230
13	.9913328	.9944914	.9969688	.9980055	.9987471	.9992655	.9995782	.9997627
14	.9815832	.9874163	.9931024	.9949840	.9968786	.9980570	.9988634	.9993351
15	.9640000	.9752096	.9833414	.9889976	.9928811	.9954879	.9971988	.9982968
16	.9353699	.9537792	.9676165	.9777731	.9850554	.9901575	.9936511	.9959894
17	.8920485	.9198433	.9416856	.9584370	.9709799	.9801523	.9867048	.9912784
18	.8318018	.8704819	.9022612	.9277269	.9476391	.9628377	.9741652	.9824108
19	.7543203	.8040050	.8468311	.8826215	.9118456	.9351282	.9532317	.9669745
20	.6619268	.7212742	.7745700	.8211947	.8609516	.8946109	.9208891	.9420597
21	.5595355	.6252890	.6870230	.7434516	.7936986	.8373018	.8742171	.9046876
22	.4530674	.5316858	.5882520	.6518258	.7109414	.7644932	.8117766	.8524853
23	.3521461	.4373692	.4943006	.5610895	.6159437	.6772619	.7337494	.7844640
24	.2606545	.3492374	.3920876	.4476158	.5140621	.5796387	.6426526	.7016556
25	.1836719	.2728764	.2880648	.3481840	.4118436	.4774147	.5431556	.6073460
26	.1230050	.1616940	.2070604	.2586954	.3157906	.3771782	.4413750	.5067491
27	.0781839	.1066894	.1416339	.1831894	.2311785	.2850137	.3437658	.4061521
28	.0471139	.0668096	.0920514	.1234139	.1612246	.2055174	.2559353	.3117649
29	.0268919	.0396619	.0567715	.0789625	.1069434	.1411348	.1817318	.2286142
30	.0145276	.0223010	.0331892	.0479571	.0673740	.0921460	.1228389	.1597999
31	.0074228	.0118670	.0183747	.0275967	.0402582	.0571179	.0789106	.1062776
32	.0035848	.0058717	.0096256	.0150356	.0227919	.0335713	.0481073	.0671431
33	.0016353	.0028398	.0047674	.0077492	.0122133	.0186885	.0277980	.0402381
34	.0007042	.0012713	.0022307	.0037748	.0061886	.0098433	.0152068	.0228449
35	.0002861	.0005404	.0009853	.0017365	.0029628	.0049004	.0078670	.0122726
36	.0001096	.0002160	.0004105	.0007537	.0013388	.0023036	.0038447	.0062313
37	.0000395	.0000811	.0001612	.0003084	.0005705	.0010215	.0017731	.0029869
38	.0000134	.0000298	.0000596	.0001189	.0002290	.0004269	.0007708	.0013501
39	.0000043	.0000096	.0000207	.0000431	.0000865	.0001670	.0003155	.0005748
40	.0000013	.0000030	.0000068	.0000147	.0000307	.0000621	.0001215	.0002302
41	.0000004	.0000009	.0000021	.0000047	.0000102	.0000216	.0000439	.0000866
42	.0000001	.0000002	.0000006	.0000014	.0000032	.0000070	.0000149	.0000306
43		.0000001	.0000002	.0000004	.0000009	.0000021	.0000047	.0000101
44				.0000001	.0000003	.0000008	.0000014	.0000031
45					.0000001	.0000002	.0000004	.0000009
46							.0000001	.0000002
47								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 64$$

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999971	.9999986	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000
11	.9999885	.9999943	.9999972	.9999987	.9999994	.9999997	.9999999	.9999999
12	.9999592	.9999788	.9999892	.9999946	.9999974	.9999988	.9999994	.9999997
13	.9998692	.9999294	.9999627	.9999807	.9999903	.9999952	.9999977	.9999989
14	.9996191	.9997864	.9998827	.9999370	.9999669	.9999830	.9999914	.9999958
15	.9989860	.9994089	.9996628	.9998118	.9998972	.999945	.9999714	.9999854
16	.9975193	.9984979	.9991098	.9994838	.9997072	.9998376	.9999120	.9999534
17	.9943981	.9964776	.9978323	.9986947	.9992311	.9995571	.9997506	.9998628
18	.9882739	.9923468	.9951111	.9969440	.9981312	.9980825	.9993467	.9996268
19	.9771615	.9845363	.9897508	.9933528	.9957815	.9973819	.9984114	.9990579
20	.9584557	.9708430	.9799609	.9865198	.9911271	.9942871	.9964033	.9977866
21	.9292337	.9485324	.9633438	.9744412	.9825586	.9883555	.9923966	.9951463
22	.8866715	.9146819	.9370785	.9545565	.9678699	.9777685	.9849519	.9900396
23	.8288617	.8667713	.8983509	.9240194	.9443800	.9601413	.9720483	.9800262
24	.7555025	.8034171	.8450004	.8802053	.9092645	.9327213	.9511527	.9652960
25	.6684143	.7250437	.7762456	.8213952	.8602305	.8928184	.9194972	.9408059
26	.5715840	.6342386	.6932573	.7474626	.7960145	.8384322	.8745822	.9046360
27	.4706508	.5356055	.5993494	.6603277	.7172038	.7689388	.8148367	.8545546
28	.3719352	.4350829	.4996448	.5639722	.6264521	.6856229	.7402698	.7894915
29	.2812866	.3388931	.4002526	.4639297	.5283343	.5918374	.6528897	.7101289
30	.2030882	.2524253	.3071738	.3663512	.4286785	.4926620	.5566978	.6191882
31	.1396901	.1793749	.2252537	.2769043	.3335525	.3940987	.4571784	.5212521
32	.0913703	.1213571	.1574736	.1998235	.2481902	.3020122	.3603848	.4221008
33	.0567428	.0780313	.1047434	.1373670	.1761658	.2211167	.2718666	.3277165
34	.0334088	.0476082	.0661699	.0897813	.1190224	.1542939	.1957480	.2432326
35	.0186244	.0275215	.0396382	.0556915	.0763941	.1023934	.1342026	.1721285
36	.0098182	.0150539	.0224824	.0327331	.0464989	.0644978	.0874215	.1158703
37	.0048885	.0077811	.0120568	.0182019	.0267952	.0384934	.0540029	.0740373
38	.0022961	.0037957	.0061049	.0095617	.0145954	.0217297	.0315761	.0448151
39	.0010161	.0017451	.0029147	.0047382	.0075032	.0115833	.0174453	.0256491
40	.0004231	.0007552	.0013102	.0022115	.0036347	.0058211	.0090912	.0138546
41	.0001655	.0003071	.0005537	.0009708	.0016565	.0027533	.0044610	.0070501
42	.0000608	.0001172	.0002197	.0004091	.0007091	.0012236	.0020574	.0033734
43	.0000209	.0000419	.0000817	.0001546	.0002846	.0005099	.0008902	.0015148
44	.0000067	.0000140	.0000284	.0000559	.0001069	.0001989	.0003606	.0006371
45	.0000020	.0000044	.0000092	.0000189	.0000375	.0000725	.0001365	.0002504
46	.0000005	.0000013	.0000028	.0000059	.0000122	.0000246	.0000481	.0000917
47	.0000001	.0000003	.0000008	.0000017	.0000037	.0000078	.0000158	.0000313
48		.0000001	.0000002	.0000005	.0000010	.0000023	.0000048	.0000099
49				.0000001	.0000003	.0000006	.0000013	.0000025
50					.0000001	.0000002	.0000003	.0000008
51							.0000001	.0000002

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	.9999999	.9999999
13	.9999995	.9999998
14	.9999980	.9999991
15	.9999927	.9999965
16	.9999759	.9999878
17	.9999263	.9999613
18	.9997918	.9998866
19	.9994543	.9996913
20	.9986692	.9992186
21	.9969721	.9981550
22	.9935558	.9959265
23	.9871403	.9915709
24	.9758843	.9836171
25	.9574096	.9700294
26	.9290091	.9482891
27	.8880791	.9156785
28	.8307389	.8697825
29	.7624649	.8091336
30	.6786564	.7338456
31	.5847143	.6460096
32	.4857814	.5496734
33	.3876365	.4503266
34	.2982575	.3539904
35	.2162070	.2661344
36	.1500830	.1908664
37	.0998602	.1302177
38	.0621625	.0843215
39	.0368373	.0517109
40	.0206159	.0299706
41	.0108751	.0163839
42	.0053968	.0084291
43	.0025143	.0040735
44	.0010976	.0018450
45	.0004478	.0007614

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 64

c	.49	.50
46	.0001704	.0003087
47	.0000603	.0001134
48	.0000198	.0000387
49	.0000060	.0000122
50	.0000017	.0000035
51	.0000004	.0000009
52	.0000001	.0000002
53		.0000001

$$P(c;n;p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 65

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.47965995	.73103553	.86190980	.92959070	.96435210	.98008110	.99105850	.99589200
2	.13802180	.37424590	.58430590	.73889880	.84239860	.90773690	.94731470	.97754410
3	.02759340	.14124050	.30956390	.48464290	.63700330	.75580490	.84195240	.90990130
4	.00416920	.04130100	.13112320	.26216200	.40999750	.55233850	.67541210	.77127740
5	.00050180	.00979280	.04558200	.11804790	.22479930	.35095760	.48111490	.60231910
6	.00004980	.00192800	.01330570	.04645010	.01597430	.19413750	.30269590	.44017730
7	.00000420	.00032290	.00332330	.01501760	.00432660	.09403960	.16804010	.26235400
8	.00000030	.00004680	.00072110	.00433000	.00152260	.04010750	.08320470	.14464240
9		.00000600	.00013760	.00110150	.00049260	.00152660	.03671570	.07340030
10		.00000070	.00002330	.00024950	.00013960	.00051920	.01454900	.03316320
11		.00000010	.00000350	.00005070	.00003560	.00015910	.00528810	.01356950
12			.00000050	.00000930	.00000820	.00004410	.00169230	.00550500
13			.00000010	.00000160	.00000170	.00001110	.00050150	.00211690
14				.00000020	.00000030	.00000250	.00013610	.00071350
15					.00000000	.00000050	.00003400	.00021550
16					.00000010	.00000010	.00000780	.00006060
17						.00000002	.00000170	.00001690
18							.00000030	.00000420
19							.00000001	.00000090
20								.00000010

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.99778230	.99893890	.99948670	.99975380	.99888480	.99954470	.99980740	.99992800
2	.98383430	.99127530	.99556320	.99757110	.99674500	.99936000	.99966770	.99985390
3	.93955950	.96402680	.97905450	.98804680	.99330420	.99631410	.99880070	.99959640
4	.84760430	.90044720	.93672520	.96077260	.97623130	.98590120	.99180230	.99539250
5	.70663990	.79094890	.85563370	.90312480	.93669900	.96296690	.97403810	.98466540
6	.53655330	.64251780	.73335860	.80721990	.86460380	.90744480	.93831510	.95906030
7	.36833570	.47759450	.58223210	.67644060	.75689050	.82377970	.87386280	.91253530
8	.22011040	.33314240	.42479850	.52612920	.62123140	.70514410	.77799680	.83681330
9	.12756420	.19872270	.28837270	.37752890	.47426760	.56837210	.65534470	.73211800
10	.06458470	.11116010	.17330100	.24918670	.33518690	.42665490	.51826300	.60581430
11	.02970380	.05668970	.09680710	.15110220	.21888080	.29725540	.38279390	.47110890
12	.01245300	.02642390	.04963900	.08043610	.13185610	.18201430	.26326240	.34873050
13	.00477830	.01129100	.02336960	.04335700	.07533080	.11491900	.16034040	.23290110
14	.00168300	.00443590	.01013260	.02056110	.03977150	.06375320	.09004460	.14739600
15	.00054590	.00160680	.00405600	.00901520	.01800340	.03301540	.04852900	.08669730
16	.00016350	.00053810	.00150240	.00366200	.00796050	.01569170	.02442710	.04704240
17	.00004540	.00016700	.00051610	.00138690	.00327060	.00690650	.01161580	.02485020
18	.00001170	.00004810	.00016480	.00048430	.00125080	.00280930	.00540210	.01176230
19	.00000280	.00001290	.00004900	.00015820	.00044590	.00111860	.00235670	.00526690
20	.00000060	.00000320	.00001360	.00004820	.00014940	.00040410	.00098910	.00229640
21	.00000010	.00000080	.00000350	.00001370	.00004620	.00013650	.00038070	.00094240
22		.00000020	.00000090	.00000370	.00001350	.00004320	.00013940	.00036510
23			.00000020	.00000090	.00000370	.00001280	.00004960	.00013000
24				.00000020	.00000090	.00000360	.00001690	.00004610
25					.00000020	.00000090	.00000540	.00001580
26					.00000010	.00000020	.00000160	.00000510
27						.00000010	.00000040	.00000150
28							.00000010	.00000040
29								.00000010

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.99999450	.99999750	.99999890	.99999950	.99999980	.99999990	1.00000000	1.00000000
2	.99992130	.99996180	.99998170	.99999130	.99999590	.99999810	.99999910	.99999960
3	.99944170	.99971130	.99985280	.99992410	.99996340	.99998210	.99999140	.99999590
4	.99737890	.99865360	.99929180	.99965330	.99983150	.99992080	.99996480	.99998710
5	.99008290	.99462670	.99691020	.99825520	.99903200	.99947210	.99971700	.99985070
6	.97446530	.98410310	.99030560	.99420460	.99660150	.99804400	.99899460	.99939640
7	.94099470	.96100230	.97481350	.98400700	.99014070	.99540160	.99643830	.99794200
8	.88308470	.91826180	.94418440	.96273980	.97566520	.98444980	.99042540	.99430171
9	.79716180	.85024200	.89209600	.92406440	.94776770	.96480590	.97606160	.98506130
10	.68570360	.75567780	.81471360	.86282830	.90080110	.92900060	.95155260	.96720090
11	.55786240	.63943300	.71306570	.77709770	.83000620	.87463260	.90914670	.93560580
12	.42649070	.51184730	.59384900	.66903450	.73779610	.79671970	.84585200	.88570190
13	.30627190	.38581750	.46800910	.54937580	.62680450	.69782810	.76007750	.81479120
14	.20556090	.27302910	.34766650	.42649880	.50633940	.58411360	.65717080	.72349460
15	.12888590	.18106950	.24281780	.31239870	.38739930	.46499840	.54222490	.61640990
16	.07547700	.11243570	.15919770	.21541350	.27990140	.35074210	.42540760	.50143430
17	.04113040	.06533540	.09790210	.13964390	.19260340	.25004800	.31652020	.38709720
18	.02113310	.03556620	.05645360	.08505450	.12218360	.16818650	.22237030	.28466970
19	.01011580	.01812900	.03053680	.04864610	.07360360	.10661550	.14470740	.19772040
20	.00453380	.00866350	.01549520	.02613610	.04179180	.06365710	.09237630	.12979170
21	.00190430	.00388000	.00738010	.01319290	.02329340	.03579810	.05482390	.08044020
22	.00075020	.00163140	.00330110	.00625900	.01118670	.01894590	.03054310	.04705780
23	.00027740	.00066420	.00138750	.00279210	.00528190	.00944460	.01603570	.02650690
24	.00009630	.00023900	.00054830	.00117160	.00238740	.00443440	.00793720	.01351860
25	.00003150	.00008340	.00020380	.00046270	.00098230	.00196140	.00370290	.00663010
26	.00000970	.00002740	.00007130	.00017200	.00038710	.00081750	.00162060	.00307470
27	.00000280	.00000850	.00002350	.00006020	.00014380	.00032120	.00067540	.00134350
28	.00000080	.00000250	.00000750	.00002120	.00005030	.00011800	.00026420	.00055380
29	.00000020	.00000070	.00000210	.00000620	.00001660	.00004150	.00009740	.00021540
30	.00000002	.00000020	.00000060	.00000180	.00000520	.00001370	.00003390	.00007900
31			.00000020	.00000050	.00000150	.00000420	.00001110	.00002740
32				.00000010	.00000040	.00000120	.00000340	.00000890
33					.00000010	.00000030	.00000100	.00000280
34						.00000010	.00000030	.00000080
35							.00000010	.00000020
36								.00000010

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 65

c	.25	.26	.27	.28	.29	.30	.31	.32
2	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999981	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
4	.9999858	.9999931	.9999967	.9999984	.9999993	.9999997	.9999999	.9999999
5	.9999226	.9999605	.9999802	.9999902	.9999958	.9999977	.9999989	.9999995
6	.9996653	.9998006	.9999055	.9999510	.9999751	.9999875	.9999939	.9999970
7	.9988070	.9993292	.9996293	.9997988	.9998927	.9999438	.9999711	.9999854
8	.9963007	.9978738	.9987603	.9992990	.9996093	.9997860	.9998849	.9999392
9	.9905766	.9941664	.9966595	.9978928	.9987699	.9992955	.9996041	.9998217
10	.9788856	.9859168	.9910513	.9944275	.9965984	.9979642	.9988058	.9993123
11	.9553423	.9696851	.9790497	.9864809	.9916316	.9947690	.9967958	.9980753
12	.9171034	.9411699	.9591344	.9722068	.9814882	.9879223	.9933799	.9951647
13	.8597191	.8960851	.9246561	.9465273	.9628443	.9747178	.9831511	.9890010
14	.7817937	.8315041	.8726661	.9058131	.9317980	.9516463	.9664304	.9771756
15	.6854801	.7472247	.8012436	.8470037	.8846976	.9149202	.9385878	.9565061
16	.5759139	.6465450	.7114273	.7692446	.8192877	.8614051	.8959056	.9834348
17	.4619813	.5360014	.6076156	.6747458	.7357980	.7899331	.8360647	.8746005
18	.3525167	.4240518	.4969445	.5688206	.6375057	.7011970	.7585725	.8086330
19	.2552148	.3191631	.3877894	.4589722	.5304455	.6000129	.6657315	.7360502
20	.1749835	.2279991	.2879208	.3539994	.4222742	.4927426	.5625513	.6296838
21	.1134727	.1543296	.2029641	.2587809	.3206542	.3870047	.4659318	.5253814
22	.0695365	.0988641	.1356305	.1800155	.2317111	.2898905	.3732857	.4202024
23	.0402457	.0598803	.0858321	.1187535	.1590533	.2066646	.2810530	.3212105
24	.0219220	.0342861	.0513804	.0742128	.1035700	.1399740	.1835831	.2341179
25	.0113440	.0185442	.0290877	.0439003	.0639112	.0899561	.1226780	.1623945
26	.0055231	.0094735	.0155654	.0245677	.0373454	.0548067	.0777929	.1070410
27	.0025380	.0045704	.0078710	.0130012	.0206518	.0316213	.0467726	.0669560
28	.0011008	.0020021	.0037603	.0065040	.0108028	.0172781	.0266419	.0397255
29	.0004506	.0008555	.0016969	.0030749	.0053433	.0089262	.0143676	.0223283
30	.0001741	.0003616	.0007232	.0013735	.0024902	.0043627	.0073318	.0118828
31	.0000634	.0001394	.0002910	.0005795	.0011037	.0020157	.0035386	.0059842
32	.0000218	.0000504	.0001106	.0002309	.0004606	.0008801	.0016145	.0028502
33	.0000071	.0000172	.0000398	.0000868	.0001815	.0003529	.0006961	.0012832
34	.0000022	.0000055	.0000134	.0000308	.0000675	.0001413	.0002834	.0005458
35	.0000006	.0000017	.0000043	.0000103	.0000237	.0000519	.0001089	.0002192
36	.0000002	.0000005	.0000013	.0000033	.0000078	.0000180	.0000395	.0000831
37		.0000001	.0000004	.0000010	.0000024	.0000059	.0000135	.0000297
38			.0000001	.0000003	.0000007	.0000018	.0000043	.0000100
39				.0000001	.0000002	.0000005	.0000013	.0000032
40					.0000001	.0000001	.0000004	.0000009
41							.0000001	.0000003
42								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999986	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
7	.9999927	.9999965	.9999983	.9999992	.9999996	.9999998	.9999999	1.0000000
8	.9999685	.9999840	.9999920	.9999961	.9999981	.9999991	.9999996	.9999998
9	.9998819	.9999373	.9999674	.9999833	.9999916	.9999959	.9999980	.9999991
10	.9996118	.9997851	.9998833	.9999379	.9999676	.9999834	.9999917	.9999959
11	.9983666	.9993460	.9996299	.9997947	.9998884	.9999405	.9999689	.9999841
12	.9970328	.9982149	.9989477	.9993921	.9996559	.9998091	.9999063	.9999448
13	.9929650	.9955928	.9972946	.9983729	.9990413	.9994467	.9996872	.9998068
14	.9848006	.9900850	.9936657	.9960358	.9975699	.9985410	.9991428	.9995061
15	.9699628	.9795487	.9864078	.9911527	.9943602	.9964193	.9970480	.9987181
16	.9448475	.9610928	.9731302	.9818139	.9879509	.9921830	.9950347	.9969123
17	.9063446	.9313815	.9507614	.9653900	.9761079	.9839543	.9894158	.9931628
18	.8516832	.8872647	.9160597	.9387825	.9563752	.9694172	.9795017	.9859578
19	.7798892	.8266599	.8662316	.8988593	.9250893	.9456578	.9613958	.9731490
20	.6924166	.7494299	.7998614	.8433083	.8797824	.9096355	.9361	.9520256
21	.5933246	.6579239	.7176645	.7714391	.8185822	.8588551	.8923958	.9197 64
22	.4887193	.5569109	.6328218	.6848111	.7415615	.7921673	.8361384	.8733564
23	.3851149	.4528369	.5206836	.5873546	.6510928	.7104116	.7641800	.8116165
24	.2908467	.3526032	.4170622	.4848663	.5517882	.6167344	.6781804	.7347790
25	.2090762	.2622191	.3209728	.3839795	.4496644	.5162586	.5819595	.6450698
26	.1430251	.1858960	.2354120	.2909113	.3513302	.4178643	.4810695	.5469979
27	.0929748	.1253910	.1645332	.2103716	.2634812	.3300339	.3818354	.4463700
28	.0573670	.0803687	.1094052	.1449331	.1871085	.2357260	.2901 92	.3495
29	.0335651	.0488921	.0691194	.0949778	.1270324	.1655989	.0104	.2611
30	.0186078	.0282037	.0414430	.0591262	.0820165	.1107610	.1458	.1873
31	.0097674	.0154145	.0235597	.0349264	.0502910	.0704	.0960	.1 65
32	.0048513	.0079761	.0125078	.0195576	.0282544	.0 2519	.0401	.0 69
33	.0022786	.0038046	.0064678	.0101723	.0151274	.0243444	.0357	.0 01
34	.0010115	.0018072	.0031106	.0052056	.0084179	.01 2044	.0201	.0 382
35	.0004241	.0007903	.0014212	.0026 3	.0041564	.0 7787	.0107	.0 216
36	.0001678	.0003263	.0006117	.0011075	.0019397	.0032904	.0054 4	.0 86478
37	.0000626	.0001271	.0002405	.0004687	.0008548	.0015087	.00256 0	.0042847
38	.0000220	.0000467	.0000952	.0001871	.0003554	.0006526	.0011617	.0020048
39	.0000073	.0000161	.0000343	.0000704	.0001392	.0002585	.00049	.0008849
40	.0000023	.0000053	.0000117	.0000249	.0000514	.0001021	.0001	.0003680
41	.0000007	.0000015	.0000037	.0000083	.0000178	.0000370	.0 0	.0001447
42	.0000002	.0000005	.0000011	.0000026	.0000058	.0000125	.0 352	.0000536
43		.0000001	.0000003	.0000008	.0000018	.0000040	.0000 87	.0000193
44			.0000001	.0000002	.0000005	.0000012	.0000027	.0000069
45				.0000001	.0000001	.0000003	.0000008	.0000018
46						.0000001	.0000002	.0000005
47							.0000001	.0000001

$$P(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^{n-r}(1-p)^{o-r}$$

n = 65

x/p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	.99999996	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	.99999980	.99999991	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000
11	.99999820	.99999961	.99999981	.99999991	.99999996	.99999998	.99999999	1.00000000
12	.99997713	.99998853	.99999427	.99999964	.99999983	.99999992	.99999996	.99999998
13	.99990061	.99994503	.99997741	.99999869	.99999935	.99999968	.99999985	.99999993
14	.99973216	.99988464	.99991171	.99995562	.99997774	.99999886	.99999944	.99999973
15	.99924455	.99956575	.99975574	.99985669	.99992286	.99996525	.99998838	.99999504
16	.99811206	.99888805	.99943476	.99962281	.99977227	.99990871	.99995399	.99998087
17	.99567778	.99733261	.99838816	.99904193	.99944533	.99976861	.99988865	.99995063
18	.99079848	.99408017	.99628112	.99771433	.99862628	.99931928	.99965369	.99987401
19	.98171753	.98701677	.99205557	.99493326	.99603099	.99807228	.99905510	.99957310
20	.96611309	.97659242	.98411706	.98951261	.99382216	.99571107	.99734725	.99859969
21	.94112188	.95790299	.97040892	.97975561	.98641446	.99168402	.99427977	.99641377
22	.90412200	.92880992	.94037268	.96330588	.97447988	.98286385	.99048509	.99249088
23	.85256379	.88688938	.91500377	.93745577	.95495088	.96824988	.97811308	.98524877
24	.78557977	.83002599	.88679411	.89948359	.92509775	.94533465	.96097368	.97375058
25	.70411204	.75795068	.85058102	.85472716	.88230408	.91117378	.93437538	.95256611
26	.61120448	.67232688	.78209422	.77999308	.82491178	.86344998	.89569228	.92199768
27	.51203338	.57703148	.65397298	.69868718	.75266868	.80009588	.84291718	.87855378
28	.41124086	.47730248	.53425178	.60636868	.66729048	.73194828	.77531628	.82073188
29	.31045258	.37929888	.44299138	.50798848	.57248738	.63497678	.69395838	.74827308
30	.22351498	.28874188	.34719778	.40928578	.47352368	.53028278	.60190808	.66288988
31	.15568338	.21005618	.26047938	.31626098	.37635928	.43943788	.50395258	.56826148
32	.11118148	.14572468	.18661908	.23373898	.28660328	.34437808	.40587708	.46969348
33	.07094008	.09622818	.12741748	.16184788	.20857688	.25033868	.31347018	.37302108
34	.04297578	.06036598	.08275658	.11071908	.14473698	.18563248	.23152378	.28378498
35	.02468608	.03595798	.05104688	.07069108	.09557708	.12626768	.16312898	.20625858
36	.01342078	.02029038	.02985948	.04283488	.05995178	.08119908	.10940868	.14287428
37	.00690978	.01083578	.01653908	.02459568	.03565198	.05047548	.06977068	.09411718
38	.00335908	.00546968	.00866428	.01336348	.02000538	.02944108	.04211678	.05884178
39	.00154098	.00260648	.00426058	.00686058	.01069478	.01685068	.02408688	.03408488
40	.00066628	.00117108	.00200018	.00332328	.00537558	.00847178	.01201768	.01695608
41	.00027118	.00049538	.00087908	.00151678	.00254678	.00416458	.00663728	.01031638
42	.00010378	.00019708	.00036338	.00065128	.00113548	.00190278	.00312718	.00506038
43	.00003728	.00007368	.00014108	.00026268	.00047568	.00083828	.00144008	.00240698
44	.00001358	.00002578	.00005138	.00009938	.00018688	.00034208	.00060958	.00105568
45	.00000398	.00000848	.00001758	.00003518	.00006078	.00013078	.00024108	.00043608
46	.00000128	.00000268	.00000568	.00001168	.00002368	.00004668	.00008978	.00015798
47	.00000038	.00000078	.00000168	.00000368	.00000768	.00001558	.00003108	.00006038
48	.00000018	.00000028	.00000058	.00000108	.00000228	.00000488	.00001008	.00002018
49			.00000018	.00000038	.00000068	.00000148	.00000308	.00000628
50				.00000018	.00000028	.00000048	.00000088	.00000188
51						.00000018	.00000028	.00000058
52								.00000018

x/p	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	.99999999	1.00000000
13	.99999997	.99999999
14	.99999987	.99999994
15	.99999953	.99999978
16	.99998841	.99999921
17	.99999506	.99999746
18	.99998577	.99999239
19	.99996196	.99997889
20	.99990539	.99994550
21	.99978037	.99986868
22	.99952298	.99970408
23	.99902839	.99937487
24	.99813997	.99875940
25	.99664632	.99768233
26	.99429253	.99591592
27	.99081348	.99339838
28	.98598525	.98927304
29	.97968962	.98345579
30	.97197236	.97544896
31	.96307459	.96399276
32	.95342279	.95978415
33	.94356991	.95000000
34	.93410343	.94021585
35	.92554318	.93100724
36	.91825858	.92285104
37	.91243614	.91605421
38	.90803404	.91072696
39	.90492466	.90690162
40	.90285644	.90448408
41	.90156481	.90321767
42	.90080813	.90240600

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 65

x	.49	.50
43	.00195260	.00263513
44	.00137018	.00205592
45	.00092663	.00151132
46	.00061063	.00105450
47	.00041182	.00072111
48	.00027395	.00048761
49	.00018128	.00032254
50	.00011930	.00021079
51	.00007810	.00013623
52	.00005093	.00008706
53	.00003321	.00005501

$$I_{n+1}(x) = \sum_{r=0}^{n} (-1)^r \binom{n}{r} x^r I_{n-r}(x)$$

n	.01	.02	.03	.04	.05	.06	.07	.08
1	.4896629	.736 148	.8660505	.9324071	.9661345	.9831563	.9916840	.9959262
2	.1414381	.3813817	.5926340	.7465264	.8484963	.9121576	.9505768	.9735463
3	.0286977	.1459006	.3179061	.4948131	.6473731	.7649960	.8493278	.9064727
4	.0044035	.0433782	.1364764	.2710600	.4213303	.5645513	.6870699	.7839015
5	.0005385	.0104245	.0481483	.1248358	.2340508	.3630404	.4947157	.6160318
6	.0000544	.0020853	.0143740	.0483716	.1118201	.2035467	.3151858	.4350847
7	.0000046	.0003550	.0036320	.0162349	.0464163	.1000455	.1778085	.2750019
8	.0000003	.0000523	.0007998	.0047576	.0169108	.0434187	.0891685	.1557337
9		.0000068	.0001551	.0012306	.0054580	.0167616	.0399671	.0792453
10		.0000008	.0000268	.0002836	.0015734	.0057967	.0161012	.0363822
11		.0000001	.0000041	.0000587	.0004000	.0018078	.0058620	.0151370
12			.0000006	.0000110	.0000958	.0005104	.0019384	.0057320
13			.0000001	.0000019	.0000205	.0001316	.0005849	.0019836
14				.0000003	.0000040	.0000310	.0001617	.0006897
15					.0000007	.0000067	.0000411	.0001840
16					.0000001	.0000013	.0000096	.0000496
17						.0000002	.0000021	.0000124
18							.0000004	.0000029
19							.0000001	.0000006
20								.0000001

n	.09	.10	.11	.12	.13	.14	.15	.16
1	.9980197	.9990450	.9995432	.9997815	.9998981	.9999585	.9999780	.9999899
2	.9850933	.9920416	.9958168	.9978330	.9988939	.9994419	.9997283	.9998635
3	.9435448	.9667517	.9800485	.9891097	.9940115	.9967405	.9983553	.9990809
4	.8558809	.9068051	.9413815	.9640455	.9784500	.9873590	.9927326	.9959008
5	.7193267	.8018987	.8645538	.9100426	.9418295	.9633053	.9773827	.9863605
6	.5518611	.6573609	.7460089	.8187285	.8739749	.9147503	.9437936	.9638878
7	.3834753	.4940868	.5980560	.6921341	.7708931	.8343899	.8835307	.9301913
8	.2407306	.3386876	.4421162	.5441665	.6388671	.7232591	.7923767	.8489490
9	.1366133	.2111647	.2992453	.3953503	.4933709	.5876369	.6737425	.7488706
10	.0708599	.1199235	.1954479	.2845874	.3538674	.4464054	.5388853	.6260310
11	.0328431	.0621375	.1052784	.1889428	.2539362	.3153557	.4031143	.4926456
12	.0140073	.0294505	.0540346	.0993795	.1731597	.2067479	.2811928	.3633099
13	.0054692	.0128043	.0262592	.0489775	.1097099	.1257130	.1885787	.2603978
14	.0019615	.0051214	.0115087	.0230966	.0654010	.0709166	.1190019	.1810600
15	.0006483	.0018097	.0047244	.0104007	.0365732	.0371468	.0619994	.0966409
16	.0001980	.0006449	.0017833	.0043044	.0193659	.0180090	.0304558	.0541033
17	.0000560	.0002041	.0006246	.0016546	.0093802	.0082001	.0145375	.0280769
18	.0000147	.0000600	.0002034	.0005918	.0041533	.0034653	.0067121	.0138083
19	.0000036	.0000164	.0000617	.0001973	.0005506	.0013670	.0030685	.0066051
20	.0000008	.0000042	.0000175	.0000614	.0001871	.0005041	.0012213	.0029650
21	.0000002	.0000010	.0000046	.0000179	.0000595	.0001740	.0004552	.0012801
22		.0000002	.0000011	.0000049	.0000177	.0000563	.0001580	.0005053
23			.0000003	.0000012	.0000049	.0000171	.0000541	.0002130
24			.0000001	.0000003	.0000013	.0000049	.0000161	.0000775
25				.0000001	.0000003	.0000013	.0000046	.0000141
26					.0000001	.0000003	.0000013	.0000043
27						.0000001	.0000003	.0000012
28							.0000001	.0000003
29								.0000001

n	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999954	.9999980	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000
2	.9999318	.9999683	.9999850	.9999930	.9999968	.9999985	.9999993	.9999997
3	.9995233	.9997564	.9998773	.9999391	.9999702	.9999856	.9999932	.9999965
4	.9977295	.9987642	.9993387	.9996519	.9998187	.9999001	.9999538	.9999774
5	.9919432	.9953341	.9973487	.9985209	.9991894	.9995634	.9997689	.9998797
6	.9778473	.9859973	.9915605	.9950147	.9971119	.9983583	.9990838	.9994978
7	.9466456	.9651604	.9777570	.9861033	.9914975	.9949022	.9970033	.9982720
8	.8929214	.9359551	.9500039	.9670075	.9787050	.9865469	.9916764	.9949570
9	.8117687	.8824855	.9019928	.9317995	.9530262	.9691669	.9799418	.9872339
10	.7046515	.7726993	.8294163	.8750755	.9106641	.9375758	.9573538	.9714990
11	.5795954	.6603571	.7333708	.7943430	.8455683	.8867871	.9188939	.9431905
12	.4491974	.5340137	.6165001	.6913671	.7574756	.8138598	.8604104	.8976803
13	.3267856	.4085028	.4919187	.5734876	.6501475	.7195841	.7803436	.8311038
14	.2236392	.2933310	.3705316	.4710742	.5516371	.6091308	.6810000	.7454058
15	.1418854	.1976220	.2637390	.3753187	.4123767	.4911927	.5686624	.6431102
16	.0845469	.1247897	.1758855	.2348106	.3024760	.3758754	.4523372	.5390288
17	.0471130	.0738294	.1095482	.1547978	.2093560	.2722007	.3415827	.4415034
18	.0245622	.0409281	.0643337	.0959650	.1365318	.1861760	.2442812	.3494832
19	.0119808	.0212877	.0354621	.0559259	.0838686	.1201611	.1651633	.2186009
20	.0054888	.0103648	.0183531	.0306381	.0484891	.0731079	.1054581	.1460965
21	.0023513	.0047405	.0089820	.0157815	.0263881	.0419301	.0635488	.0929306
22	.0009464	.0020361	.0040761	.0076458	.0135191	.0226514	.0361277	.0550715
23	.0003578	.0008219	.0017511	.0034854	.0065219	.0115345	.0193734	.0310304
24	.0001271	.0003120	.0007078	.0014957	.0029636	.0055366	.0096003	.0165068
25	.0000435	.0001114	.0002693	.0006045	.0012689	.0025055	.0046768	.0082894
26	.0000134	.0000375	.0000965	.0002302	.0005121	.0010652	.0021057	.0039899
27	.0000040	.0000119	.0000326	.0000826	.0001949	.0004304	.0008947	.0017590
28	.0000011	.0000035	.0000104	.0000280	.0000699	.0001634	.0003557	.0007433
29	.0000003	.0000010	.0000031	.0000089	.0000237	.0000586	.0001358	.0003066
30	.0000001	.0000003	.0000009	.0000027	.0000076	.0000198	.0000485	.0001178
31		.0000001	.0000002	.0000008	.0000023	.0000063	.0000164	.0000398
32			.0000001	.0000002	.0000006	.0000017	.0000052	.0000134
33				.0000001	.0000003	.0000005	.0000016	.0000043
34						.0000001	.0000004	.0000013
35							.0000001	.0000004
36								.0000001

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 66$$

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999985	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
4	.9999889	.9999947	.9999975	.9999988	.9999995	.9999998	.9999999	1.0000000
5	.9999384	.9999690	.9999846	.9999925	.9999964	.9999983	.9999992	.9999995
6	.9997256	.9998570	.9999256	.9999620	.9999809	.9999906	.9999954	.9999978
7	.9990228	.9994569	.9997039	.9998414	.9999166	.9999569	.9999788	.9999891
8	.9970010	.9985522	.9990008	.9994395	.9996915	.9998333	.9999116	.9999540
9	.9926721	.9951303	.9970029	.9983868	.9990133	.9994426	.9996918	.9998381
10	.9811583	.9880617	.9925116	.9959978	.9982861	.9993636	.9998529	.9999685
11	.9610781	.9739053	.9838742	.9889939	.9939780	.9957876	.9984183	.9994118
12	.9266631	.9485830	.9647275	.9763156	.9844298	.9899763	.9936796	.9980961
13	.8740849	.9078071	.9339652	.9537175	.9682510	.9786792	.9859010	.9939734
14	.8012030	.8482952	.8867034	.9178131	.9408014	.9585679	.9716138	.9869597
15	.7094160	.7691373	.8205277	.8634703	.8983567	.9259301	.9471776	.9631803
16	.6012577	.6737217	.7356777	.7910172	.8382566	.8774897	.9091185	.9340174
17	.4904645	.5647427	.6356447	.7012054	.7600100	.8112347	.8546154	.8903635
18	.3798829	.4531507	.5260257	.5984796	.6660105	.7277578	.7885950	.8339484
19	.2795403	.3464335	.4178613	.4997297	.5614930	.6333682	.6945122	.7734407
20	.1958413	.2517015	.3140853	.3828877	.4536439	.5249237	.5945378	.6805810
21	.1288504	.1734816	.2259024	.2852460	.3501240	.4187261	.4888639	.5807581
22	.0805205	.1132851	.1538106	.2020698	.2575046	.3190303	.3851060	.4838597
23	.0475684	.0700320	.0999703	.1359068	.1801241	.2316347	.2896451	.3888879
24	.0265554	.0409437	.0606796	.0866842	.1196600	.1599812	.2075981	.2611878
25	.0140060	.0226371	.0351067	.0523878	.0754133	.1049615	.1415541	.1853460
26	.0069783	.0118319	.0192164	.0299809	.0450495	.0653473	.0917084	.1247541
27	.0031843	.0059452	.0099485	.0162399	.0264919	.0385781	.0543888	.0797900
28	.0014601	.0028290	.0048702	.0083232	.0136590	.0215769	.0308884	.0484485
29	.0006131	.0012840	.0022540	.0040351	.0066948	.0114300	.0181787	.0279853
30	.0002432	.0005019	.0009861	.0018499	.0033233	.0057317	.0095189	.0153885
31	.0000911	.0001977	.0004077	.0008018	.0015081	.0027186	.0047145	.0078717
32	.0000328	.0000735	.0001593	.0003285	.0006471	.0012308	.0022110	.0038531
33	.0000109	.0000258	.0000588	.0001272	.0002684	.0005181	.0009808	.0017946
34	.0000034	.0000086	.0000205	.0000465	.0001006	.0002078	.0004113	.0007810
35	.0000010	.0000027	.0000067	.0000161	.0000364	.0000788	.0001630	.0003237
36	.0000001	.0000008	.0000021	.0000053	.0000124	.0000288	.0000610	.0001266
37	.0000001	.0000002	.0000006	.0000016	.0000040	.0000095	.0000216	.0000468
38		.0000001	.0000002	.0000005	.0000018	.0000030	.0000078	.0000163
39				.0000001	.0000003	.0000009	.0000023	.0000054
40					.0000001	.0000003	.0000007	.0000017
41						.0000001	.0000002	.0000005
42								.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999993	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999947	.9999974	.9999988	.9999994	.9999997	.9999999	1.0000000	1.0000000
8	.9999765	.9999882	.9999943	.9999972	.9999987	.9999994	.9999997	.9999999
9	.9999105	.9999532	.9999760	.9999879	.9999940	.9999971	.9999986	.9999994
10	.9997010	.9998369	.9999127	.9999542	.9999765	.9999881	.9999941	.9999978
11	.9991127	.9994953	.9997186	.9998463	.9999177	.9999568	.9999778	.9999898
12	.9976326	.9985994	.9991865	.9995350	.9997419	.9998590	.9999846	.9999605
13	.9943078	.9966843	.9979732	.9987398	.9992687	.9995844	.9997607	.9998740
14	.9874951	.9919582	.9949358	.9968771	.9981143	.9988852	.9993547	.9996344
15	.9747933	.9831113	.9889480	.9929106	.9955478	.9972688	.9983587	.9990897
16	.9531026	.9671678	.9777709	.9851789	.9903293	.9938156	.9961319	.9976383
17	.9190505	.9414533	.9585870	.9713077	.9805402	.9870818	.9916060	.9946684
18	.8697815	.9029844	.9280063	.9483641	.9636489	.9749413	.9830953	.9888398
19	.8015812	.8472656	.8836715	.9138317	.9366281	.9568834	.9688831	.9788785
20	.7212826	.7756001	.8230910	.8653066	.8965460	.9233240	.9443587	.9604750
21	.6360350	.6990360	.7464334	.7973120	.8412263	.8781519	.9084132	.9349281
22	.5535524	.6213553	.6660168	.7159978	.7700598	.8175060	.8580787	.8918743
23	.4797120	.5482220	.5864320	.6224389	.6845668	.7414768	.7988399	.8363500
24	.4221538	.4866820	.5218497	.5217621	.5885120	.6583315	.7117808	.7655364
25	.3860605	.4490686	.4768841	.4202987	.4874391	.5544394	.6194056	.6809535
26	.3648219	.4318527	.4654582	.3244159	.3877139	.4536428	.5204166	.5868806
27	.3554914	.4259627	.4693407	.2393659	.2953554	.3562915	.4205355	.4866897
28	.3491176	.4256763	.4787000	.1684909	.2149964	.2677630	.3259304	.3888688
29	.3414197	.4259942	.4832195	.1129617	.1492606	.1922478	.2416838	.2969386
30	.3315437	.4252378	.4811297	.0720328	.0966784	.1315994	.1711041	.2171458
31	.3136847	.4197629	.4698109	.0436384	.0620295	.0857548	.1154508	.1515488
32	.2864736	.4085051	.4464930	.0250204	.0370380	.0531246	.0741308	.1007880
33	.2511376	.3905989	.4086448	.0136790	.0209844	.0313605	.0482354	.0637188
34	.2114296	.3635203	.3542908	.0070656	.0112704	.0174375	.0268018	.0388813
35	.1706179	.3261760	.2850153	.0034550	.0057331	.0092805	.0143908	.0218818
36	.1323524	.2804840	.2068950	.0015981	.0027599	.0046159	.0074867	.0117893
37	.0999973	.2301948	.1303756	.0006787	.0012562	.0021850	.0036857	.0060899
38	.0730354	.1793740	.0701498	.0002685	.0005401	.0009781	.0017153	.0029168
39	.0518128	.1320556	.0301556	.0001124	.0002192	.0004132	.0007539	.0013389
40	.0356031	.0911090	.0120196	.0000413	.0000839	.0001646	.0003186	.0005748
41	.0238012	.0600028	.0044065	.0000143	.0000302	.0000610	.0001221	.0002336
42	.0154003	.0381009	.0015020	.0000046	.0000103	.0000219	.0000449	.0000894
43	.0096001	.0232002	.0005006	.0000014	.0000033	.0000072	.0000155	.0000308
44		.0136001	.0001002	.0000004	.0000010	.0000023	.0000050	.0000109
45				.0000001	.0000003	.0000007	.0000015	.0000034
46					.0000001	.0000002	.0000004	.0000010
47							.0000001	.0000003
48								.0000001

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 66

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	.99999997	.99999999	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	.99999987	.99999994	.99999997	.99999999	.99999999	1.00000000	1.00000000	1.00000000
11	.99999945	.99999973	.99999987	.99999994	.99999997	.99999999	1.00000000	1.00000000
12	.99997998	.99999898	.99999950	.99999976	.99999989	.99999995	.99999998	.99999999
13	.99993388	.99996619	.99998021	.99999011	.99999556	.99999979	.99999990	.99999996
14	.99977973	.99988900	.99994416	.99997697	.99998846	.99999224	.99999693	.99999863
15	.99944407	.99976846	.99988260	.99995062	.99997505	.99998745	.99999072	.99999537
16	.99855819	.99916900	.99952380	.99973338	.99986538	.99994210	.99996591	.99998191
17	.99667894	.99787890	.99879700	.99928998	.99969017	.99977886	.99990798	.99995363
18	.99279909	.99544444	.99718444	.99829984	.99899948	.99944197	.99967888	.99990199
19	.98543511	.99044480	.99388727	.99615865	.99776432	.99865877	.99941732	.99975274
20	.97285214	.98130976	.98756132	.99190049	.99486494	.99679970	.99805399	.99888452
21	.95143288	.96575332	.97637882	.98405477	.98944776	.99328183	.99578414	.99736656
22	.91933177	.94108807	.95708827	.97054308	.97965044	.98652334	.99119058	.99437388
23	.87377086	.90453608	.92935233	.94882977	.96373877	.97486886	.98297188	.98872449
24	.81304328	.85391044	.88811760	.91619138	.93852033	.95587868	.96908918	.97874968
25	.73751878	.78822808	.83252648	.87024488	.90155335	.92688778	.94687658	.96285208
26	.64934728	.70832208	.76199548	.80959568	.85073868	.88548288	.91387338	.93666818
27	.55272648	.61707658	.67809128	.73445058	.78517808	.83967608	.86778148	.89942758
28	.45325488	.51910868	.58431908	.64469798	.70571068	.78933488	.80708868	.84885038
29	.35697458	.42004698	.48578778	.55125338	.61514878	.73819658	.73811658	.78308248
30	.26930388	.32677328	.38838098	.45269738	.51805738	.68376298	.66517168	.70308378
31	.19416458	.24310418	.29776838	.35719108	.42009328	.62849648	.58999168	.61365908
32	.13352728	.17374388	.21837908	.27004868	.32699348	.57418038	.51180618	.51700618
33	.08743908	.11701668	.15287418	.19513998	.24369078	.52179058	.43569178	.41949378
34	.05444118	.07543968	.10196078	.13453578	.17346498	.47197868	.36407008	.32661888
35	.03218488	.04621768	.06468208	.08833038	.11769898	.42532998	.29909448	.24347118
36	.01804428	.02687078	.03897008	.05509168	.07598308	.38233828	.24265738	.17329278
37	.00958258	.01480668	.02226728	.03262098	.04659838	.34336408	.19116568	.12452058
38	.00481468	.00773348	.01205078	.01863068	.02709488	.30911768	.14650858	.08757398
39	.00230668	.00388088	.00611688	.00972188	.01492058	.27923828	.10925038	.05853858
40	.00104248	.00177388	.00298338	.00487968	.00776928	.25322008	.07882018	.03762018
41	.00043318	.00077918	.00136118	.00231168	.00381978	.00614588	.05462358	.02367878
42	.00017248	.00032238	.00058518	.00103208	.00177058	.00298648	.03609938	.01475218
43	.00006458	.00012548	.00023668	.00043368	.00077358	.00135958	.02270058	.00873188
44	.00002278	.00004588	.00008928	.00017128	.00031688	.00057038	.00909938	.00501578
45	.00000758	.00001578	.00003208	.00006348	.00012198	.00022798	.00041448	.00073488
46	.00000238	.00000508	.00001078	.00002208	.00004398	.00008518	.00016128	.00029668
47	.00000078	.00000158	.00000338	.00000718	.00001488	.00003098	.00005868	.00011198
48	.00000028	.00000048	.00000108	.00000218	.00000468	.00001008	.00001988	.00003948
49		.00000018	.00000028	.00000068	.00000138	.00000308	.00000638	.00001288
50			.00000008	.00000028	.00000048	.00000098	.00000188	.00000398
51					.00000018	.00000028	.00000058	.00000118
52						.00000008	.00000018	.00000038
53								.00000018

r	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	.99999998	.99999999
14	.99999992	.99999996
15	.99999970	.99999985
16	.99999896	.99999950
17	.99999670	.99999834
18	.99999038	.99999493
19	.99997363	.99998644
20	.99993311	.99996819
21	.99984163	.99990709
22	.99964910	.99978638
23	.99927074	.99953948
24	.99857530	.99904714
25	.99737816	.99822086
26	.99544584	.99679918
27	.99251832	.99458715
28	.98835108	.99123871
29	.98277448	.98660948
30	.97575377	.98054738
31	.96743445	.97307886
32	.95815217	.96430846
33	.94839782	.95469207
34	.93874200	.94510793
35	.92973769	.93611154
36	.92183803	.92939214
37	.91538403	.91945288
38	.91016617	.91339056
39	.90644826	.90876429
40	.90386887	.90548885
41	.90219771	.90330088

$$P(c;n,p) = \sum_{i=c}^{n} \binom{n}{i} p^i (1-p)^{n-i}$$

n = 66

c/p	.49	.50
42	.0117890	.0177914
43	.0059684	.0093286
44	.0028380	.0046052
45	.0013600	.0021362
46	.0005317	.0009891
47	.0002084	.0003781
48	.0000768	.0001436
49	.0000259	.0000507
50	.0000092	.0000166
51	.0000024	.0000050
52	.0000006	.0000014
53	.0000002	.0000004
54		.0000001

$$B(r;n,p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.49001430	.74146865	.87007710	.93511080	.96788277	.98413600	.99288660	.99685221
2	.11488784	.38840244	.60088366	.75399617	.85437888	.91648551	.95326884	.97441467
3	.00982251	.15061008	.32605100	.52488817	.65733431	.77302201	.85640112	.91175586
4	.00062464	.04544965	.14191463	.28001788	.43236350	.57657800	.69844879	.79370700
5	.00003771	.01100836	.03079981	.13010085	.24341466	.37513111	.50818005	.63894614
6	.00000598	.00288520	.01529028	.05140611	.11793166	.21311633	.34775233	.44950532
7	.00000051	.00063896	.00394235	.01752044	.04966655	.10628586	.19741933	.28780053
8	.00000004	.00009584	.00088839	.00588148	.01838850	.04660163	.09537899	.16527553
9		.00000977	.00017745	.00137117	.00603066	.01834113	.04341128	.08536443
10		.00000009	.00003306	.00031215	.00176766	.00648486	.01777118	.03981118
11		.00000001	.00000548	.00006677	.00046631	.00204666	.00685787	.01683666
12			.00000057	.00001289	.00011144	.00058886	.00228131	.00648044
13			.00000001	.00000228	.00002542	.00015433	.00067966	.00228038
14				.00000024	.00000248	.00003711	.00019133	.00073800
15				.00000001	.00000019	.00000882	.00004958	.00021977
16					.00000001	.00000017	.00001118	.00006044
17						.00000003	.00000256	.00001558
18						.00000001	.00000055	.00000396
19							.00000011	.00000088
20							.00000001	.00000018

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.99981979	.99991405	.99959934	.99980093	.99991113	.99995591	.99998013	.99999116
2	.98605567	.99274980	.99628867	.99800670	.99902036	.99951134	.99976606	.99988838
3	.94778837	.96928807	.98249850	.99022369	.99446461	.99711087	.99864753	.99932061
4	.86377000	.91877998	.94573288	.96706208	.98047737	.98867084	.99356610	.99640966
5	.73161655	.81838693	.87730048	.91659889	.94659033	.96667888	.97968882	.98760870
6	.56693308	.67181477	.75975608	.82966062	.89277960	.92154800	.94883119	.96743255
7	.39863008	.51041428	.61513088	.70733254	.78428937	.84564093	.89285701	.92717131
8	.25357777	.35413755	.45935576	.56199227	.65603004	.73795574	.80604098	.86034478
9	.14589839	.22839070	.31496611	.41331153	.51220872	.62664840	.69153777	.76448038
10	.07628253	.13090477	.19796656	.28029799	.37140091	.46617778	.55906028	.64567666
11	.03682099	.06791618	.11409770	.17511401	.24944493	.33370386	.42334709	.51398660
12	.01570206	.03271928	.06033834	.10086471	.15496606	.22819330	.29944805	.38400036
13	.00623376	.01446089	.02994005	.05356597	.08907880	.14706379	.19737707	.26846638
14	.00227772	.00588897	.01380088	.02689743	.04741103	.08785801	.12811349	.17535347
15	.00077664	.00223139	.00549455	.01194483	.02341110	.04187745	.07698433	.10694402
16	.00023385	.00076948	.00021068	.00503600	.01073580	.02071571	.03648874	.06090093
17	.00006668	.00023482	.00007581	.00019786	.00458804	.00953845	.01833103	.03524091
18	.00001804	.00007744	.00002498	.00007194	.00188210	.00411201	.00850059	.01812133
19	.00000466	.00002308	.00000773	.00002447	.00086757	.00176608	.00376901	.00750065
20	.00000111	.00000654	.00000223	.00000777	.00038344	.00072849	.00149283	.00297356
21	.00000028	.00000173	.00000060	.00000231	.00000761	.00028202	.00005701	.00113386
22		.00000043	.00000015	.00000064	.00000231	.00000727	.00002035	.00005137
23		.00000001	.00000004	.00000017	.00000066	.00000223	.00000682	.00001852
24			.00000001	.00000004	.00000018	.00000066	.00000215	.00000628
25				.00000001	.00000004	.00000018	.00000064	.00000200
26					.00000001	.00000005	.00000018	.00000060
27						.00000001	.00000005	.00000017
28							.00000001	.00000005
29								.00000001

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.99999663	.99999883	.99999993	.99999997	.99999999	.99999999	1.00000000	1.00000000
2	.99994443	.99997736	.99998877	.99999543	.99999774	.99999888	.99999995	.99999998
3	.99985930	.99997945	.99998978	.99999499	.99999758	.99999885	.99999946	.99999975
4	.99801348	.99959428	.99994410	.99997093	.99998513	.99999351	.99999829	.99999919
5	.99292269	.99595515	.99977268	.99987471	.99993218	.99996393	.99998114	.99999031
6	.97974566	.98767799	.99266603	.99571607	.99784882	.99886234	.99939413	.99975895
7	.95184799	.96891111	.98033797	.98780056	.99266765	.99566625	.99774817	.99885668
8	.90280545	.93301181	.95529770	.97082266	.98139914	.99033851	.99429016	.99577501
9	.82555647	.88731101	.91111149	.93884418	.95889927	.97299905	.98264088	.99090806
10	.72206614	.80886068	.84330058	.88642003	.91960861	.94455959	.96254486	.97827734
11	.60085550	.68057787	.75088159	.81041010	.85923864	.89796606	.92877396	.94998846
12	.47136651	.55741077	.65285171	.71194284	.77597751	.82990038	.87386616	.90840228
13	.34759556	.43123866	.55155092	.59706035	.67266864	.74033847	.79875589	.84761911
14	.24033441	.31406619	.45355951	.47555569	.55652433	.63334305	.70384490	.76614489
15	.15561135	.21484496	.36832196	.35839898	.43749814	.51713991	.59455001	.66690012
16	.09433944	.13767995	.19117397	.25409928	.33555551	.40198458	.47909920	.55616603
17	.05347466	.08300022	.12290003	.17080004	.25889112	.29850091	.36705569	.44859115
18	.02883958	.04688804	.07299245	.10773315	.19518407	.21251171	.26666605	.33488560
19	.01411262	.02480665	.04099477	.06393337	.13949381	.14633596	.18633596	.24041127
20	.00658868	.01253273	.02160036	.03569557	.09589188	.09834596	.11919000	.16349776
21	.00288437	.00619589	.01071139	.01873328	.06310293	.06487814	.07531479	.10520040
22	.00119852	.00295229	.00499868	.00927739	.04162216	.04084345	.04843435	.06640041
23	.00045778	.00130405	.00221928	.00431175	.02679915	.02532275	.03046053	.04106003
24	.00016653	.00054038	.00096060	.00189337	.01671109	.01568563	.01880282	.02499924
25	.00005669	.00021475	.00039526	.00078827	.00996248	.00931733	.01098552	.01526614
26	.00001863	.00008508	.00015293	.00030650	.00566710	.00531852	.00636971	.00897642
27	.00000586	.00003165	.00005447	.00011121	.00309615	.00295709	.00361738	.00516800
28	.00000176	.00001150	.00001946	.00003869	.00163962	.00158229	.00200820	.00290871
29	.00000051	.00000415	.00000665	.00001287	.00084334	.00082816	.00107871	.00160038
30	.00000014	.00000144	.00000219	.00000409	.00042109	.00041883	.00055486	.00087561
31		.00000048	.00000070	.00000127	.00020734	.00020693	.00027938	.00046570
32		.00000015	.00000021	.00000038	.00009810	.00009929	.00013678	.00024197
33		.00000004	.00000006	.00000011	.00004429	.00004584	.00006384	.00012064
34		.00000001	.00000001	.00000003	.00001918	.00002040	.00002907	.00005907
35				.00000001	.00000796	.00000879	.00001287	.00002820
36					.00000317	.00000365	.00000559	.00001307
37					.00000121	.00000145	.00000233	.00000589
38					.00000045	.00000056	.00000094	.00000257
39					.00000016	.00000021	.00000036	.00000110
40					.00000006	.00000007	.00000013	.00000046
41					.00000002	.00000002	.00000004	.00000018
42					.00000001	.00000001	.00000001	.00000007
43								.00000002

$$I_{n+m,n} = \sum_{k=0}^{n} \frac{n!}{k!} I^{k} (1-p)^{n+m-k}$$

n = 67

N	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999980	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999911	.9999959	.9999981	.9999991	.9999996	.9999998	.9999999	1.0000000
5	.9999613	.9999797	.9999881	.9999943	.9999975	.9999987	.9999994	.9999997
6	.9997818	.9998951	.9999416	.9999766	.9999854	.9999929	.9999966	.9999984
7	.9991991	.9995609	.9997638	.9998752	.9999353	.9999670	.9999835	.9999919
8	.9975063	.9985654	.9991905	.9995520	.9997568	.9998704	.9999322	.9999652
9	.9932744	.9959420	.9976007	.9986095	.9992100	.9995598	.9997595	.9998711
10	.9840368	.9898995	.9937458	.9962067	.9977458	.9986873	.9992507	.9995808
11	.9661481	.9775860	.9854763	.9907870	.9942773	.9965184	.9979250	.9987884
12	.9352669	.9551274	.9693271	.9798655	.9869360	.9917017	.9948386	.9968561
13	.8873293	.9184051	.9422710	.9600450	.9729428	.9820603	.9883676	.9926126
14	.8194840	.8637665	.8994641	.9274343	.9487810	.9646012	.9760676	.9841641
15	.7323838	.7897184	.8383951	.8785183	.9106657	.9357270	.9547528	.9688289
16	.6307971	.6977876	.7585872	.8113041	.8556856	.8930032	.9209160	.9433305
17	.5196628	.5928173	.6662536	.7266527	.7837015	.8311022	.8715113	.9043328
18	.4075205	.4821706	.5572068	.6272428	.6932703	.7520009	.8049213	.8492773
19	.3046259	.3741820	.4469437	.5301797	.5910030	.6595851	.7218179	.7773093
20	.2161660	.2763118	.3425264	.4378035	.4849201	.5665570	.6255295	.6899673
21	.1453901	.1936203	.2499278	.3525857	.3801448	.4805854	.5217054	.5913223
22	.0926030	.1289367	.1732754	.2753591	.2843642	.3489391	.4173081	.4874272
23	.0558084	.0812704	.1139962	.1544325	.2025644	.2578534	.3192380	.3851909
24	.0318087	.0485033	.0710991	.1004665	.1371547	.1814773	.2330326	.2913757
25	.0171434	.0273966	.0420114	.0613908	.0882442	.1214674	.1620278	.2098713
26	.0087352	.0144613	.0235968	.0362548	.0538547	.0772316	.1071585	.1441435
27	.0042078	.0074018	.0124508	.0200873	.0311643	.0466068	.0713370	.0941705
28	.0019161	.0035592	.0062413	.0105399	.0170908	.0266764	.0401694	.0584737
29	.0008249	.0016005	.0029604	.0052357	.0088790	.0144741	.0217327	.0344704
30	.0003357	.0006845	.0013284	.0024617	.0043682	.0074412	.0111974	.0192797
31	.0001291	.0002768	.0005639	.0010953	.0020345	.0036234	.0056020	.0102249
32	.0000469	.0001058	.0002261	.0004610	.0008960	.0016705	.0026871	.0051390
33	.0000161	.0000382	.0000854	.0001835	.0003740	.0007289	.0011622	.0024465
34	.0000052	.0000131	.0000306	.0000721	.0001475	.0003009	.0004879	.0011027
35	.0000016	.0000042	.0000105	.0000246	.0000550	.0001175	.0002000	.0004703
36	.0000005	.0000013	.0000033	.0000083	.0000194	.0000434	.0000926	.0001897
37	.0000001	.0000004	.0000010	.0000026	.0000065	.0000151	.0000338	.0000723
38		.0000001	.0000003	.0000008	.0000020	.0000050	.0000116	.0000260
39			.0000001	.0000002	.0000006	.0000015	.0000038	.0000089
40				.0000001	.0000002	.0000005	.0000012	.0000028
41						.0000001	.0000003	.0000009
42							.0000001	.0000002
43								.0000001

N	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999981	.9999992	.9999997	.9999998	.9999999	1.0000000	1.0000000	1.0000000
8	.9999935	.9999974	.9999990	.9999991	.9999996	.9999998	.9999999	.9999999
9	.9999823	.9999951	.9999984	.9999993	.9999998	.9999999	.9999999	.9999999
10	.9999701	.9999874	.9999949	.9999984	.9999994	.9999998	.9999999	.9999999
11	.9999060	.9999614	.9999868	.9999951	.9999984	.9999997	.9999999	.9999999
12	.9981244	.9998040	.9999327	.9999804	.9999969	.9999995	.9999999	.9999999
13	.9954066	.9992035	.9998326	.9999268	.9999898	.9999988	.9999999	.9999999
14	.9897433	.9984971	.9995639	.9997477	.9999415	.9999862	.9999982	.9999998
15	.9789842	.9961325	.9989438	.9991186	.9997974	.9999793	.9999435	.9999916
16	.9602602	.9929274	.9976829	.9979604	.9992558	.9999687	.9999842	.9999962
17	.9302877	.9850840	.9953014	.9953003	.9984596	.9999403	.9999711	.9999905
18	.8860001	.9715589	.9908389	.9906238	.9968942	.9999545	.9999485	.9999869
19	.8254075	.9459652	.9829583	.9826793	.9936236	.9999833	.9999059	.9999794
20	.7484411	.9000244	.9692942	.9692797	.9873764	.9999417	.9998892	.9999540
21	.6574600	.8284977	.9432636	.9421701	.9746946	.9998173	.9997327	.9998937
22	.5571673	.7245007	.8976626	.8952705	.9503910	.9995516	.9993055	.9997614
23	.4530809	.5932534	.8191261	.8161192	.9021986	.9988680	.9985295	.9994086
24	.3543479	.4513056	.6997535	.6960057	.8240521	.9974509	.9968162	.9985162
25	.2644711	.3248272	.5495229	.5456255	.7248361	.9945161	.9931435	.9962716
26	.1883306	.2304300	.3866927	.3826937	.6146121	.9890451	.9860535	.9911130
27	.1277505	.1583653	.2459467	.2429859	.5035200	.9793413	.9759891	.9826461
28	.0824404	.1127737	.1499243	.1490059	.3947292	.9613772	.9628264	.9677128
29	.0505600	.0780621	.0991377	.1009522	.2973828	.9209432	.9245396	.9334469
30	.0294428	.0435189	.0623612	.0667678	.2173900	.8546456	.8986300	.9490602
31	.0162682	.0250243	.0372777	.0438604	.1575874	.7631758	.8371556	.9177834
32	.0085233	.0136528	.0211570	.0317677	.1162848	.6655241	.7802452	.8810685
33	.0042318	.0070624	.0113917	.0177871	.0269242	.5395626	.6565043	.8785324
34	.0019900	.0034616	.0058142	.0094465	.0148646	.0226864	.0336249	.0484563
35	.0008850	.0016067	.0028117	.0047548	.0077819	.0123430	.0180971	.0284056
36	.0003730	.0007057	.0012871	.0022666	.0038600	.0063657	.0101793	.0158023
37	.0001485	.0002932	.0005574	.0010225	.0018125	.0031093	.0051681	.0083337
38	.0000559	.0001151	.0002383	.0004362	.0008051	.0014370	.0024837	.0041620
39	.0000198	.0000427	.0000982	.0001758	.0003379	.0006279	.0011288	.0019664
40	.0000066	.0000149	.0000322	.0000669	.0001339	.0002591	.0004847	.0008780
41	.0000021	.0000049	.0000111	.0000240	.0000501	.0001009	.0001964	.0003701
42	.0000006	.0000015	.0000036	.0000081	.0000176	.0000370	.0000750	.0001471
43	.0000002	.0000004	.0000011	.0000026	.0000059	.0000128	.0000270	.0000550
44		.0000001	.0000003	.0000008	.0000018	.0000042	.0000091	.0000194
45			.0000001	.0000002	.0000005	.0000013	.0000029	.0000064
46				.0000001	.0000001	.0000004	.0000009	.0000020
47						.0000001	.0000002	.0000006
48							.0000001	.0000002

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 67

%	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999962	.9999982	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000
12	.9999858	.9999930	.9999966	.9999984	.9999993	.9999997	.9999999	.9999999
13	.9999521	.9999754	.9999876	.9999939	.9999971	.9999986	.9999994	.9999997
14	.9998528	.9999215	.9999590	.9999791	.9999896	.9999949	.9999976	.9999989
15	.9995869	.9997709	.9998757	.9999341	.9999659	.9999827	.9999915	.9999959
16	.9989340	.9993856	.9996538	.9998093	.9998974	.9999460	.9999723	.9999861
17	.9974594	.9984788	.9991095	.9994905	.9997151	.9998444	.9999171	.9999568
18	.9943052	.9965089	.9978778	.9987390	.9992679	.9995048	.9997701	.9998757
19	.9884510	.9925465	.9952967	.9970990	.9982514	.9989704	.9994080	.9996670
20	.9778161	.9851466	.9902751	.9937756	.9961066	.9976207	.9985800	.9991727
21	.9600791	.9722861	.9811835	.9875080	.9918949	.9948613	.9968177	.9980758
22	.9324931	.9514432	.9658332	.9764806	.9841827	.9896003	.9933200	.9958099
23	.8934105	.9198848	.9416204	.9583839	.9709809	.9802298	.9868346	.9914364
24	.8379135	.8751732	.9058829	.9305522	.9498606	.9646124	.9755823	.9835577
25	.7684838	.8158146	.8564566	.8904613	.9181880	.9402221	.9572883	.9701704
26	.6854975	.7418825	.7933238	.8362813	.8736049	.9044859	.9293848	.9489484
27	.5923409	.6553996	.7141700	.7675143	.8146803	.8553104	.8894128	.9173030
28	.4940381	.5603015	.6246410	.6854670	.7414709	.7916993	.8355860	.8729454
29	.3964494	.4619242	.5281561	.5933730	.6559015	.7142889	.7673958	.8144310
30	.3052488	.3661203	.4302704	.4960619	.5617484	.6256081	.6860733	.7418391
31	.2249716	.2782451	.3367351	.3992142	.4641715	.5299304	.5947262	.6569381
32	.1583085	.2022951	.2525163	.3083916	.3688838	.4326382	.4980417	.5633995
33	.1063352	.1404220	.1810412	.2281169	.2811758	.3393977	.4015852	.4668633
34	.0679702	.0929020	.1238535	.1612103	.2050656	.2551622	.3106642	.3711649
35	.0413099	.0584909	.0807118	.1086456	.1427936	.1834061	.2304136	.2833017
36	.0238418	.0349964	.0500262	.0697047	.0947551	.1257733	.1631473	.2069814
37	.0130518	.0198735	.0294494	.0425080	.0598181	.0821330	.1101240	.1442940
38	.0067695	.0106983	.0164438	.0246043	.0358687	.0509876	.0707283	.0958123
39	.0033230	.0054530	.0086981	.0134987	.0203989	.0300413	.0431474	.0604815
40	.0015430	.0026286	.0043531	.0070102	.0109873	.0167734	.0244602	.0362308
41	.0006757	.0011969	.0020586	.0034415	.0055969	.0088618	.0136705	.0205610
42	.0002793	.0005141	.0009188	.0015950	.0026926	.0044235	.0070775	.0110357
43	.0001087	.0002081	.0003864	.0006969	.0012216	.0020831	.0034581	.0055927
44	.0000398	.0000792	.0001530	.0002866	.0005219	.0009240	.0015920	.0026716
45	.0000137	.0000283	.0000569	.0001104	.0002096	.0003854	.0006894	.0012008
46	.0000044	.0000095	.0000198	.0000402	.0000790	.0001509	.0002803	.0005069
47	.0000013	.0000030	.0000065	.0000136	.0000279	.0000553	.0001068	.0002006
48	.0000004	.0000009	.0000020	.0000043	.0000092	.0000190	.0000380	.0000742
49	.0000001	.0000002	.0000006	.0000013	.0000028	.0000061	.0000126	.0000256
50		.0000001	.0000001	.0000004	.0000008	.0000018	.0000039	.0000082
51				.0000001	.0000002	.0000005	.0000011	.0000025
52					.0000001	.0000001	.0000003	.0000007
53							.0000001	.0000002

%	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	.9999999	.9999999
14	.9999995	.9999998
15	.9999981	.9999991
16	.9999932	.9999968
17	.9999761	.9999892
18	.9999345	.9999663
19	.9998181	.9999029
20	.9995296	.9997392
21	.9988646	.9993464
22	.9974364	.9984673
23	.9945614	.9966293
24	.9891606	.9930331
25	.9796476	.9864400
26	.9639268	.9750999
27	.9395273	.9567814
28	.9039298	.9289643
29	.8550702	.8892356
30	.7919392	.8357840
31	.7151091	.7680912
32	.6276049	.6872966
33	.5317745	.5964027
34	.4347335	.5000000
35	.3414980	.4035973
36	.2570377	.3187034
37	.1849059	.2519088
38	.1268413	.1992160
39	.0827983	.1107744
40	.0513328	.0710357
41	.0301707	.0432186

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 67

x	.49	.50
42	.0167011	.0249081
43	.0088174	.0135600
44	.0043690	.0069669
45	.0020377	.0033707
46	.0008928	.0015317
47	.0003668	.0006536
48	.0001410	.0002608
49	.0000506	.0000971
50	.0000169	.0000337
51	.0000052	.0000108
52	.0000015	.0000032
53	.0000004	.0000009
54	.0000001	.0000002
55		.0000001

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 60

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.4951141	.7468528	.8739688	.9377063	.9694364	.9851169	.9928082	.9965520
2	.1463230	.3255465	.6089136	.7612076	.8600507	.9205178	.9559983	.9761636
3	.0309756	.1553676	.3343946	.5148449	.6671864	.7823857	.8631619	.9167712
4	.0048982	.0675322	.1474403	.2890123	.4430700	.5884130	.7094861	.8031511
5	.0006178	.0117705	.0535316	.1361049	.2528756	.3872179	.5214978	.6426010
6	.0000644	.0024207	.0163554	.0545542	.1242057	.2228372	.3403023	.4639017
7	.0000057	.0004268	.0042827	.0188758	.0530987	.1126672	.1972426	.3007415
8	.0000004	.0000650	.0009756	.0057088	.0199511	.0503026	.1018162	.1750778
9		.0000087	.0001957	.0015255	.0066484	.0200686	.0470486	.0917572
10		.0000010	.0000349	.0003635	.0019808	.0071690	.0195666	.0434555
11		.0000001	.0000056	.0000778	.0005314	.0023111	.0073622	.0186746
12			.0000008	.0000151	.0001291	.0006761	.0025187	.0073126
13			.0000001	.0000027	.0000286	.0001804	.0007870	.0026196
14				.0000004	.0000058	.0000441	.0002355	.0008616
15				.0000001	.0000011	.0000099	.0000595	.0002611
16					.0000002	.0000021	.0000145	.0000731
17						.0000004	.0000033	.0000190
18						.0000001	.0000007	.0000046
19							.0000001	.0000010
20								.0000002

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9983601	.9992264	.9996382	.9998322	.9999229	.9999649	.9999841	.9999929
2	.9873314	.9933818	.9965970	.9982761	.9991390	.9995758	.9997937	.9999010
3	.9507912	.9716268	.9840055	.9911677	.9952151	.9974540	.9986681	.9993146
4	.8712862	.9184479	.9497678	.9698425	.9823161	.9898549	.9942981	.9968571
5	.7435103	.8224304	.8810038	.9225877	.9509951	.9697527	.9817666	.9893506
6	.5817545	.6858732	.7722177	.8401066	.8910892	.9278654	.9534599	.9707053
7	.4137773	.5265543	.6310401	.7220007	.7970990	.8562674	.9010094	.9336146
8	.2666334	.3697652	.4764927	.5793710	.6727047	.7530330	.8190278	.8710399
9	.1556673	.2369300	.3308447	.4310602	.5309738	.6248903	.7087145	.7801575
10	.0825056	.1385336	.2108351	.2962322	.3897659	.4850207	.5789340	.6647513
11	.0398113	.0740293	.1233226	.1877569	.2653134	.3522492	.4438097	.5350568
12	.0175483	.0362389	.0662919	.1097623	.1672444	.2375979	.3180790	.4048008
13	.0070695	.0162939	.0328104	.0592430	.0976375	.1489432	.2126872	.2869501
14	.0026337	.0067476	.0149845	.0295674	.0520333	.0867739	.1325703	.1902522
15	.0009024	.0025806	.0063290	.0136697	.0265319	.0470144	.0770370	.1178931
16	.0002860	.0009138	.0024778	.0058654	.0131816	.0237135	.0417407	.0682755
17	.0000841	.0003003	.0009011	.0023402	.0063806	.0111487	.0211138	.0369692
18	.0000230	.0000918	.0003050	.0008698	.0029768	.0048920	.0099796	.0187290
19	.0000056	.0000261	.0000963	.0003016	.0008246	.0020062	.0044125	.0088852
20	.0000014	.0000070	.0000284	.0000978	.0002917	.0007699	.0018871	.0039509
21	.0000003	.0000017	.0000078	.0000297	.0000967	.0002769	.0007093	.0016482
22	.0000001	.0000004	.0000020	.0000084	.0000300	.0000934	.0002585	.0006457
23		.0000001	.0000005	.0000023	.0000088	.0000296	.0000885	.0002378
24			.0000001	.0000006	.0000024	.0000088	.0000285	.0000824
25				.0000001	.0000006	.0000025	.0000086	.0000269
26					.0000002	.0000007	.0000025	.0000083
27						.0000002	.0000007	.0000024
28							.0000002	.0000007
29								.0000002

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9969969	.9989986	.9995294	.9998997	.9999999	1.0000000	1.0000000	1.0000000
2	.9999531	.9999780	.9999899	.9999954	.9999979	.9999991	.9999996	.9999998
3	.9996528	.9998268	.9999149	.9999588	.9999803	.9999907	.9999957	.9999980
4	.9982994	.9990961	.9995278	.9997574	.9998774	.9999391	.9999702	.9999856
5	.9947952	.9964899	.9980525	.9989395	.9994330	.9997021	.9998463	.9999220
6	.9819864	.9891672	.9936229	.9963222	.9979206	.9988469	.9993725	.9996647
7	.9565905	.9722891	.9837130	.9894517	.9936996	.9963139	.9978864	.9988118
8	.9105194	.9394739	.9600465	.9742384	.9837613	.9899861	.9939550	.9964260
9	.8385679	.8845484	.9195057	.9452382	.9636174	.9763773	.9850008	.9906813
10	.7403210	.8041697	.8561085	.8969044	.9279195	.9507881	.9671698	.9785872
11	.6215961	.7000695	.7683700	.8256122	.8719325	.9082050	.9357457	.9560539
12	.4933784	.5795809	.6598539	.7316360	.7934604	.8448763	.8862535	.9185344
13	.3686365	.4539496	.5389455	.6200393	.6943770	.7600321	.8160326	.8622551
14	.2585769	.3351537	.4167740	.4998582	.5809183	.6569473	.7256783	.7856971
15	.1700177	.2327078	.3041910	.3811232	.4624330	.5427232	.6196503	.6907192
16	.1047187	.1517505	.2091208	.2755917	.3490470	.4267418	.5056359	.5827442
17	.0604156	.0988038	.1352508	.1876188	.2492064	.3183811	.3928245	.4697967
18	.0326595	.0533577	.0822489	.1203453	.1680255	.2248933	.2897515	.3606957
19	.0165321	.0267744	.0470233	.0726933	.1068829	.1501830	.2025188	.2630791
20	.0078702	.0145736	.0252792	.0413433	.0641116	.0947300	.1339490	.1819572
21	.0035135	.0069363	.0127830	.0221414	.0362561	.0564106	.0837684	.1191945
22	.0014739	.0031043	.0060831	.0111689	.0193312	.0317065	.0495078	.0738921
23	.0005815	.0013073	.0027256	.0053086	.0097197	.0168207	.0276449	.0433292
24	.0002159	.0005184	.0011505	.0023784	.0046098	.0084236	.0145840	.0240263
25	.0000755	.0001936	.0004577	.0010049	.0020629	.0039828	.0072690	.0125970
26	.0000249	.0000682	.0001717	.0004006	.0008713	.0017784	.0034834	.0062447
27	.0000077	.0000227	.0000608	.0001507	.0003475	.0007500	.0015237	.0029271
28	.0000023	.0000071	.0000203	.0000535	.0001309	.0002989	.0006410	.0012974
29	.0000006	.0000021	.0000064	.0000180	.0000466	.0001125	.0002549	.0005438
30	.0000002	.0000006	.0000019	.0000057	.0000157	.0000401	.0000958	.0002156
31		.0000002	.0000005	.0000017	.0000050	.0000135	.0000341	.0000808
32			.0000001	.0000005	.0000015	.0000043	.0000114	.0000287
33				.0000001	.0000004	.0000013	.0000036	.0000096
34					.0000001	.0000004	.0000011	.0000030
35						.0000001	.0000003	.0000009
36							.0000001	.0000003
37								.0000001

$$P(r;n,p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 60

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999932	.9999968	.9999985	.9999993	.9999997	.9999999	.9999999	1.0000000
5	.9999611	.9999809	.9999908	.9999956	.9999980	.9999991	.9999996	.9999998
6	.9998241	.9999094	.9999541	.9999772	.9999889	.9999947	.9999975	.9999988
7	.9991448	.9996455	.9998118	.9999019	.9999498	.9999748	.9999876	.9999940
8	.9979295	.9988242	.9993454	.9996425	.9998085	.9998994	.9999481	.9999738
9	.9943353	.9966241	.9980300	.9988734	.9993685	.9996530	.9998131	.9999012
10	.9863387	.9914706	.9947826	.9968795	.9981704	.9989490	.9994045	.9996737
11	.9706178	.9807675	.9877090	.9923045	.9958832	.9971690	.9983540	.9990420
12	.9439872	.9609562	.9739064	.9829235	.9890650	.9931467	.9957954	.9974744
13	.8992387	.9279652	.9496572	.9655947	.9770009	.9849583	.9903736	.9939705
14	.8364203	.8779749	.9110220	.9365653	.9557743	.9698413	.9798806	.9866676
15	.7541582	.8089713	.8548837	.8922148	.9217135	.9443092	.9613604	.9737362
16	.6554437	.7216912	.7001353	.8301240	.8716298	.9051202	.9314060	.9514900
17	.5464464	.6201101	.6085557	.7501391	.8030669	.8493725	.8868270	.9168120
18	.4353119	.5109387	.5049475	.6549936	.7192054	.7762913	.8255642	.8668950
19	.3303515	.4082590	.4063717	.5501574	.6212206	.6975498	.7475000	.8003390
20	.2382810	.3017729	.3203924	.4438688	.5159162	.5874654	.6553789	.7179167
21	.1630901	.2152733	.2749295	.3406467	.4105296	.4823769	.5538909	.6228887
22	.1058018	.1458064	.1939715	.2497626	.3121406	.3794330	.4496713	.5206736
23	.0650056	.0936636	.1300016	.1742919	.2262863	.2851791	.3496397	.4179119
24	.0378081	.0570227	.0836813	.1155770	.1561519	.2043901	.2597563	.3211951
25	.0208097	.0328843	.0498651	.0727640	.1024398	.1394704	.1840393	.2358567
26	.0108373	.0179576	.0285030	.0434609	.0638276	.0905023	.1241680	.1651764
27	.0053397	.0092840	.0154360	.0246142	.0377445	.0557943	.0796816	.1101673
28	.0024870	.0045435	.0079179	.0132132	.0211721	.0326855	.0485914	.0698992
29	.0010977	.0021046	.0038462	.0067209	.0113604	.0181347	.0281381	.0421515
30	.0004580	.0009227	.0017691	.0032305	.0056763	.0095511	.0154634	.0241408
31	.0001808	.0003828	.0007703	.0014779	.0027113	.0047687	.0080606	.0131224
32	.0000675	.0001503	.0003175	.0006386	.0012267	.0022563	.0039037	.0067665
33	.0000238	.0000558	.0001338	.0002612	.0005256	.0010114	.0018659	.0033081
34	.0000080	.0000196	.0000457	.0001011	.0002132	.0004293	.0008279	.0015327
35	.0000025	.0000065	.0000160	.0000370	.0000810	.0001725	.0003478	.0006727
36	.0000008	.0000020	.0000053	.0000128	.0000297	.0000656	.0001383	.0002795
37	.0000002	.0000006	.0000016	.0000042	.0000102	.0000236	.0000520	.0001099
38	.0000001	.0000002	.0000005	.0000013	.0000032	.0000080	.0000185	.0000409
39			.0000001	.0000004	.0000010	.0000026	.0000062	.0000144
40				.0000001	.0000003	.0000008	.0000020	.0000048
41					.0000001	.0000002	.0000006	.0000015
42						.0000001	.0000002	.0000004
43								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999971	.9999987	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000
8	.9999870	.9999937	.9999970	.9999985	.9999993	.9999997	.9999999	.9999999
9	.9999488	.9999740	.9999871	.9999937	.9999970	.9999986	.9999993	.9999997
10	.9998236	.9999066	.9999515	.9999753	.9999877	.9999940	.9999971	.9999987
11	.9994567	.9997015	.9998385	.9999144	.9999555	.9999774	.9999887	.9999945
12	.9985146	.9991445	.9995178	.9997336	.9998560	.9999239	.9999605	.9999800
13	.9963035	.9977817	.9986966	.9992506	.9995781	.9997676	.9998747	.9999339
14	.9916122	.9947573	.9967930	.9980802	.9988753	.9993553	.9996384	.9998016
15	.9825347	.9886364	.9927658	.9954939	.9972537	.9983625	.9990448	.9994551
16	.9664391	.9772651	.9849592	.9902565	.9938252	.9961720	.9976787	.9986214
17	.9401786	.9579148	.9710349	.9804979	.9871552	.9917247	.9947856	.9967868
18	.9006150	.9273918	.9481008	.9637073	.9751728	.9833871	.9891275	.9930416
19	.8454030	.8828406	.9131115	.9369473	.9552340	.9689083	.9788782	.9859672
20	.7730400	.8224443	.8633316	.8973355	.9244178	.9455555	.9616338	.9735562
21	.6874038	.7462168	.7991243	.8427455	.8800768	.9104886	.9346223	.9532847
22	.5902639	.6564597	.7176229	.7725584	.8205533	.8613626	.8951488	.9223949
23	.4879654	.5576775	.6250102	.6882141	.7458698	.7970378	.8412331	.8784004
24	.3871938	.4559018	.5252901	.5933268	.6581463	.7181880	.7728917	.8197410
25	.2941304	.3575958	.4246030	.4932504	.5615460	.6275744	.6896468	.7464167
26	.2134570	.2684551	.3291827	.3941748	.4616950	.5298886	.5966509	.6603829
27	.1477619	.1925273	.2442078	.3020050	.3647092	.4307480	.4983192	.5655851
28	.0973931	.1316748	.1730322	.2213580	.2761048	.3362856	.4005248	.4671541
29	.0610807	.0857720	.1169130	.1549316	.1999070	.2515082	.3106715	.3711252
30	.0364115	.0531556	.0752329	.1033938	.1381314	.1798387	.2282347	.2820228
31	.0206158	.0313125	.0460562	.0657068	.0910544	.1235343	.1611306	.2062941
32	.0110791	.0175191	.0267993	.0397210	.0571268	.0779317	.1085402	.1437345
33	.0056480	.0093031	.0148095	.0230201	.0340876	.0494380	.0696633	.0955468
34	.0027898	.0046859	.0077366	.0124491	.0193266	.0299094	.0428479	.0604868
35	.0012502	.0022374	.0038627	.0064438	.0104025	.0162735	.0247019	.0354859
36	.0005422	.0010121	.0018207	.0031624	.0053111	.0086370	.0136182	.0200436
37	.0002226	.0004334	.0008128	.0014704	.0025701	.0044467	.0071224	.0113811
38	.0000864	.0001756	.0003434	.0006472	.0011778	.0020724	.0035306	.0058307
39	.0000317	.0000673	.0001372	.0002695	.0005108	.0009353	.0016578	.0028447
40	.0000110	.0000244	.0000518	.0001061	.0002094	.0003992	.0007359	.0013134
41	.0000036	.0000083	.0000185	.0000394	.0000811	.0001617	.0003088	.0005732
42	.0000011	.0000027	.0000062	.0000138	.0000296	.0000615	.0001224	.0002363
43	.0000003	.0000008	.0000020	.0000046	.0000102	.0000220	.0000457	.0000919
44	.0000001	.0000002	.0000006	.0000014	.0000033	.0000074	.0000165	.0000336
45		.0000001	.0000002	.0000004	.0000010	.0000024	.0000058	.0000116
46				.0000001	.0000003	.0000007	.0000017	.0000038
47					.0000001	.0000002	.0000005	.0000011
48						.0000001	.0000001	.0000003
49								.0000001

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 60$$

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999974	.9999988	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
12	.9999901	.9999952	.9999977	.9999989	.9999995	.9999998	.9999999	1.0000000
13	.9999659	.9999838	.9999915	.9999959	.9999981	.9999991	.9999996	.9999998
14	.9998935	.9999441	.9999713	.9999856	.9999930	.9999966	.9999984	.9999993
15	.9996960	.9998341	.9999116	.9999539	.9999765	.9999883	.9999943	.9999973
16	.9992017	.9995474	.9997492	.9998642	.9999282	.9999639	.9999813	.9999900
17	.9980640	.9988597	.9993435	.9996308	.9997971	.9998912	.9999430	.9999709
18	.9956456	.9973363	.9984074	.9990697	.9994692	.9997042	.9998392	.9999147
19	.9900840	.9942107	.9964066	.9976206	.9987068	.9992530	.9995782	.9997676
20	.9821764	.9882545	.9934344	.9952379	.9970747	.9982416	.9989692	.9994103
21	.9673513	.9776875	.9850929	.9902662	.9937902	.9961306	.9976460	.9986033
22	.9438034	.9601972	.9724338	.9813375	.9876538	.9920203	.9949639	.9968975
23	.9088444	.9331393	.9530319	.9663500	.9769261	.9845403	.9898027	.9935356
24	.8602573	.8939520	.9212500	.9447901	.9593727	.9717964	.9808708	.9873291
25	.7969500	.8407452	.8777099	.9081013	.9324443	.9514416	.9658864	.9765870
26	.7195859	.7729340	.8199009	.8601205	.8936673	.9209345	.9424994	.9591352
27	.6305381	.6917224	.7477761	.7977710	.8411963	.8779511	.9081996	.9324928
28	.5343423	.6002427	.6631385	.7215670	.7744151	.8209604	.8608846	.8942370
29	.4364608	.5038427	.5696446	.6338944	.6944078	.7498977	.7994452	.8425287
30	.3426410	.4063580	.4723613	.5388700	.6041173	.6664013	.7248949	.7766932
31	.2578852	.3151527	.3769553	.4418272	.5080811	.5739367	.6376594	.6976906
32	.1856075	.2341941	.2887304	.3483536	.4117633	.4773848	.5434834	.6082980
33	.1276770	.1664087	.2117755	.2634344	.3206444	.3822855	.4469197	.5188886
34	.0836998	.1128604	.1484448	.1906466	.2393153	.2939105	.3535031	.4168121
35	.0522406	.0729435	.0992627	.1317741	.1708160	.2164139	.2602254	.3255176
36	.0310037	.0448641	.0632210	.0868387	.1163724	.1522844	.1947625	.2436536
37	.0174757	.0262251	.0382974	.0544745	.0755398	.1022080	.1350449	.1743840
38	.0093453	.0145519	.0220362	.0324819	.0466459	.0653148	.0892443	.1190835
39	.0047361	.0076560	.0120287	.0183051	.0273603	.0396766	.0561104	.0774403
40	.0022722	.0038148	.0062214	.0098651	.0152225	.0228766	.0335082	.0478711
41	.0010309	.0017982	.0030452	.0050117	.0080226	.0125011	.0189767	.0280025
42	.0004418	.0008009	.0014089	.0024075	.0039996	.0064651	.0101762	.0156079
43	.0001786	.0003366	.0006153	.0010921	.0018836	.0031597	.0051592	.0082054
44	.0000681	.0001334	.0002534	.0004671	.0008367	.0014572	.0024691	.0040737
45	.0000244	.0000497	.0000982	.0001882	.0003501	.0006331	.0011137	.0019960
46	.0000082	.0000174	.0000358	.0000713	.0001377	.0002587	.0004726	.0008400
47	.0000026	.0000057	.0000122	.0000253	.0000509	.0000993	.0001883	.0003476
48	.0000008	.0000018	.0000039	.0000084	.0000176	.0000357	.0000704	.0001349
49	.0000002	.0000005	.0000012	.0000026	.0000057	.0000120	.0000246	.0000490
50	.0000001	.0000001	.0000003	.0000008	.0000017	.0000038	.0000080	.0000166
51			.0000001	.0000002	.0000005	.0000011	.0000024	.0000052
52				.0000001	.0000001	.0000003	.0000007	.0000015
53						.0000001	.0000002	.0000004
54								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	.9999999	1.0000000
14	.9999997	.9999999
15	.9999988	.9999994
16	.9999956	.9999979
17	.9999855	.9999930
18	.9999558	.9999777
19	.9998751	.9999346
20	.9996710	.9998210
21	.9991904	.9995428
22	.9981352	.9989069
23	.9959692	.9975483
24	.9918070	.9948312
25	.9843040	.9897365
26	.9716300	.9807700
27	.9514832	.9659407
28	.9213787	.9428728
29	.8790114	.9090950
30	.8228734	.8625048
31	.7527558	.8019376
32	.6701760	.7276939
33	.5784374	.6418496
34	.4822836	.5482013
35	.3871834	.4517987
36	.2984232	.3581504
37	.2202505	.2723061
38	.1552929	.1980624
39	.1043793	.1374952
40	.0667509	.0909050

$$P(c,n,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

$n = 60$

x	.49	.50
41	.0405401	.0571272
42	.0233420	.0340593
43	.0127197	.0192300
44	.0065487	.0102635
45	.0031800	.0051688
46	.0014538	.0024517
47	.0006246	.0010931
48	.0002516	.0004572
49	.0000949	.0001790
50	.0000334	.0000654
51	.0000109	.0000223
52	.0000033	.0000070
53	.0000009	.0000021
54	.0000002	.0000005
55	.0000001	.0000001

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 69$$

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.5001630	.7519157	.8777490	.9401981	.9709645	.9860099	.9933116	.9968878
2	.1517917	.4035726	.6168653	.7682675	.8655300	.9243937	.9588750	.9777944
3	.0381491	.1661752	.3425331	.5246994	.7160297	.8496791	.9215226	.9611407
4	.0051590	.0496090	.1530460	.2980456	.4550358	.6004514	.7808448	.8788487
5	.0006606	.0124857	.0563489	.1432212	.2624253	.3992896	.5346570	.6554450
6	.0000699	.0026155	.0174707	.0578163	.1306392	.2387001	.3530604	.4781977
7	.0000053	.0004669	.0046449	.0203030	.0566541	.1192774	.2072694	.3137943
8	.0000005	.0000722	.0010743	.0069355	.0216065	.0541197	.1084960	.1851309
9		.0000098	.0002191	.0016929	.0073135	.0218874	.0508823	.0984829
10		.0000012	.0000398	.0004100	.0022142	.0079430	.0214903	.0473196
11		.0000001	.0000065	.0000893	.0006038	.0026025	.0082166	.0206570
12			.0000010	.0000176	.0001493	.0007748	.0028577	.0088115
13			.0000001	.0000032	.0000336	.0002101	.0009082	.0029950
14				.0000005	.0000069	.0000523	.0002648	.0010083
15				.0000001	.0000013	.0000120	.0000711	.0003098
16					.0000002	.0000025	.0000176	.0000888
17						.0000005	.0000041	.0000233
18						.0000001	.0000009	.0000057
19							.0000002	.0000013
20								.0000003
21								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9985077	.9993038	.9996780	.9998533	.9999309	.9999698	.9999865	.9999940
2	.9883240	.9956663	.9985316	.9964620	.9992409	.9996302	.9998223	.9999157
3	.9540796	.9738023	.9853906	.9920307	.9957252	.9977510	.9988370	.9994004
4	.8784417	.9237658	.9535339	.9724015	.9839930	.9909188	.9949536	.9978503
5	.7550102	.8380321	.8865678	.9283583	.9550668	.9725670	.9836463	.9904676
6	.5963185	.6995200	.7841841	.8500043	.8988770	.9337297	.9577059	.9736725
7	.4280958	.5404660	.6465697	.7361805	.8093177	.8662911	.9088770	.9395491
8	.2749754	.3854441	.4634989	.5964875	.6888759	.7674858	.8313351	.8810518
9	.1656542	.2502135	.3460660	.4488575	.5493988	.6438303	.7252615	.7944987
10	.0890803	.1483732	.2340369	.3184115	.4001403	.5052904	.5984011	.6832163
11	.0436536	.0884797	.1529409	.2007739	.2814940	.3709492	.4640784	.5588079
12	.0195516	.0490179	.0935653	.1191216	.1799932	.2536491	.3369386	.4356418
13	.0080307	.0103884	.0536934	.0653053	.1066864	.1613549	.2288460	.3058063
14	.0030347	.0077038	.0169453	.0331285	.0586578	.0958776	.1445078	.2057238
15	.0010588	.0049973	.0078811	.0155775	.0299511	.0525808	.0853585	.1294706
16	.0003415	.0010805	.0029015	.0068019	.0142229	.0269757	.0470337	.0761143
17	.0001028	.0003618	.0010746	.0027632	.0062910	.0129078	.0248079	.0419782
18	.0000285	.0001186	.0003706	.0010462	.0025959	.0057600	.0116497	.0216475
19	.0000074	.0000327	.0001192	.0003698	.0010008	.0024102	.0052475	.0104608
20	.0000018	.0000085	.0000359	.0001322	.0003810	.0009430	.0022149	.0047404
21	.0000004	.0000023	.0000101	.0000378	.0001280	.0003459	.0008770	.0020167
22	.0000001	.0000005	.0000027	.0000110	.0000397	.0001191	.0003261	.0008061
23		.0000001	.0000007	.0000030	.0000115	.0000385	.0001140	.0003030
24			.0000002	.0000008	.0000032	.0000117	.0000375	.0001073
25				.0000002	.0000008	.0000034	.0000116	.0000357
26					.0000002	.0000009	.0000034	.0000118
27						.0000002	.0000009	.0000033
28						.0000001	.0000002	.0000009
29							.0000001	.0000002
30								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999974	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
2	.9999609	.9999818	.9999917	.9999962	.9999983	.9999993	.9999997	.9999999
3	.9997038	.9998540	.9999291	.9999661	.9999840	.9999926	.9999966	.9999985
4	.9985295	.9992276	.9996013	.9997977	.9998990	.9999504	.9999750	.9999886
5	.9945609	.9969591	.9983328	.9991031	.9995263	.9997543	.9998748	.9999373
6	.9839939	.9904853	.9944645	.9968457	.9982382	.9990350	.9994814	.9997365
7	.9609078	.9783272	.9847859	.9908258	.9954860	.9960711	.9980289	.9990165
8	.9183515	.9543806	.9643531	.9772811	.9888483	.9913782	.9948598	.9969986
9	.8507997	.8944350	.9270284	.9510302	.9778477	.9795712	.9896602	.9930600
10	.7570830	.8186379	.8681540	.9065710	.9554161	.9579709	.9814897	.9884897
11	.6417793	.7288075	.7850403	.8398706	.8836897	.9175731	.9489732	.9714419
12	.5151754	.6012689	.6804719	.7504312	.8099395	.8588086	.8976367	.9373391
13	.3898426	.4765632	.5619181	.6483586	.7151845	.7786978	.8321834	.8757429
14	.2772870	.3565370	.4399866	.5338044	.6047446	.6796259	.7464598	.8046711
15	.1850728	.2511481	.3255817	.4054302	.4873149	.5678525	.6440368	.7135139
16	.1158195	.1663238	.2271842	.2968380	.3728501	.4522577	.5318592	.6086588
17	.0679473	.1034798	.1492861	.2058133	.2701729	.3423204	.4187711	.4969041
18	.0373701	.0604724	.0923193	.1338000	.1850735	.2454606	.3134583	.3866000
19	.0192901	.0331944	.0537162	.0822237	.1197228	.1666193	.2288824	.2885071
20	.0093461	.0171297	.0294105	.0476133	.0730938	.1069297	.1497801	.2014864
21	.0042542	.0083110	.0151572	.0259018	.0421057	.0648409	.0953100	.1348578
22	.0018207	.0037941	.0073561	.0133634	.0228854	.0371414	.0573078	.0847646
23	.0007332	.0016308	.0033635	.0064807	.0117381	.0200956	.0328734	.0506465
24	.0002780	.0006604	.0014498	.0029645	.0056828	.0102710	.0175880	.0288590
25	.0000993	.0002531	.0005894	.0012796	.0025977	.0049598	.0089515	.0153400
26	.0000335	.0000908	.0002261	.0005314	.0011216	.0022633	.0043079	.0077698
27	.0000106	.0000308	.0000819	.0002007	.0004575	.0009765	.0019606	.0037835
28	.0000032	.0000099	.0000280	.0000730	.0001764	.0003981	.0008440	.0016885
29	.0000009	.0000030	.0000091	.0000251	.0000643	.0001535	.0003437	.0007247
30	.0000002	.0000009	.0000028	.0000081	.0000221	.0000560	.0001324	.0002943
31	.0000001	.0000002	.0000008	.0000025	.0000072	.0000193	.0000483	.0001138
32		.0000001	.0000002	.0000007	.0000022	.0000063	.0000167	.0000418
33			.0000001	.0000002	.0000006	.0000019	.0000054	.0000148
34				.0000001	.0000002	.0000006	.0000017	.0000046
35						.0000002	.0000005	.0000014
36							.0000001	.0000004
37								.0000001

$$I_{n,m}(x) = \sum_{k=0}^{\infty} \frac{(-1)^k x^{n+m+2k}}{k!\,(n+k)!\,(m+k)!}$$

x	.05	.06	.07	.08	.09	.10	.11	.12
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999983	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999947	.9999975	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000
5	.9999891	.9999951	.9999929	.9999967	.9999985	.9999993	.9999997	.9999999
6	.9999784	.9999940	.9999980	.9999988	.9999995	.9999998	.9999999	.9999999
7	.9999646	.9999911	.9999968	.9999990	.9999997	.9999999	.9999999	.9999999
8	.9999511	.9999883	.9999953	.9999986	.9999996	.9999999	.9999999	.9999999
9	.9999416	.9999863	.9999941	.9999981	.9999995	.9999999	.9999999	.9999999
10	.9999391	.9999858	.9999937	.9999980	.9999995	.9999999	.9999999	.9999999
11	.9999480	.9999951	.9999986	.9999996	.9999999	.9999999	.9999999	.9999999
12	.9999848	.9999981	.9999996	.9999999	.9999999	.9999999	.9999999	.9999999
13	.9999810	.9999973	.9999995	.9999999	.9999999	.9999999	.9999999	.9999999
14	.9999249	.9999894	.9999983	.9999997	.9999999	.9999999	.9999999	.9999999
15	.9998423	.9999760	.9999949	.9999992	.9999999	.9999999	.9999999	.9999999
16	.9997293	.9999501	.9999882	.9999979	.9999997	.9999999	.9999999	.9999999
17	.9995841	.9999116	.9999764	.9999949	.9999993	.9999999	.9999999	.9999999
18	.9994048	.9998580	.9999580	.9999896	.9999987	.9999998	.9999999	.9999999
19	.9991955	.9997771	.9999284	.9999797	.9999971	.9999996	.9999999	.9999999
20	.9989600	.9996731	.9998777	.9999618	.9999938	.9999992	.9999999	.9999999
21	.9987018	.9995427	.9997987	.9999331	.9999882	.9999983	.9999998	.9999999
22	.9984243	.9993824	.9996882	.9998917	.9999797	.9999968	.9999996	.9999999
23	.9981307	.9991886	.9995424	.9998350	.9999668	.9999944	.9999992	.9999999
24	.9978241	.9989577	.9993566	.9997605	.9999477	.9999905	.9999984	.9999998
25	.9975078	.9986866	.9991270	.9996665	.9999208	.9999846	.9999972	.9999996
26	.9971844	.9983727	.9988511	.9995520	.9998847	.9999760	.9999952	.9999992
27	.9968568	.9980141	.9985268	.9994167	.9998387	.9999641	.9999923	.9999985
28	.9965274	.9976095	.9981525	.9992607	.9997827	.9999484	.9999882	.9999973
29	.9961984	.9971582	.9977272	.9990847	.9997170	.9999285	.9999824	.9999955
30	.9958717	.9966601	.9972504	.9988896	.9996424	.9999041	.9999744	.9999927
31	.9955488	.9961158	.9967222	.9986767	.9995599	.9998751	.9999641	.9999888
32	.9952310	.9955264	.9961432	.9984476	.9994707	.9998414	.9999511	.9999835
33	.9949193	.9948939	.9955145	.9982040	.9993762	.9998032	.9999350	.9999766
34	.9946147	.9942195	.9948374	.9979478	.9992780	.9997609	.9999161	.9999680
35	.9943180	.9935040	.9941134	.9976811	.9991779	.9997151	.9998947	.9999579
36	.9940299	.9927488	.9933442	.9974062	.9990779	.9996665	.9998713	.9999464
37	.9937509	.9919551	.9925315	.9971256	.9989801	.9996159	.9998464	.9999337
38	.9934813	.9911245	.9916767	.9968423	.9988870	.9995643	.9998205	.9999201
39	.9932211	.9902589	.9907824	.9965597	.9988013	.9995126	.9997941	.9999060
40	.9929703	.9893603	.9898511	.9962817	.9987260	.9994621	.9997677	.9998915
41	.9927286	.9884312	.9888866	.9960126	.9986643	.9994140	.9997417	.9998768
42	.9924957	.9874744	.9878918	.9957571	.9986198	.9993695	.9997165	.9998621
43	.9922710	.9864931	.9868701	.9955202	.9985962	.9993299	.9996926	.9998476
44	.9920539	.9854907	.9858252	.9953073	.9985977	.9992964	.9996704	.9998335
45	.9918436	.9844709	.9847611	.9951240	.9986287	.9992703	.9996504	.9998200
46	.9916393	.9834376	.9836819	.9949762	.9986941	.9992529	.9996329	.9998073
47	.9914401	.9823948	.9825922	.9948703	.9987993	.9992455	.9996184	.9997956
48	.9912450	.9813467	.9814962	.9948130	.9989500	.9992496	.9996073	.9997851
49	.9910530	.9802976	.9803986	.9948113	.9991523	.9992667	.9996000	.9997760

x	.13	.14	.15	.16	.17	.18	.19	.20
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999996	.9999999	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999991	.9999998	.9999999	.9999999	.9999999	1.0000000	1.0000000	1.0000000
9	.9999984	.9999997	.9999995	.9999999	.9999999	.9999999	.9999999	1.0000000
10	.9999980	.9999996	.9999994	.9999999	.9999999	.9999999	.9999999	.9999999
11	.9999978	.9999996	.9999995	.9999999	.9999999	.9999999	.9999999	.9999999
12	.9999985	.9999998	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
13	.9999997	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
14	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
15	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
16	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
17	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
18	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
19	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
20	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
21	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
22	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
23	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
24	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
25	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
26	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
27	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
28	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
29	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
30	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
31	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
32	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
33	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
34	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
35	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
36	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
37	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
38	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
39	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
40	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
41	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
42	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
43	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
44	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
45	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
46	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
47	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
48	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
49	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 60$$

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999988	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
12	.9999931	.9999967	.9999985	.9999993	.9999997	.9999999	1.0000000	1.0000000
13	.9999750	.9999860	.9999940	.9999978	.9999991	.9999997	.9999999	.9999999
14	.9999218	.9999604	.9999800	.9999901	.9999957	.9999984	.9999997	.9999999
15	.9997770	.9998803	.9999373	.9999679	.9999839	.9999932	.9999973	.9999993
16	.9994043	.9996678	.9998190	.9999037	.9999499	.9999746	.9999894	.9999959
17	.9985304	.9991465	.9995100	.9997335	.9998561	.9999242	.9999610	.9999865
18	.9966371	.9979761	.9988100	.9993166	.9996167	.9997908	.9998880	.9999417
19	.9928365	.9955034	.9972669	.9983702	.9990510	.9994606	.9997008	.9998388
20	.9857468	.9907561	.9941484	.9963743	.9978004	.9987068	.9992854	.9995818
21	.9734096	.9821257	.9882497	.9924538	.9958669	.9971016	.9988679	.9994901
22	.9514880	.9675431	.9778772	.9850661	.9904148	.9939111	.9966845	.9977156
23	.9231776	.9445036	.9606047	.9729445	.9817533	.9887811	.9932709	.9951493
24	.8801780	.9104107	.9344862	.9531609	.9670710	.9776586	.9851044	.9903088
25	.8239060	.8630921	.8954382	.9233679	.9445681	.9600048	.9719291	.9817432
26	.7518674	.8014147	.8447588	.8818320	.9111169	.9349684	.9534913	.9675120
27	.6670197	.7285313	.7787898	.8253058	.8640083	.8977081	.9243808	.9465811
28	.5737813	.6486642	.6995327	.7550975	.8044667	.8471669	.8831827	.9185998
29	.4765988	.5639827	.6098470	.6724707	.7304111	.7835865	.8183817	.8673407
30	.3811071	.4770495	.5141931	.5804857	.6447480	.7048096	.7396156	.8008948
31	.8986351	.3934589	.4179799	.4845299	.5512974	.6164704	.6783781	.7356118
32	.8153886	.3101967	.3266671	.3894020	.4581063	.5317987	.5877461	.6518054
33	.7514615	.2404786	.2446661	.3007988	.3616479	.4486318	.4983047	.5586851
34	.1017305	.1353507	.1756767	.2224733	.2759133	.3734639	.3974089	.4689888
35	.0651389	.0899086	.1204108	.1576700	.2016406	.2530423	.3043059	.3893390
36	.0397108	.0566575	.0787190	.1066103	.1408720	.1817840	.2289500	.2889483
37	.0230282	.0340535	.0490146	.0687148	.0939145	.1253431	.1603138	.2076334
38	.0126787	.0194547	.0290285	.0421587	.0596269	.0822857	.1107706	.1434878
39	.0066258	.0105533	.0163319	.0245877	.0360388	.0514703	.0716433	.0974890
40	.0032004	.0054281	.0087186	.0136139	.0206845	.0306046	.0441312	.0630643
41	.0015398	.0026450	.0044110	.0071470	.0118695	.0178739	.0258068	.0375810
42	.0006833	.0011896	.0020106	.0033585	.0055509	.0084417	.0124327	.0183727
43	.0002835	.0005116	.0009566	.0016709	.0028358	.0046202	.0071172	.0111586
44	.0001134	.0002187	.0004090	.0007491	.0013078	.0023403	.0037334	.0060569
45	.0000433	.0000849	.0001649	.0003109	.0005691	.0010199	.0017507	.0029469
46	.0000149	.0000310	.0000626	.0001227	.0002333	.0004310	.0007739	.0013920
47	.0000049	.0000106	.0000224	.0000455	.0000900	.0001786	.0003210	.0005840
48	.0000015	.0000034	.0000075	.0000159	.0000326	.0000649	.0001158	.0002070
49	.0000004	.0000010	.0000024	.0000052	.0000111	.0000223	.0000401	.0000708
50	.0000001	.0000003	.0000007	.0000016	.0000035	.0000076	.0000138	.0000241
51		.0000001	.0000002	.0000005	.0000010	.0000023	.0000051	.0000107
52				.0000001	.0000003	.0000007	.0000015	.0000033
53					.0000001	.0000002	.0000004	.0000010
54							.0000001	.0000003
55								.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	.9999998	.9999999
15	.9999998	.9999997
16	.9999971	.9999987
17	.9999904	.9999955
18	.9999704	.9999853
19	.9999147	.9999548
20	.9997710	.9998778
21	.9994259	.9996819
22	.9986585	.9992848
23	.9970305	.9983876
24	.9938464	.9961897
25	.9879030	.9938839
26	.9778487	.9888833
27	.9613551	.9793653
28	.9361860	.9644060
29	.8997684	.9359839
30	.8503010	.8857999
31	.7871134	.8192812
32	.7106401	.7448187
33	.6233893	.6647710
34	.5293990	.5850858
35	.4337885	.5000000
36	.3419157	.4049745
37	.2585381	.3152888
38	.1871881	.2381043
39	.1293870	.1677704

$$B(x;n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 49$$

x	.40	.50
40	.00021888	.11248001
41	.00133834	.07401161
42	.00317691	.04559348
43	.00479346	.02864447
44	.00557185	.01747467
45	.00486307	.01077161
46	.00336996	.00661103
47	.00210309	.00397784
48	.00114344	.00231750
49	.00061717	.00131181
50	.00030635	.00071938
51	.00014319	.00038438
52	.00006371	.00019147
53	.00002681	.00009045
54	.00001066	.00004013
55	.00000401	.00001703
56		.00000691

$$\sum_{n=1}^{\infty}$$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.5051613	.7564774	.8014173	.9401908	.9784143	.9884491	.9917790	.9970016
2	.1258754	.4095694	.6046918	.7781444	.8907548	.9380907	.9610065	.9821175
3	.0331455	.1650198	.3607631	.5344491	.6862624	.7960620	.8729810	.9269843
4	.0054249	.0518986	.1787300	.3071118	.4661855	.6114847	.7190015	.8000435
5	.0007856	.0142328	.0598308	.1484541	.2780557	.4413353	.5876483	.6677007
6	.0000758	.0004102	.0166171	.0611985	.1390984	.2960954	.4565795	.5495771
7	.0000049	.0000599	.0040997	.0210035	.0663535	.1268038	.2174683	.3262465
8	.0000001	.0000081	.0011050	.0067908	.0283607	.0550902	.1154097	.1954130
9		.0000111	.0002148	.0018745	.0099881	.0218814	.0549158	.1053195
10		.0000014	.0000451	.0004611	.0034991	.0084796	.0254498	.0514078
11		.0000001	.0000075	.0001021	.0006044	.0029838	.0091452	.0242000
12			.0000011	.0000130	.0001720	.0008039	.0030197	.0097104
13			.0000009	.0000037	.0000394	.0002448	.0010447	.0034111
14				.0000006	.0000063	.0000617	.0003091	.0011219
15				.0000001	.0000010	.0000144	.0000847	.0003647
16					.0000001	.0000031	.0000214	.0001054
17						.0000006	.0000050	.0000345
18						.0000001	.0000011	.0000071
19							.0000002	.0000017
20								.0000004
21								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9986490	.9993734	.9997114	.9998700	.9999416	.9999740	.9999888	.9999950
2	.9929405	.9965000	.9987197	.9996076	.9998638	.9999644	.9999863	.9999943
3	.9571610	.9785187	.9906601	.9970181	.9991079	.9998141	.9999646	.9999896
4	.8858491	.9507594	.9820181	.9947580	.9985618	.9996758	.9999363	.9999856
5	.7661100	.8410055	.8997141	.9915555	.9980879	.9995363	.9998784	.9999829
6	.6109953	.7127784	.8066661	.8501948	.9861817	.9939640	.9985970	.9997497
7	.4419680	.5581908	.6817072	.7490393	.8809604	.9757385	.9962012	.9990088
8	.2938072	.4011403	.5103313	.6139537	.7845334	.9013105	.9849370	.9980414
9	.1759341	.2637166	.3699949	.4665731	.5675308	.6602830	.7911910	.8805158
10	.0959793	.1585573	.2375475	.3307850	.4256019	.5045469	.6174108	.7241055
11	.0477487	.0878691	.1429805	.2141704	.2979508	.3892573	.4842268	.5761911
12	.0217011	.0440641	.0798075	.1283199	.1991884	.2786711	.3660056	.4646582
13	.0090697	.0204614	.0423611	.0717631	.1262153	.1842701	.2667024	.3640799
14	.0034943	.0087609	.0210950	.0376907	.0749015	.1147004	.1871720	.2721375
15	.0012161	.0034678	.0098449	.0176836	.0411436	.0685863	.1284880	.1916711
16	.0004060	.0012781	.0043838	.0077850	.0216675	.0396604	.0857084	.1347161
17	.0001230	.0004355	.0017755	.0031470	.0107311	.0221771	.0547159	.0929560
18	.0000351	.0001375	.0006480	.0011583	.0050782	.0116775	.0333334	.0619004
19	.0000093	.0000407	.0002469	.0003910	.0022081	.0058063	.0196077	.0398502
20	.0000023	.0000117	.0000850	.0001590	.0009442	.0028498	.0109858	.0245855
21	.0000005	.0000029	.0000288	.0000600	.0003931	.0013225	.0058525	.0144321
22	.0000001	.0000007	.0000091	.0000214	.0001593	.0006068	.0029658	.0083098
23		.0000002	.0000026	.0000070	.0000623	.0002766	.0014550	.0046378
24			.0000007	.0000019	.0000234	.0001185	.0006869	.0024861
25				.0000005	.0000083	.0000485	.0003155	.0012478
26				.0000001	.0000029	.0000186	.0001445	.0006151
27					.0000009	.0000069	.0000619	.0003046
28					.0000003	.0000023	.0000253	.0001511
29					.0000001	.0000007	.0000101	.0000734
30							.0000038	.0000351
								.0000164

N	.17	.18	.19	.20	.21	.00	.91	.94
1	.9997970	.9999091	.9999636	.9999838	.9999949	1.0000000	1.0000000	1.0000000
2	.9989660	.9997848	.9999519	.9999823	.9999967	.9999994	.9999999	.9999999
3	.9937475	.9990770	.9998410	.9999701	.9999970	.9999998	.9999999	.9999999
4	.9788091	.9953404	.9986636	.9997114	.9999869	.9999997	.9999999	.9999999
5	.9458156	.9873674	.9948530	.9990420	.9996846	.9999974	.9999991	.9999996
6	.8857001	.9716506	.9851945	.9958971	.9985087	.9994933	.9998719	.9999774
7	.8040324	.9380556	.9666648	.9880898	.9945550	.9973478	.9993165	.9998869
8	.7055860	.8907710	.9368383	.9729990	.9856418	.9905867	.9978141	.9994829
9	.5968035	.8316059	.8942659	.9468868	.9671698	.9781088	.9938540	.9984453
10	.4779650	.7622614	.8393743	.9054646	.9342267	.9544675	.9874905	.9964066
11	.3667707	.6867770	.7737119	.8453107	.8845441	.9061190	.9744819	.9908686
12	.2736981	.6094538	.7003309	.7681191	.8154271	.8317368	.9480641	.9786005
13	.1911492	.5329100	.6243473	.6755731	.7350031	.7363223	.8972376	.9501866
14	.1256214	.4601417	.5475878	.5727370	.6479370	.6254426	.8178769	.8919769
15	.0907493	.3901101	.4731107	.4691250	.5611960	.5098440	.7159941	.7959478
16	.1373998	.1815214	.2458797	.1185564	.1960960	.4776886	.5576800	.6438686
17	.0760855	.1347915	.1840807	.0835303	.0917308	.3864886	.4447813	.5137951
18	.0485748	.0982137	.1301490	.0548888	.0389447	.2967478	.3376802	.4132858
19	.0383658	.0781086	.0919500	.0395190	.0133464	.2139644	.2414630	.3105966
20	.0110366	.0500393	.0540206	.0245354	.0030657	.1500614	.1664704	.2238458
21	.0051198	.0099884	.0178654	.0103081	.0048632	.0741004	.1077743	.1503781
22	.0018944	.0046071	.0088303	.0058071	.0036917	.0443351	.0661099	.0956429
23	.0009181	.0020209	.0041321	.0027572	.0019700	.0239457	.0385577	.0580484
24	.0003554	.0008350	.0018134	.0013667	.0009545	.0118304	.0210577	.0339403
25	.0001097	.0003256	.0007528	.0006166	.0004256	.0061208	.0109379	.0185966
26	.0000447	.0001198	.0002951	.0002731	.0001316	.0028566	.0053789	.0095863
27	.0000145	.0000416	.0001093	.0000640	.0000570	.0012594	.0025005	.0046943
28	.0000045	.0000137	.0000382	.0000285	.0000254	.0005281	.0011008	.0021769
29	.0000013	.0000042	.0000127	.0000116	.0000108	.0002071	.0004588	.0009560
30	.0000004	.0000012	.0000040	.0000045	.0000043	.0000775	.0001810	.0003976
31	.0000001	.0000003	.0000012	.0000016	.0000016	.0000274	.0000676	.0001566
32		.0000001	.0000003	.0000005	.0000005	.0000093	.0000239	.0000594
33			.0000001	.0000001	.0000002	.0000029	.0000080	.0000207
34				.0000001	.0000001	.0000009	.0000025	.0000069
35					.0000001	.0000002	.0000008	.0000022
36						.0000001	.0000002	.0000007
37							.0000001	.0000003
38								.0000001

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 70$$

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999958	.9999981	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000
5	.9999755	.9999883	.9999945	.9999975	.9999989	.9999995	.9999998	.9999999
6	.9998861	.9999428	.9999718	.9999864	.9999935	.9999970	.9999986	.9999994
7	.9995630	.9997697	.9998809	.9999396	.9999699	.9999853	.9999930	.9999967
8	.9985786	.9992136	.9995736	.9997733	.9998819	.9999396	.9999697	.9999851
9	.9959945	.9976750	.9990784	.9996642	.9998986	.9999855	.9999476	.9999823
10	.9900607	.9939508	.9963975	.9979001	.9990016	.9993302	.9996334	.9998035
11	.9779953	.9859689	.9912514	.9946642	.9968157	.9981402	.9989367	.9994049
12	.9560581	.9706720	.9808696	.9878001	.9923914	.9953583	.9972295	.9983818
13	.9201056	.9442469	.9619902	.9746758	.9835064	.9894964	.9934582	.9960147
14	.8666377	.9028238	.9308362	.9519045	.9673151	.9788879	.9858989	.9910450
15	.7940741	.8435660	.8839224	.9158499	.9403804	.9587303	.9720715	.9815230
16	.7037727	.7658414	.8191428	.8635040	.8993308	.9274382	.9488789	.9647942
17	.6003024	.6719655	.7367817	.7955278	.8416826	.8813381	.9130606	.9377329
18	.4907458	.5671947	.6401190	.7070065	.7668879	.8195803	.8619438	.8972814
19	.3832176	.4588057	.5346405	.6081059	.6769353	.7393853	.7943233	.8413310
20	.2851219	.3545796	.4279704	.5027582	.5763804	.6464952	.7111773	.7690423
21	.2017405	.2611986	.3273644	.3982883	.4716476	.5449796	.6159210	.6824158
22	.1355649	.1830806	.2387681	.3015570	.3697947	.4413923	.5140249	.5853553
23	.0864345	.1219490	.1657838	.2177720	.2771360	.3425135	.4120618	.4836234
24	.0522548	.0771239	.1094480	.1497726	.1981519	.2540753	.3164593	.3837129
25	.0299463	.0462815	.0686432	.0979860	.1349739	.1798504	.2323452	.2916384
26	.0162626	.0263422	.0409735	.0609298	.0874926	.1211188	.1628109	.2119128
27	.0083681	.0142170	.0230969	.0359882	.0539264	.0779025	.1087417	.1469779
28	.0040798	.0072745	.0123822	.0201815	.0315840	.0475800	.0691547	.0971803
29	.0018846	.0035284	.0062962	.0107414	.0175694	.0276228	.0418413	.0611921
30	.0008248	.0016222	.0030361	.0054246	.0092791	.0152356	.0240692	.0366647
31	.0003420	.0007069	.0013883	.0025988	.0046513	.0079802	.0131570	.0208902
32	.0001344	.0002920	.0006018	.0011800	.0022123	.0039681	.0069310	.0113117
33	.0000500	.0001143	.0002473	.0005088	.0009981	.0018724	.0033672	.0058182
34	.0000176	.0000424	.0000963	.0002078	.0004271	.0008382	.0015752	.0028413
35	.0000059	.0000149	.0000355	.0000805	.0001733	.0003558	.0006991	.0013168
36	.0000019	.0000050	.0000124	.0000295	.0000666	.0001432	.0002942	.0005789
37	.0000006	.0000016	.0000041	.0000103	.0000243	.0000546	.0001174	.0002413
38	.0000002	.0000005	.0000013	.0000034	.0000084	.0000197	.0000444	.0000953
39		.0000001	.0000004	.0000011	.0000027	.0000068	.0000159	.0000357
40			.0000001	.0000003	.0000008	.0000022	.0000054	.0000126
41				.0000001	.0000002	.0000007	.0000017	.0000042
42					.0000001	.0000002	.0000005	.0000013
43						.0000001	.0000001	.0000004
44								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999985	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
8	.9999928	.9999966	.9999984	.9999993	.9999997	.9999999	.9999999	1.0000000
9	.9999710	.9999857	.9999931	.9999967	.9999985	.9999993	.9999997	.9999999
10	.9998968	.9999459	.9999732	.9999868	.9999936	.9999970	.9999986	.9999994
11	.9996739	.9998250	.9999081	.9999527	.9999762	.9999883	.9999943	.9999973
12	.9990751	.9994826	.9997167	.9998482	.9999204	.9999592	.9999795	.9999899
13	.9976250	.9986153	.9992101	.9995592	.9997593	.9998715	.9999329	.9999657
14	.9944384	.9966218	.9979930	.9988338	.9993372	.9996316	.9997988	.9998936
15	.9880482	.9924406	.9953247	.9971725	.9983279	.9990332	.9994535	.9996980
16	.9752979	.9843994	.9899608	.9936838	.9961149	.9976638	.9986268	.9992111
17	.9564036	.9701596	.9800325	.9869381	.9916472	.9947787	.9968100	.9980953
18	.9252783	.9468582	.9630510	.9748852	.9833125	.9891619	.9931303	.9957324
19	.8801388	.9115138	.9361272	.9549225	.9688995	.9790254	.9861743	.9910940
20	.8192910	.8616821	.8964502	.9241904	.9457327	.9620322	.9740205	.9826311
21	.7428679	.7962214	.8419705	.8801092	.9110376	.9354479	.9542057	.9682442
22	.6532460	.7159305	.7721248	.8210717	.8625222	.8966682	.9240427	.9454078
23	.5549294	.6238061	.6883589	.7471072	.7990602	.8437299	.8810907	.9114993
24	.4539693	.5247632	.5942272	.6602793	.7213765	.7760164	.8237806	.8643231
25	.3563917	.4248450	.4994665	.5646329	.6314150	.6947420	.7520255	.8027297
26	.2680507	.3301346	.3966221	.4656389	.5351397	.6030855	.6676133	.7271764
27	.1927428	.2456901	.3049698	.3692626	.4368709	.5058568	.5742063	.6399995
28	.1328967	.1747984	.2245455	.2800176	.3428194	.4087443	.4768862	.5452888
29	.0865755	.1187141	.1580408	.2046017	.2579918	.3173376	.3813324	.4483231
30	.0539611	.0768707	.1061778	.1434306	.1858396	.2362003	.2928546	.3547010
31	.0320073	.0474112	.0680119	.0946365	.1279269	.1682368	.2155453	.2694009
32	.0180549	.0278292	.0414946	.0599473	.0844402	.1144884	.1517603	.1960244
33	.0096796	.0155347	.0240927	.0361662	.0526272	.0743397	.1020731	.1364061
34	.0049394	.0082416	.0133026	.0207625	.0313831	.0460040	.0654868	.0906384
35	.0023834	.0041531	.0069800	.0113334	.0178054	.0271046	.0400317	.0574345
36	.0010935	.0019867	.0034782	.0058780	.0096034	.0151901	.0232920	.0346660
37	.0004758	.0009017	.0016450	.0028946	.0049202	.0080905	.0128870	.0199087
38	.0001963	.0003880	.0007379	.0013525	.0023927	.0040920	.0067739	.0100682
39	.0000767	.0001582	.0003138	.0005992	.0011037	.0019637	.0033798	.0056342
40	.0000284	.0000611	.0001264	.0002515	.0004825	.0008934	.0015993	.0027712
41	.0000099	.0000223	.0000482	.0001000	.0001998	.0003851	.0007171	.0012919
42	.0000033	.0000077	.0000174	.0000376	.0000782	.0001571	.0003044	.0005704
43	.0000010	.0000025	.0000059	.0000134	.0000290	.0000606	.0001222	.0002382
44	.0000003	.0000008	.0000019	.0000045	.0000101	.0000221	.0000463	.0000940
45	.0000001	.0000002	.0000006	.0000014	.0000033	.0000076	.0000166	.0000350
46		.0000001	.0000002	.0000004	.0000010	.0000025	.0000056	.0000123
47				.0000001	.0000003	.0000007	.0000018	.0000041
48					.0000001	.0000002	.0000005	.0000013
49						.0000001	.0000001	.0000004
50								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 70$$

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999988	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999953	.9999977	.9999990	.9999995	.9999998	.9999999	1.0000000	1.0000000
13	.9999829	.9999916	.9999960	.9999981	.9999992	.9999996	.9999998	.9999999
14	.9999448	.9999720	.9999861	.9999933	.9999966	.9999985	.9999993	.9999997
15	.9998369	.9999139	.9999556	.9999777	.9999890	.9999947	.9999975	.9999989
16	.9995571	.9997571	.9998699	.9999319	.9999652	.9999827	.9999916	.9999960
17	.9988887	.9993666	.9996474	.9998084	.9998983	.9999474	.9999734	.9999869
18	.9974134	.9984685	.9991144	.9995000	.9997245	.9998518	.9999223	.9999603
19	.9943946	.9965536	.9979304	.9987866	.9993056	.9996122	.9997888	.9998878
20	.9886533	.9927584	.9954860	.9972525	.9983676	.9990536	.9994648	.9997049
21	.9784795	.9857505	.9907836	.9941788	.9964106	.9978400	.9987320	.9992741
22	.9635463	.9736678	.9823374	.9884287	.9925982	.9953787	.9971849	.9983275
23	.9355925	.9541802	.9681459	.9783660	.9856510	.9907089	.9941291	.9963812
24	.8978078	.9247297	.9458032	.9618657	.9737884	.9824069	.9884737	.9926320
25	.8463875	.8829659	.9127954	.9364768	.9547814	.9685575	.9786524	.9858544
26	.7806392	.8273192	.8669783	.8997718	.9261673	.9468499	.9626371	.9743430
27	.7015613	.7575763	.8071564	.8498570	.8856472	.9148451	.9380308	.9559520
28	.6120091	.6752743	.7336132	.7859449	.8316204	.8704159	.9024857	.9282868
29	.5164397	.5837489	.6464118	.7088265	.7637361	.8122935	.8540782	.8890692
30	.4202560	.4877614	.5553243	.6210711	.6832964	.7405870	.7919075	.8366404
31	.3289086	.3927670	.4693516	.5268384	.5933508	.6571065	.7165597	.7704994
32	.2470007	.3040068	.3859316	.4313031	.4983923	.5653477	.6303431	.6917810
33	.1776305	.2256722	.2800406	.3398194	.4037042	.4700843	.5371621	.6030954
34	.1221201	.1603524	.2054281	.2570485	.3144939	.3766384	.4420099	.5088919
35	.0801414	.1088783	.1441751	.1862759	.2350633	.2900126	.3501843	.4142621
36	.0501363	.0705389	.0966464	.1290800	.1682179	.2141120	.2664275	.3244158
37	.0298645	.0435472	.0617874	.0853888	.1150454	.1512519	.1942158	.2437846
38	.0169196	.0255862	.0376225	.0538434	.0750680	.1020461	.1353711	.1753905
39	.0091075	.0142913	.0217915	.0323189	.0466630	.0656453	.0900543	.1205644
40	.0046532	.0075803	.0119923	.0184424	.0275940	.0402028	.0570807	.0790394
41	.0022543	.0038140	.0062633	.0099926	.0155024	.0234060	.0344191	.0493330
42	.0010345	.0018184	.0031009	.0051347	.0082636	.0129365	.0197146	.0292687
43	.0004492	.0008205	.0014536	.0024992	.0041741	.0067765	.0107110	.0164804
44	.0001844	.0003501	.0006445	.0011508	.0019754	.0033627	.0055118	.0087937
45	.0000715	.0001411	.0002699	.0005006	.0009015	.0015771	.0026026	.0044397
46	.0000261	.0000526	.0001066	.0002055	.0003844	.0006983	.0012330	.0021176
47	.0000090	.0000192	.0000397	.0000795	.0001545	.0002915	.0005344	.0009526
48	.0000029	.0000065	.0000139	.0000289	.0000584	.0001145	.0002186	.0004035
49	.0000009	.0000020	.0000046	.0000099	.0000207	.0000422	.0000836	.0001607
50	.0000003	.0000006	.0000014	.0000032	.0000069	.0000146	.0000300	.0000600
51	.0000001	.0000002	.0000004	.0000009	.0000022	.0000047	.0000101	.0000210
52			.0000001	.0000003	.0000006	.0000014	.0000032	.0000068
53				.0000001	.0000002	.0000004	.0000009	.0000021
54						.0000001	.0000003	.0000006
55							.0000001	.0000002

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	.9999999	.9999999
15	.9999995	.9999998
16	.9999988	.9999998
17	.9999937	.9999971
18	.9999808	.9999904
19	.9999480	.9999708
20	.9998414	.9999170
21	.9995930	.9997799
22	.9990313	.9994534
23	.9977888	.9987862
24	.9954066	.9973687
25	.9908861	.9943388
26	.9830114	.9887686
27	.9694340	.9793043
28	.9484887	.9630810
29	.9178840	.9401953
30	.8745808	.9058919
31	.8181145	.8590108
32	.7481180	.7985198
33	.6661488	.7247937
34	.5758848	.6399266
35	.4806346	.5475187
36	.3869308	.4584873
37	.2994016	.3801014
38	.2231843	.3159063
39	.1576466	.2614815

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 70

c	.49	.50
40	.1068165	.1409895
41	.0689681	.0941084
42	.0423601	.0598047
43	.0247084	.0361190
44	.0136650	.0206957
45	.0071542	.0112314
46	.0035398	.0057632
47	.0016526	.0027913
48	.0007267	.0012736
49	.0003004	.0005466
50	.0001165	.0002201
51	.0000423	.0000830
52	.0000143	.0000292
53	.0000045	.0000096
54	.0000013	.0000029
55	.0000004	.0000008
56	.0000001	.0000002
57		.0000001

$$F(c,n;p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 71

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.5101097	.7617399	.8C49740	.9448066	.97377955	.9876383	.9942152	.9973151
2	.1587743	.4166058	.6323936	.7818426	.8754734	.9316162	.9633006	.9807384
3	.0345648	.1699100	.3587709	.5440702	.6954906	.8064605	.8818591	.9302878
4	.0057080	.0541610	.1544916	.3162050	.4771324	.6227213	.7408669	.8293866
5	.0007528	.0140032	.0622342	.1548005	.2817593	.4233445	.5604622	.6802282
6	.0000821	.0030212	.0198554	.0646829	.1439699	.2520138	.3785035	.5064264
7	.0000076	.0005559	.0054379	.0233791	.0641971	.1330795	.2278495	.3401011
8	.0000006	.0000887	.0013994	.0073944	.0252104	.0621124	.1285538	.2059458
9		.0000134	.0002729	.0020715	.0087949	.0258738	.0591499	.1135647
10		.0000016	.0000511	.0005178	.0027471	.0096821	.0257435	.0557240
11		.0000002	.0000086	.0001165	.0007736	.0032784	.0101539	.0250795
12			.0000013	.0000237	.0001976	.0010062	.0036468	.0103023
13			.0000002	.0000044	.0000460	.0002824	.0011978	.0038774
14				.0000007	.0000098	.0000727	.0003613	.0013418
15				.0000001	.0000019	.0000172	.0001004	.0004284
16					.0000003	.0000038	.0000258	.0001365
17					.0000001	.0000008	.0000061	.0000347
18						.0000001	.0000014	.0000088
19							.0000003	.0000021
20							.0000001	.0000005
21								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9987642	.9994361	.9997449	.9998856	.9999492	.9999776	.9999903	.9999958
2	.9900867	.9949874	.9975064	.9987784	.9994102	.9997193	.9998682	.9999389
3	.9600489	.9776868	.9878232	.9934941	.9965916	.9982470	.9991141	.9995597
4	.8917213	.9334744	.9602966	.9769204	.9869045	.9927347	.9960534	.9978986
5	.7768407	.8499619	.9024597	.9384995	.9622971	.9774797	.9868715	.9925197
6	.6245924	.7256211	.8066716	.8682941	.9130256	.9442026	.9651588	.9787906
7	.4589597	.5736491	.6764407	.7629830	.8320392	.8846133	.9230106	.9500250
8	.3066480	.4168525	.5269827	.6296413	.7196639	.7945365	.8539444	.8991470
9	.1864959	.2774778	.3792019	.4841744	.5853412	.6772271	.7564391	.8216106
10	.1031752	.1690752	.2513467	.3453196	.4440374	.5435490	.6359913	.7182474
11	.0520840	.0943979	.1533722	.2279242	.3146696	.4086274	.5042073	.5961709
12	.0240630	.0483246	.0862212	.1391500	.2068065	.2860271	.3752422	.4672243
13	.0102065	.0228216	.0447233	.0786221	.1262286	.1876074	.2614494	.3444181
14	.0039868	.0099309	.0214456	.0411625	.0715784	.1144410	.1703123	.2382559
15	.0014384	.0039971	.0095268	.0200003	.0377414	.0650423	.1036826	.1544817
16	.0004807	.0014917	.0039289	.0090344	.0165315	.0344840	.0590015	.0936451
17	.0001492	.0005174	.0015074	.0038007	.0084050	.0170729	.0314043	.0534207
18	.0000431	.0001671	.0005391	.0014917	.0036282	.0079029	.0156482	.0285093
19	.0000116	.0000504	.0001800	.0005471	.0014510	.0034245	.0073067	.0142742
20	.0000029	.0000142	.0000562	.0001878	.0005435	.0013909	.0032605	.0067107
21	.0000007	.0000037	.0000165	.0000604	.0001909	.0005301	.0013165	.0029650
22	.0000002	.0000009	.0000045	.0000183	.0000630	.0001898	.0005091	.0012322
23		.0000002	.0000012	.0000052	.0000195	.0000639	.0001852	.0004821
24			.0000003	.0000014	.0000057	.0000203	.0000635	.0001778
25			.0000001	.0000003	.0000016	.0000061	.0000205	.0000618
26				.0000001	.0000004	.0000017	.0000062	.0000203
27					.0000001	.0000005	.0000018	.0000063
28						.0000001	.0000005	.0000018
29							.0000001	.0000005
30								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999982	.9999992	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
2	.9999721	.9999874	.9999944	.9999975	.9999989	.9999995	.9999998	.9999999
3	.9997847	.9998964	.9999509	.9999771	.9999895	.9999952	.9999979	.9999991
4	.9989022	.9994370	.9997163	.9998595	.9999316	.9999673	.9999846	.9999929
5	.9958295	.9977225	.9987609	.9993599	.9996702	.9998331	.9999171	.9999595
6	.9873960	.9926796	.9958406	.9976861	.9987388	.9993262	.9996469	.9998185
7	.9683953	.9805027	.9882540	.9930832	.9960157	.9977533	.9987592	.9993285
8	.9322579	.9556822	.9717293	.9823980	.9892939	.9936340	.9962970	.9978918
9	.8730449	.9120951	.9407201	.9610275	.9749994	.9843390	.9904134	.9942623
10	.7881491	.8451197	.8898037	.9236290	.9484009	.9659874	.9781113	.9862391
11	.6803418	.7539678	.8157550	.8656615	.9045639	.9338987	.9553285	.9705305
12	.5578954	.6430090	.7194334	.7852974	.8399434	.8837009	.9175901	.9430217
13	.4334925	.5212250	.6064636	.6848423	.7540553	.8129134	.8612277	.8995867
14	.3159251	.3998980	.4861986	.5708644	.6504377	.7222999	.7848203	.8373357
15	.2170135	.2895623	.3693273	.4528159	.5363271	.6164101	.6902679	.7558946
16	.1400292	.1975262	.2651531	.3406698	.4210611	.5029345	.5829449	.6581653
17	.0848417	.1268155	.1796274	.2425419	.3138198	.3909058	.4707434	.5501487
18	.0482716	.0765977	.1147223	.1631738	.2215900	.2886776	.3623135	.4397912
19	.0258009	.0435275	.0690483	.1036477	.1480410	.2021767	.2651490	.3352420
20	.0129625	.0232778	.0391628	.0621361	.0935034	.1341201	.1841897	.2431460
21	.0061256	.0117207	.0209364	.0351535	.0558104	.0842118	.1213147	.1675303
22	.0027245	.0055595	.0105534	.0187713	.0314769	.0500256	.0757042	.1095394
23	.0011418	.0024858	.0050182	.0094632	.0167760	.0281114	.0447407	.0679191
24	.0004511	.0010484	.0022520	.0045056	.0084506	.0149433	.0250367	.0399182
25	.0001681	.0004173	.0009543	.0020268	.0040245	.0075151	.0132654	.0223335
26	.0000591	.0001569	.0003821	.0008618	.0018125	.0035763	.0066552	.0117343
27	.0000196	.0000557	.0001446	.0003465	.0007722	.0016108	.0031619	.0058684
28	.0000062	.0000187	.0000517	.0001318	.0003113	.0006868	.0014228	.0027811
29	.0000018	.0000059	.0000175	.0000474	.0001188	.0002773	.0006064	.0012490
30	.0000005	.0000018	.0000056	.0000162	.0000429	.0001060	.0002449	.0005316
31	.0000001	.0000005	.0000017	.0000052	.0000147	.0000384	.0000937	.0002145
32		.0000001	.0000005	.0000016	.0000048	.0000132	.0000340	.0000820
33			.0000001	.0000005	.0000015	.0000043	.0000117	.0000297
34				.0000001	.0000004	.0000013	.0000038	.0000102
35					.0000001	.0000004	.0000012	.0000033
36						.0000001	.0000003	.0000010
37							.0000001	.0000003
38								.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 71$$

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999967	.9999985	.9999994	.9999997	.9999999	.9999999	1.0000000	1.0000000
5	.9999806	.9999908	.9999958	.9999981	.9999991	.9999996	.9999998	.9999999
6	.9999084	.9999546	.9999779	.9999895	.9999951	.9999977	.9999990	.9999995
7	.9996438	.9998147	.9999055	.9999527	.9999768	.9999888	.9999947	.9999975
8	.9988247	.9993502	.9996566	.9998199	.9999074	.9999533	.9999769	.9999888
9	.9966406	.9980750	.9989201	.9994067	.9996808	.9998317	.9999131	.9999560
10	.9915442	.9949191	.9970133	.9982820	.9990327	.9994668	.9997122	.9998479
11	.9810116	.9880442	.9926409	.9955702	.9973916	.9984972	.9991527	.9995324
12	.9615424	.9746492	.9836727	.9897220	.9936745	.9961929	.9977587	.9987092
13	.9290937	.9511174	.9670876	.9783506	.9860831	.9912550	.9946273	.9967728
14	.8800046	.9135938	.9392478	.9562894	.9720106	.9816505	.9882423	.9926353
15	.8122150	.8589745	.8965891	.9259452	.9481979	.9645976	.9763580	.9845700
16	.7263480	.7860503	.8366333	.8781609	.9112378	.9360258	.9560686	.9701474
17	.6261699	.6963733	.7590192	.8131211	.8554064	.8951681	.9241642	.9463925
18	.5181348	.5944351	.6661449	.7312930	.7865784	.8374074	.8777200	.9102259
19	.4100996	.4969868	.5630927	.6358205	.7030216	.7633437	.8152857	.8591472
20	.3096458	.3816794	.4567713	.5322555	.6055413	.6743622	.7369526	.7921427
21	.2235859	.2854776	.3545280	.4275399	.5020201	.5754343	.6454504	.7101363
22	.1521088	.2033913	.2626891	.3286417	.3993330	.4724685	.5456127	.6164147
23	.0987171	.1378432	.1854895	.2412318	.3040070	.3721772	.4436703	.5161776
24	.0608012	.0887785	.1246587	.1686124	.2210573	.2806068	.3460960	.4156843
25	.0355239	.0543005	.0796605	.1124062	.1532956	.2021179	.2584206	.3211022
26	.0196835	.0315264	.0483714	.0711055	.1012622	.1388783	.1843666	.2374250
27	.0103418	.0173696	.0278966	.0429718	.0636606	.0909274	.1255031	.1677570
28	.0051519	.0090795	.0152751	.0246074	.0380633	.0566767	.0814266	.1131155
29	.0024334	.0045024	.0079394	.0133846	.0216336	.0336100	.0503085	.0727033
30	.0010890	.0021178	.0039163	.0069133	.0116832	.0189518	.0295786	.0445135
31	.0004627	.0009449	.0018332	.0033900	.0059933	.0101568	.0165398	.0259300
32	.0001863	.0003998	.0008141	.0015779	.0029196	.0051717	.0087921	.0143768
33	.0000711	.0001605	.0003430	.0006970	.0013542	.0025011	.0044410	.0075761
34	.0000257	.0000611	.0001371	.0002921	.0005927	.0011485	.0021307	.0037939
35	.0000088	.0000220	.0000520	.0001161	.0002469	.0005006	.0009707	.0018047
36	.0000029	.0000075	.0000187	.0000438	.0000975	.0002070	.0004197	.0008151
37	.0000009	.0000024	.0000064	.0000157	.0000365	.0000812	.0001722	.0003494
38	.0000003	.0000008	.0000021	.0000053	.0000130	.0000302	.0000670	.0001421
39	.0000001	.0000002	.0000006	.0000017	.0000044	.0000106	.0000247	.0000548
40		.0000001	.0000002	.0000005	.0000014	.0000036	.0000086	.0000200
41				.0000001	.0000004	.0000011	.0000029	.0000069
42					.0000001	.0000003	.0000005	.0000023
43						.0000001	.0000003	.0000007
44							.0000001	.0000002
45								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999947	.9999975	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000
9	.9999782	.9999894	.9999950	.9999976	.9999989	.9999995	.9999998	.9999999
10	.9999213	.9999601	.9999802	.9999904	.9999954	.9999979	.9999990	.9999996
11	.9997474	.9998665	.9999309	.9999650	.9999826	.9999916	.9999960	.9999981
12	.9992727	.9995990	.9997837	.9998858	.9999411	.9999702	.9999853	.9999929
13	.9981035	.9990101	.9993874	.9996332	.9998189	.9999044	.9999611	.9999754
14	.9954899	.9972996	.9984190	.9990949	.9994934	.9997228	.9998517	.9999225
15	.9901570	.9938622	.9962586	.9977706	.9987014	.9992606	.9995885	.9997763
16	.9801755	.9871334	.9918382	.9944398	.9969337	.9981842	.9989492	.9994059
17	.9629687	.9750011	.9835074	.9893666	.9933003	.9958751	.9975185	.9985416
18	.9355496	.9547807	.9689945	.9792243	.9863963	.9912963	.9945593	.9966775
19	.8950348	.9235309	.9455505	.9621091	.9742383	.9828773	.9888833	.9929494
20	.8393708	.8786249	.9103372	.9352540	.9543044	.9684834	.9787605	.9860163
21	.7680875	.8184780	.8610384	.8950784	.9238748	.9455461	.9619335	.9739990
22	.6828212	.7432294	.7965708	.8423252	.8804729	.9114045	.9358062	.9545424
23	.5873738	.6551284	.7176769	.7737244	.8225412	.8638465	.8978420	.9250627
24	.4872193	.5584378	.6271733	.6915373	.7500565	.8017476	.8461315	.8831930
25	.3885593	.4588172	.5297077	.5990656	.6649158	.7256263	.7800100	.8273667
26	.2972032	.3623362	.4310426	.5012768	.5709096	.6379150	.7005341	.7573978
27	.2175944	.2744012	.3370481	.4039581	.4732304	.5428037	.6106351	.6748703
28	.1522439	.1989115	.2526940	.3127218	.3776185	.4456470	.5148410	.5831731
29	.1016635	.1377827	.1813175	.2320754	.2893780	.3520721	.4185983	.4871094
30	.0647239	.0910974	.1243298	.1648122	.2125359	.2670325	.3273609	.3921498
31	.0392521	.0574474	.0813699	.1118424	.1493546	.1940629	.2456959	.3035209
32	.0226592	.0344871	.0507756	.0724354	.1003783	.1349128	.1766413	.2253750
33	.0124435	.0197148	.0301833	.0447274	.0642500	.0895962	.1214548	.1602534
34	.0064970	.0107213	.0170792	.0263078	.0392434	.0567715	.0797555	.1089455
35	.0032236	.0055432	.0091929	.0147279	.0228242	.0342863	.0499592	.0707160
36	.0015192	.0027233	.0047038	.0078420	.0126382	.0197176	.0298205	.0437734
37	.0006797	.0012706	.0023866	.0039686	.0066530	.0107884	.0169449	.0258116
38	.0002685	.0005627	.0010554	.0019077	.0033279	.0056114	.0091530	.0144844
39	.0001163	.0002364	.0004622	.0008704	.0015806	.0027725	.0047035	.0077278
40	.0000443	.0000941	.0001920	.0003767	.0007183	.0013002	.0023937	.0039164
41	.0000160	.0000355	.0000756	.0001545	.0003044	.0005782	.0010612	.0018836
42	.0000055	.0000127	.0000282	.0000600	.0001232	.0002437	.0004654	.0008590
43	.0000018	.0000043	.0000099	.0000221	.0000472	.0000972	.0001933	.0003711
44	.0000005	.0000014	.0000033	.0000077	.0000171	.0000367	.0000759	.0001517
45	.0000002	.0000004	.0000010	.0000025	.0000059	.0000131	.0000282	.0000586
46		.0000001	.0000003	.0000008	.0000019	.0000044	.0000099	.0000214
47			.0000001	.0000002	.0000006	.0000014	.0000033	.0000074
48				.0000001	.0000002	.0000004	.0000010	.0000024

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 71

x/p	.33	.34	.35	.36	.37	.38	.39	.40
49						.0000001	.0000003	.0000007
50							.0000001	.0000002
51								.0000001

x/p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	.9999998	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	.9999992	.9999996	.9999998	.9999999	1.00000000	1.00000000	1.00000000	1.00000000
12	.9999966	.9999985	.9999993	.9999997	.9999999	.9999999	1.00000000	1.00000000
13	.9999879	.9999942	.9999973	.9999988	.9999994	.9999998	.9999999	1.00000000
14	.9999604	.9999802	.9999904	.9999954	.9999979	.9999990	.9999996	.9999998
15	.9998811	.9999383	.9999687	.9999845	.9999925	.9999965	.9999984	.9999993
16	.9996718	.9998230	.9999067	.9999521	.9999759	.9999882	.9999944	.9999974
17	.9991628	.9995306	.9997431	.9998627	.9999284	.9999636	.9999820	.9999913
18	.9980183	.9988457	.9993436	.9996357	.9998027	.9998958	.9999463	.9999731
19	.9956323	.9973578	.9984395	.9991005	.9994941	.9997224	.9998515	.9999226
20	.9910073	.9943524	.9965371	.9979275	.9987897	.9993105	.9996170	.9997927
21	.9826508	.9886938	.9928056	.9955312	.9972912	.9983983	.9990764	.9994809
22	.9685479	.9787425	.9859693	.9909587	.9943138	.9965109	.9979120	.9987819
23	.9462746	.9623650	.9742482	.9827936	.9887772	.9928570	.9955653	.9973154
24	.9132996	.9370989	.9554105	.9691258	.9791266	.9862258	.9911317	.9944316
25	.8674698	.9005067	.9269888	.9476479	.9633346	.9749283	.9838684	.9891076
26	.8075960	.8506908	.8866797	.9159220	.9390436	.9568354	.9701590	.9798685
27	.7339832	.7868683	.8328799	.8718195	.9038812	.9295673	.9495910	.9647797
28	.6487255	.7098412	.7652368	.8140662	.8559324	.8908533	.9191919	.9415661
29	.5556232	.6221896	.6850484	.7427586	.7942840	.8390298	.8768897	.9078937
30	.4596913	.5280762	.5953519	.6596835	.7194943	.7735720	.8211277	.8618068
31	.3663611	.4326647	.5006198	.5683008	.6330260	.6955075	.7519731	.8032471
32	.2805629	.3412861	.4061022	.4733386	.5411233	.6075567	.6708649	.7295346
33	.2060783	.2585787	.3169737	.3800722	.4463138	.5139054	.5809572	.6456387
34	.1448794	.1877867	.2375115	.2934677	.3546385	.4196235	.4867315	.5541095
35	.0973527	.1304974	.1705139	.2174158	.2708071	.3298605	.3933423	.4596844
36	.0624384	.0866415	.1170038	.1542462	.1982583	.2490263	.3057532	.3675420
37	.0381760	.0548837	.0767768	.1046129	.1389730	.1801675	.2281553	.2824076
38	.0222270	.0331298	.0480134	.0677233	.0930578	.1246808	.1630881	.2082196
39	.0123105	.0190351	.0285948	.0417897	.0594453	.0823697	.1113538	.1468809
40	.0064795	.0103989	.0162060	.0245481	.0361750	.0519064	.0725783	.0989714
41	.0032378	.0053958	.0087268	.0137105	.0209436	.0311325	.0450701	.0635981
42	.0015146	.0026566	.0044607	.0072721	.0115211	.0177585	.0266857	.0388995
43	.0006892	.0012397	.0021619	.0036588	.0060144	.0096112	.0149427	.0228188
44	.0002930	.0005478	.0009924	.0017441	.0029758	.0049339	.0079554	.0128833
45	.0001178	.0002289	.0004309	.0007867	.0013938	.0023985	.0040123	.0065896
46	.0000447	.0000903	.0001768	.0003354	.0006171	.0011026	.0019143	.0032388
47	.0000160	.0000336	.0000685	.0001349	.0002579	.0004786	.0008497	.0015118
48	.0000054	.0000118	.0000250	.0000512	.0001016	.0001989	.0003467	.0006671
49	.0000017	.0000039	.0000086	.0000183	.0000377	.0000755	.0001467	.0002772
50	.0000005	.0000012	.0000028	.0000061	.0000131	.0000273	.0000552	.0001083
51	.0000001	.0000004	.0000008	.0000019	.0000043	.0000093	.0000198	.0000397
52		.0000001	.0000002	.0000006	.0000013	.0000029	.0000064	.0000136
53			.0000001	.0000002	.0000004	.0000009	.0000020	.0000044
54					.0000001	.0000002	.0000006	.0000013
55						.0000001	.0000002	.0000004
56								.0000001

x/p	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	.9999999	1.00000000
15	.9999997	.9999999
16	.9999986	.9999995
17	.9999959	.9999981
18	.9999868	.9999937
19	.9999607	.9999806
20	.9998907	.9999439
21	.9997157	.9998484
22	.9993075	.9996166
23	.9984162	.9990896
24	.9965917	.9979674
25	.9930859	.9957287
26	.9867533	.9915027
27	.9759889	.9840364
28	.9587519	.9718987
29	.9327273	.9520388
30	.8956584	.9230436

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 71

c	.49	.50
31	.8457830	.8824512
32	.7824133	.8287645
33	.7063074	.7616561
34	.6198913	.6833462
35	.5270962	.5937057
36	.4328455	.5000000
37	.3422909	.4062943
38	.2599903	.3176538
39	.1892407	.2383439
40	.1317233	.1712355
41	.0875138	.1175488
42	.0553980	.0769564
43	.0333577	.0479618
44	.0190763	.0284073
45	.0103445	.0159636
46	.0053109	.0084973
47	.0025773	.0042773
48	.0011804	.0020306
49	.0005093	.0009102
50	.0002066	.0003834
51	.0000787	.0001516
52	.0000280	.0000561
53	.0000093	.0000194
54	.0000029	.0000063
55	.0000008	.0000019
56	.0000002	.0000005
57	.0000001	.0000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 72

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.51500086	.76650051	.88842555	.94770911	.97510570	.98838000	.99468D1	.99752980
2	.16230876	.42341050	.63997100	.78833644	.88076950	.93497750	.96546470	.98206460
3	.03580690	.17484200	.36710330	.55385811	.70450970	.81396980	.88756000	.93438390
4	.00599660	.05647600	.17032620	.32531960	.44805030	.63374550	.75073830	.83745870
5	.00080240	.01480630	.06530200	.16125660	.29152800	.43530710	.57309060	.69216090
6	.00008888	.00324090	.02112600	.06822870	.15085940	.26304870	.39132406	.58033050
7	.00000830	.00060520	.00587040	.02503120	.06811050	.14026360	.23839530	.35348070
8	.00000070	.00009810	.00142160	.00803760	.02715970	.06637040	.12992450	.21668460
9		.00001400	.00030370	.00228460	.00961570	.02804810	.06358810	.12003510
10		.00000180	.00005780	.00058000	.00304950	.01065360	.02808190	.06027120
11		.00000020	.00000990	.00013250	.00047230	.00365080	.01124510	.02753100
12			.00000150	.00002740	.00012630	.00110230	.00410220	.01140440
13			.00000020	.00000520	.00005360	.00032580	.00134930	.00439140
14				.00000090	.00001160	.00008530	.00041980	.00154470
15				.00000010	.00000230	.00002050	.00011870	.00050150
16					.00000040	.00000460	.00003100	.00015070
17					.00000010	.00000090	.00000750	.00004200
18						.00000020	.00000170	.00001090
19							.00000040	.00000260
20							.00000010	.00000060
21								.00000010

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.99888754	.99949250	.99977730	.99989940	.99995580	.99998000	.99999170	.99999650
2	.99086760	.99543220	.99775870	.99891130	.99940030	.99975540	.99988650	.99994800
3	.96275230	.97941690	.98800830	.99411280	.99695800	.99845310	.99922720	.99962040
4	.89707070	.93789560	.96332450	.98049020	.99010380	.99535060	.99765120	.99881640
5	.78718000	.85831310	.90002180	.94311000	.96549600	.97961540	.98884880	.99338030
6	.63829480	.73805520	.81720830	.87671070	.91943090	.94886140	.96840730	.98090730
7	.47306660	.58888630	.69076790	.77562300	.84256740	.89295580	.92933290	.95462750
8	.32053800	.43253210	.54342330	.64564270	.73427700	.80714730	.86430430	.90728750
9	.19732760	.29141520	.39545700	.50163040	.60280380	.69365050	.77106480	.83402310
10	.11067400	.17991550	.26541080	.36190220	.46310290	.56226400	.65405850	.73478680
11	.05668220	.10186560	.16414940	.24300160	.33159140	.42751640	.52397490	.61570310
12	.02658490	.05298590	.09360780	.14980290	.22083050	.30387920	.39458690	.48785580
13	.01145350	.02537790	.04920880	.08588540	.13669080	.20156690	.27851840	.36406710
14	.00454660	.01122000	.02400640	.04565770	.07867700	.12469550	.18399280	.25524180
15	.00166740	.00459050	.01083790	.02253980	.04213940	.07195810	.11367100	.16788550
16	.00055690	.00174220	.00454470	.01035030	.02102880	.03877220	.06570370	.10354690
17	.00017900	.00061480	.00177370	.00442080	.00979110	.01951050	.03554390	.05988860
18	.00005260	.00020220	.00064560	.00176880	.00425960	.00911860	.01801160	.03249510
19	.00001440	.00006210	.00021950	.00066050	.00173400	.00405150	.00855790	.01655180
20	.00000370	.00001780	.00006990	.00023100	.00066150	.00167860	.00381640	.00793090
21	.00000090	.00000480	.00002200	.00000750	.00023600	.00065060	.00159910	.00356430
22	.00000020	.00000120	.00000650	.00000230	.00008790	.00023750	.00063020	.00150950
23		.00000030	.00000150	.00000060	.00002520	.00008160	.00023380	.00060220
24		.00000010	.00000040	.00000010	.00000750	.00002640	.00008170	.00022650
25			.00000010	.00000050	.00000210	.00000800	.00002700	.00008040
26				.00000010	.00000060	.00000230	.00000840	.00002690
27					.00000010	.00000060	.00000250	.00000850
28						.00000020	.00000070	.00000250
29							.00000020	.00000070
30								.00000020

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.99999850	.99999940	.99999970	.99999990	1.00000000	1.00000000	1.00000000	1.00000000
2	.99997650	.99998950	.99999540	.99999800	.99999910	.99999960	.99999980	.99999990
3	.99961660	.99991280	.99995920	.99998120	.99999150	.99999620	.99999830	.99999930
4	.99905330	.99951970	.99976090	.99988300	.99994380	.99997340	.99998760	.99999430
5	.99635180	.99803110	.99895860	.99945980	.99972510	.99986260	.99993260	.99996750
6	.98882970	.99358730	.99639930	.99802090	.99893440	.99943770	.99970910	.99985230
7	.97162540	.98269450	.99069550	.99400380	.99650750	.99809940	.99896340	.99944610
8	.94384010	.96014990	.97486900	.98453500	.99070540	.99454020	.99664330	.99823660
9	.88311110	.91994080	.94661190	.96530160	.97800130	.98638390	.99176670	.99513340
10	.80258140	.85717520	.89944780	.93110870	.95398660	.97002480	.98094080	.98816470
11	.69866900	.77037510	.83982420	.88722500	.91376970	.94095590	.96056850	.97430060
12	.57870880	.66290160	.77773450	.82013700	.85351370	.89474380	.92620700	.94966380
13	.45381050	.54311460	.62792790	.74493330	.77209180	.82848060	.87411910	.91001110
14	.33574160	.42173690	.50904900	.59366000	.67219740	.74223480	.80239400	.85227600
15	.23382840	.30942270	.39153280	.47642560	.56029040	.63971200	.71201150	.77544050
16	.15311650	.21409270	.28494620	.36309900	.44526690	.52790090	.60762930	.68163040
17	.09422350	.13954340	.19587730	.26216750	.33634050	.41555210	.49654980	.57607370
18	.05448850	.08563690	.12705420	.17904740	.24095890	.31116780	.38725240	.46683770
19	.02962090	.04948010	.07777630	.11555290	.16348640	.22128690	.28874960	.36033380
20	.01514500	.02692270	.04484110	.07043840	.10495630	.14909250	.20200100	.26524900
21	.00728790	.01380090	.02439940	.04055010	.06372590	.09519170	.13577600	.18056760
22	.00330300	.00666850	.01252620	.02204770	.03658690	.05754660	.08619460	.12345780
23	.00141090	.00303910	.00606990	.01132480	.01984320	.03295350	.05186210	.07779090
24	.00056850	.00130710	.00277760	.00549710	.01019890	.01784030	.02956860	.04663840
25	.00021620	.00053090	.00120090	.00252260	.00491540	.00914930	.01597280	.02647780
26	.00007770	.00020370	.00049080	.00109480	.00227700	.00444290	.00817550	.01482540
27	.00002640	.00007390	.00018970	.00044950	.00099070	.00204320	.00396530	.00727680
28	.00000850	.00002540	.00006940	.00017470	.00040810	.00088010	.00180820	.00350820
29	.00000260	.00000820	.00002400	.00006430	.00015920	.00036740	.00078480	.00161670
30	.00000070	.00000250	.00000790	.00002240	.00005890	.00014370	.00032810	.00070360
31	.00000020	.00000070	.00000240	.00000740	.00002060	.00005330	.00013080	.00029040
32	.00000010	.00000020	.00000070	.00000230	.00000680	.00001870	.00004770	.00011380
33		.00000010	.00000020	.00000070	.00000220	.00000620	.00001680	.00004230
34			.00000010	.00000020	.00000060	.00000200	.00000540	.00001460
35				.00000010	.00000020	.00000060	.00000180	.00000500
36						.00000020	.00000050	.00000160
37							.00000020	.00000050
38								.00000010

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 72$$

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999975	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
5	.9999848	.9999928	.9999967	.9999985	.9999994	.9999997	.9999999	1.0000000
6	.9999265	.9999641	.9999828	.9999919	.9999962	.9999983	.9999998	.9999997
7	.9997100	.9998511	.9999250	.9999630	.9999831	.9999915	.9999960	.9999982
8	.9990295	.9994769	.9997338	.9998571	.9999275	.9999640	.9999825	.9999915
9	.9971066	.9984086	.9991190	.9995224	.9997465	.9998608	.9999329	.9999665
10	.9928193	.9957196	.9975282	.9985969	.9992206	.9995763	.9997745	.9998825
11	.9836448	.9898317	.9938214	.9963295	.9978675	.9987881	.9993261	.9996334
12	.9664097	.9781319	.9860941	.9913595	.9947524	.9960848	.9981909	.9989726
13	.9372059	.9573157	.9715656	.9815346	.9888846	.9927363	.9955981	.9973921
14	.8932769	.9233499	.9467645	.9639001	.9760916	.9845310	.9903217	.9939591
15	.8291624	.8731755	.9081070	.9349990	.9551036	.9697135	.9800422	.9871509
16	.7478148	.8050106	.8528214	.8915405	.9219562	.9451574	.9623583	.9747626
17	.6512145	.7196893	.7709750	.8311322	.8737234	.9076654	.9340546	.9539941
18	.5451436	.6209191	.6812210	.7542027	.8000268	.8547356	.8921660	.9217992
19	.4371084	.5149234	.5909168	.6625520	.7278330	.7854228	.8346620	.8755060
20	.3347593	.4090586	.4854781	.5612537	.6338106	.7009967	.7612358	.8135905
21	.2443509	.3104698	.3921337	.4569603	.5320413	.6051187	.6738161	.7363783
22	.1697281	.2247137	.3074856	.3563332	.4291116	.5033583	.5765624	.6464056
23	.1120650	.1546657	.2063334	.2657066	.3316513	.4022646	.4752725	.5482535
24	.0702302	.1015353	.1410830	.1890898	.2451137	.3080779	.3763441	.4478421
25	.0418433	.0632648	.0918100	.1282576	.1729465	.2256646	.2856000	.3513685
26	.0236436	.0374477	.0568194	.0828361	.1163519	.1578502	.2073233	.2642017
27	.0126772	.0210504	.0334248	.0509053	.0745651	.1053127	.1437500	.1900508
28	.0064493	.0112349	.0186829	.0297494	.0454865	.0669510	.0959094	.1306008
29	.0031130	.0056924	.0099201	.0165270	.0263908	.0405300	.0599551	.0856386
30	.0014257	.0027378	.0050026	.0087253	.0145689	.0233492	.0360048	.0535358
31	.0006195	.0012499	.0023956	.0043765	.0076434	.0127953	.0205818	.0318822
32	.0002554	.0005416	.0010093	.0020853	.0038110	.0066673	.0111938	.0180764
33	.0000999	.0002237	.0004702	.0009436	.0018053	.0033023	.0057098	.0097524
34	.0000371	.0000869	.0001937	.0004055	.0008124	.0015543	.0028469	.0050042
35	.0000131	.0000322	.0000749	.0001654	.0003471	.0006949	.0013303	.0024418
36	.0000044	.0000113	.0000277	.0000640	.0001408	.0002951	.0005905	.0011317
37	.0000014	.0000038	.0000097	.0000235	.0000542	.0001109	.0002489	.0004984
38	.0000004	.0000012	.0000032	.0000082	.0000198	.0000455	.0000996	.0002084
39	.0000001	.0000004	.0000010	.0000027	.0000069	.0000165	.0000370	.0000827
40		.0000001	.0000003	.0000008	.0000023	.0000057	.0000136	.0000311
41			.0000001	.0000003	.0000007	.0000019	.0000046	.0000111
42				.0000001	.0000002	.0000006	.0000015	.0000038
43					.0000001	.0000002	.0000005	.0000012
44							.0000001	.0000004
45								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999961	.9999982	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000
9	.9999836	.9999928	.9999963	.9999983	.9999992	.9999997	.9999999	.9999999
10	.9999401	.9999701	.9999854	.9999930	.9999967	.9999985	.9999993	.9999997
11	.9998048	.9998943	.9999481	.9999741	.9999874	.9999940	.9999972	.9999987
12	.9994294	.9996900	.9998352	.9999143	.9999564	.9999783	.9999895	.9999950
13	.9984893	.9991444	.9995261	.9997434	.9998641	.9999297	.9999644	.9999824
14	.9963524	.9978472	.9987579	.9993995	.9996139	.9997919	.9998904	.9999436
15	.9919148	.9950309	.9970148	.9982473	.9989944	.9994362	.9996912	.9998347
16	.9834694	.9894212	.9933854	.9959589	.9975878	.9985932	.9991985	.9995540
17	.9686470	.9791261	.9864232	.9913729	.9946447	.9967525	.9980765	.9988873
18	.9445979	.9616556	.9740740	.9823755	.9889108	.9930362	.9957134	.9974432
19	.9084047	.9341558	.9537559	.9682705	.9787330	.9860765	.9910969	.9944406
20	.8577399	.8938929	.9226618	.9449218	.9616777	.9739531	.9827084	.9887695
21	.7916110	.8389280	.8782930	.9101176	.9351337	.9542623	.9684960	.9788059
22	.7109591	.7688139	.8191345	.8616404	.8965316	.9243783	.9459959	.9623850
23	.6188715	.6850827	.7452498	.7984471	.8439759	.8819185	.9126480	.9368546
24	.5202702	.5913126	.6588495	.7211283	.7768758	.8253451	.8662986	.8999409
25	.4211171	.4926882	.5638207	.6323554	.6964178	.7545524	.8057974	.8496972
26	.3273507	.3951397	.4655754	.5364608	.6056919	.6712453	.7315297	.7853653
27	.2413653	.3042991	.3699463	.4389928	.5093777	.5789460	.6456957	.7078813
28	.1738096	.2345714	.2822179	.3455668	.4129949	.4825666	.5522007	.6198520
29	.1233550	.1785631	.2062993	.2611001	.3220270	.3876306	.4561330	.5255349
30	.0769139	.1069704	.1442755	.1890269	.2409675	.2993475	.3628435	.4301336
31	.0476578	.0688752	.0964059	.1309115	.1727317	.2217914	.2775453	.3389725
32	.0281349	.0422868	.0614836	.0866219	.1184365	.1573899	.2035726	.2536334
33	.0158147	.0247374	.0373907	.0547023	.0775805	.1068165	.1429778	.1863020
34	.0084593	.0137791	.0216656	.0329389	.0484958	.0692449	.0960180	.1294687
35	.0043038	.0073038	.0119531	.0188967	.0289084	.0428307	.0615797	.0860078
36	.0020816	.0036820	.0062750	.0103209	.0164088	.0252537	.0376746	.0545505
37	.0009567	.0017645	.0031327	.0053630	.0088675	.0141815	.0219664	.0329963
38	.0004176	.0008073	.0014863	.0026496	.0045582	.0075787	.0121949	.0190153
39	.0001730	.0003473	.0006699	.0012438	.0022271	.0038513	.0064408	.0104304
40	.0000680	.0001425	.0002866	.0005544	.0010336	.0018596	.0032336	.0054409
41	.0000254	.0000555	.0001163	.0002345	.0004553	.0008526	.0015419	.0026967
42	.0000090	.0000205	.0000448	.0000941	.0001902	.0003708	.0006977	.0012688
43	.0000030	.0000071	.0000163	.0000357	.0000753	.0001529	.0002994	.0005668
44	.0000009	.0000024	.0000056	.0000129	.0000282	.0000597	.0001217	.0002394
45	.0000003	.0000007	.0000018	.0000044	.0000100	.0000221	.0000468	.0000958
46	.0000001	.0000002	.0000006	.0000014	.0000034	.0000077	.0000170	.0000363
47		.0000001	.0000003	.0000004	.0000011	.0000025	.0000058	.0000130
48				.0000001	.0000003	.0000008	.0000019	.0000044

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 72

%p	.33	.34	.35	.36	.37	.38	.39	.40
49					.0000001	.0000002	.0000006	.0000014
50						.0000001	.0000003	.0000009
51								.0000001

%p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999977	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
13	.9999915	.9999960	.9999982	.9999992	.9999996	.9999998	.9999999	1.0000000
14	.9999717	.9999861	.9999933	.9999969	.9999986	.9999994	.9999997	.9999999
15	.9999136	.9999559	.9999780	.9999893	.9999949	.9999977	.9999989	.9999995
16	.9997576	.9998714	.9999334	.9999663	.9999834	.9999920	.9999963	.9999983
17	.9993715	.9996534	.9998135	.9999020	.9999498	.9999749	.9999878	.9999948
18	.9984875	.9991334	.9995154	.9997356	.9998593	.9999270	.9999631	.9999818
19	.9966106	.9979828	.9988283	.9993360	.9996330	.9998082	.9998961	.9999468
20	.9929035	.9956147	.9973552	.9984436	.9991067	.9995000	.9997873	.9998551
21	.9860769	.9910704	.9944102	.9965856	.9979655	.9988179	.9993305	.9996306
22	.9743301	.9839220	.9890049	.9929706	.9956536	.9973791	.9984593	.9991174
23	.9554067	.9692435	.9798483	.9863862	.9912687	.9945378	.9966683	.9980193
24	.9286193	.9477107	.9635107	.9751396	.9834694	.9892762	.9932155	.9958159
25	.8962600	.9158754	.9398101	.9570988	.9704410	.9801251	.9869648	.9916631
26	.8581443	.8716135	.9040126	.9298814	.9499746	.9651581	.9763204	.9843033
27	.7641645	.8136738	.8560138	.8912246	.9197043	.9421106	.9592560	.9720883
28	.6836811	.7421926	.7943233	.8394777	.8775094	.9086617	.9334795	.9527086
29	.5937951	.6590036	.7195294	.7741340	.8220358	.8638666	.8967399	.9240564
30	.4990234	.5676038	.6339814	.6962365	.7531496	.8056826	.8473076	.8839888
31	.4046865	.4727375	.5413546	.6085092	.6723767	.7314172	.7844758	.8308355
32	.3157520	.3796651	.4467448	.5151220	.5808395	.6480141	.7089058	.7644366
33	.2357216	.2931124	.3552990	.4211094	.4889781	.5569850	.6232138	.6859072
34	.1699685	.2175169	.2716402	.3315737	.3958924	.4629932	.5310176	.5980421
35	.1166366	.1545589	.1993229	.2508787	.3085318	.3711515	.4372352	.5050085
36	.0767533	.1050610	.1400587	.1800408	.2300273	.2862100	.3469413	.4217704
37	.0481336	.0683230	.0941088	.1364516	.1656694	.2118426	.2646451	.3233137
38	.0287661	.0422664	.0603017	.0839548	.1137147	.1502047	.1936379	.2436602
39	.0163762	.0249549	.0369471	.0532005	.0745709	.1018436	.1356404	.1763235
40	.0088702	.0140361	.0218349	.0321344	.0466466	.0659287	.0908025	.1219680
41	.0045669	.0074971	.0119428	.0184790	.0277978	.0406085	.0579989	.0805742
42	.0022329	.0038071	.0062951	.0101050	.0157612	.0239073	.0352946	.0507520
43	.0010358	.0018348	.0031504	.0052487	.0084924	.0133562	.0204337	.0304335
44	.0004554	.0008384	.0014953	.0025865	.0043432	.0070855	.0113394	.0173483
45	.0001896	.0003628	.0006724	.0012079	.0021057	.0035648	.0058656	.0093674
46	.0000747	.0001485	.0002861	.0005340	.0009666	.0016987	.0029004	.0048150
47	.0000278	.0000575	.0001150	.0002231	.0004196	.0007656	.0013570	.0023376
48	.0000097	.0000210	.0000437	.0000880	.0001720	.0003259	.0005998	.0010726
49	.0000032	.0000072	.0000156	.0000327	.0000665	.0001309	.0002501	.0004644
50	.0000010	.0000023	.0000053	.0000115	.0000248	.0000495	.0000982	.0001894
51	.0000003	.0000007	.0000017	.0000038	.0000083	.0000176	.0000363	.0000736
52	.0000001	.0000002	.0000005	.0000012	.0000027	.0000059	.0000126	.0000261
53		.0000001	.0000001	.0000003	.0000008	.0000018	.0000041	.0000088
54				.0000001	.0000002	.0000005	.0000013	.0000028
55					.0000001	.0000001	.0000003	.0000008
56							.0000001	.0000002
57								.0000001

%p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	.9999998	.9999999
16	.9999998	.9999997
17	.9999993	.9999988
18	.9999973	.9999959
19	.9999735	.9999872
20	.9999250	.9999622
21	.9998018	.9998961
22	.9995076	.9997325
23	.9988589	.9993532
24	.9974857	.9985386
25	.9944037	.9966451
26	.9889563	.9934127
27	.9810633	.9877693
28	.9671980	.9778145
29	.9454794	.9616154

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 72

x	.49	.50
30	.9138191	.9375409
31	.8702190	.9027474
32	.8134644	.8556079
33	.7435993	.7952103
34	.6628358	.7220011
35	.5728658	.6380259
36	.4790883	.5468538
37	.3866626	.4531472
38	.3003176	.3619741
39	.2239060	.2779969
40	.1599068	.2047897
41	.1091764	.1443921
42	.0711347	.0972526
43	.0441575	.0624591
44	.0260742	.0381646
45	.0146231	.0221855
46	.0077773	.0122305
47	.0039168	.0063873
48	.0018649	.0031549
49	.0008381	.0014714
50	.0003549	.0006468
51	.0001414	.0002675
52	.0000588	.0001039
53	.0000185	.0000378
54	.0000061	.0000128
55	.0000018	.0000041
56	.0000005	.0000012
57	.0000001	.0000003
58		.0000001

$$P(x,n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x} \qquad n = 25$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.5189n505	.7711750	.0017708	.9492075	.9763504	.9890772	.9949967	.9977278
2	.1650140	.4303784	.6474346	.7904154	.8654863	.9301017	.9675055	.9833010
3	.0370717	.1780133	.3753670	.5609784	.7135887	.8431303	.9190193	.9581431
4	.0063947	.0598435	.1768319	.3344501	.4988733	.6445590	.7803188	.8838079
5	.0008541	.0156397	.0684587	.1678192	.3013541	.4472134	.6055860	.7637847
6	.0000960	.0034732	.0284581	.0780064	.1578220	.2733814	.4033701	.5340769
7	.0000091	.0006579	.0093881	.0367615	.0723194	.1476305	.2490945	.3668867
8	.0000068	.0001083	.0015551	.0087174	.0289110	.0708040	.1375174	.2276383
9	.0000001	.0000157	.0003372	.0015147	.0104929	.0303475	.0688317	.1377671
10		.0000020	.0000652	.0006468	.0033778	.0116973	.0305674	.0650524
11		.0000022	.0000113	.0001504	.0009811	.0040765	.0184837	.0301509
12			.0000018	.0000316	.0003587	.0013931	.0066023	.0127688
13			.0000003	.0000061	.0000686	.0003740	.0015606	.0049588
14				.0000011	.0000137	.0000997	.0004863	.0017784
15				.0000002	.0000028	.0000244	.0001398	.0005849
16					.0000005	.0000055	.0000378	.0001788
17					.0000001	.0000012	.0000092	.0000507
18						.0000002	.0000021	.0000134
19							.0000005	.0000033
20							.0000001	.0000008
21								.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9905727	.9954418	.9979979	.9991114	.9996416	.9998635	.9999530	.9999270
2	.9915803	.9958383	.9979749	.9990899	.9995481	.9997870	.9999023	.9999558
3	.9858007	.9810104	.9898634	.9947008	.9972859	.9986359	.9993261	.9996708
4	.9037101	.9430477	.9661365	.9807355	.9893071	.9941990	.9964197	.9983974
5	.7971421	.8662714	.9140171	.9474059	.9684488	.9815608	.9894883	.9941458
6	.6516944	.7500010	.8078850	.8846857	.9054194	.9531670	.9713906	.9827708
7	.4886650	.6037672	.7046764	.7877545	.8525597	.9007826	.9351953	.9580451
8	.3343776	.4401616	.5596312	.6612403	.7483540	.8171605	.8740586	.9148619
9	.2084165	.3055269	.4117240	.5189110	.6198963	.7095400	.7850508	.8437454
10	.1184799	.1910654	.2797159	.3787400	.4813640	.5806581	.6716094	.7506644
11	.0615415	.1096706	.1758888	.2564081	.3486879	.4463811	.5434874	.6347563
12	.0289937	.0578739	.1013674	.1608679	.2552894	.3311884	.4139951	.5083114
13	.0124154	.0281267	.0541633	.0933555	.1476359	.2158907	.2959884	.3828753
14	.0051683	.0126354	.0267873	.0504850	.0868198	.1354575	.1931632	.2786539
15	.0019369	.0052854	.0122865	.0253139	.0488893	.0793413	.1242229	.1918685
16	.0006660	.0020871	.0053370	.0118131	.0267732	.0434096	.0728997	.1238411
17	.0002139	.0007376	.0022788	.0051394	.0138500	.0222057	.0400474	.0760739
18	.0000640	.0002434	.0008697	.0020980	.0067787	.0106320	.0206415	.0436781
19	.0000179	.0000761	.0002661	.0007935	.0030603	.0047704	.0099760	.0231027
20	.0000047	.0000222	.0000763	.0002825	.0012809	.0020082	.0045877	.0093018
21	.0000011	.0000061	.0000202	.0000941	.0004980	.0007941	.0019317	.0034613
22	.0000003	.0000015	.0000075	.0000296	.0001000	.0003253	.0007755	.0018382
23	.0000001	.0000004	.0000020	.0000087	.0000303	.0001034	.0002933	.0007473
24		.0000001	.0000005	.0000024	.0000098	.0000341	.0001045	.0002866
25			.0000001	.0000006	.0000028	.0000106	.0000358	.0001037
26				.0000002	.0000008	.0000031	.0000119	.0000355
27					.0000002	.0000009	.0000034	.0000125
28						.0000002	.0000010	.0000035
29						.0000001	.0000003	.0000010
30							.0000001	.0000003
31								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999803	.9999913	.9999968	.9999984	.9999993	.9999997	.9999999	1.0000000
3	.9998438	.9999266	.9999660	.9999845	.9999931	.9999969	.9999987	.9999994
4	.9991888	.9995904	.9997986	.9999027	.9999538	.9999784	.9999901	.9999955
5	.9968109	.9983991	.9991111	.9995445	.9997710	.9998870	.9999453	.9999740
6	.9901086	.9943872	.9968855	.9983067	.9991005	.9995312	.9997605	.9998800
7	.9745501	.9846552	.9909693	.9948072	.9970864	.9986398	.9991349	.9995436
8	.9440494	.9643080	.9776860	.9864288	.9919407	.9953838	.9973464	.9985869
9	.8935104	.9271784	.9519007	.9691483	.9846691	.9901781	.9929369	.9958782
10	.8162715	.8684710	.9084333	.9379473	.9730397	.9736338	.9854308	.9898371
11	.7163341	.7959991	.8430584	.8800538	.9328152	.9473510	.9652542	.9776879
12	.5991000	.6983134	.7552315	.8165472	.8661674	.9049104	.9341586	.9555468
13	.4750433	.5947165	.6487912	.7242307	.7891904	.8430632	.8861698	.9195181
14	.3558133	.4935906	.5316360	.6159147	.6931752	.7612102	.8189074	.8611324
15	.2511537	.3963543	.4138609	.4998725	.5837908	.6622671	.7328039	.7938610
16	.1668376	.3125521	.3051977	.3857643	.4694219	.5524993	.6316379	.7041372
17	.1048353	.1520685	.2138004	.2803538	.3593150	.4402688	.5220900	.6014048
18	.0612435	.0953401	.1401306	.1956714	.2609800	.3341393	.4183900	.4986880
19	.0338484	.0559804	.0870986	.1302518	.1797557	.2409985	.3104406	.3957602
20	.0176059	.0309831	.0510893	.0794613	.1172477	.1649377	.2228088	.3000694
21	.0086236	.0161639	.0283833	.0465277	.0723843	.1070498	.1511939	.2047751
22	.0039804	.0079524	.0147021	.0257482	.0422861	.0658285	.0975903	.1303902
23	.0017306	.0036914	.0072966	.0134694	.0233752	.0383476	.0597587	.0808397
24	.0007117	.0016169	.0034031	.0066627	.0122284	.0211406	.0346961	.0541431
25	.0002761	.0006706	.0015005	.0031175	.0060554	.0110613	.0190998	.0313165
26	.0001018	.0002626	.0006357	.0013803	.0028392	.0054703	.0099689	.0171878
27	.0000361	.0000973	.0002469	.0005786	.0013608	.0025711	.0049337	.0089309
28	.0000115	.0000341	.0000929	.0002297	.0005305	.0011438	.0023155	.0044830
29	.0000036	.0000113	.0000326	.0000864	.0002115	.0004824	.0010308	.0021740
30	.0000010	.0000036	.0000109	.0000308	.0000799	.0001939	.0004353	.0009829
31	.0000003	.0000011	.0000035	.0000104	.0000287	.0000730	.0001744	.0003896
32	.0000001	.0000003	.0000010	.0000033	.0000097	.0000263	.0000663	.0001568
33		.0000001	.0000003	.0000010	.0000031	.0000090	.0000239	.0000594
34			.0000001	.0000003	.0000010	.0000029	.0000080	.0000215
35				.0000001	.0000003	.0000009	.0000027	.0000074
36					.0000001	.0000003	.0000008	.0000024
37						.0000001	.0000002	.0000007
38							.0000001	.0000002
39								.0000001

$$B(x,n,p) = \sum_{k=x}^{n} \binom{n}{k} p^k (1-p)^{n-k}$$

n = 75

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999900	.99999941	.99999976	.99999990	.99999999	1.00000000	1.00000000	1.00000000
5	.99998078	.99999944	.99999995	.99999999	.99999999	.99999999	1.00000000	1.00000000
6	.99994410	.99997715	.99999169	.99999737	.99999971	.99999997	.99999994	.99999998
7	.99987641	.99998005	.99999400	.99999911	.99999988	.99999995	.99999970	.99999987
8	.99971998	.99995210	.99997801	.99999867	.99999955	.99999998	.99999967	.99999987
9	.99936473	.99988864	.99996085	.99998161	.99999860	.99999969	.99999880	.99999945
10	.99859104	.99964536	.99989579	.99995561	.99998711	.99996639	.99998916	.99999094
11	.99693808	.99913677	.99968231	.99989644	.99996599	.99999045	.99994651	.99997131
12	.99387184	.99811730	.99927511	.99968558	.99990142	.99997553	.99985498	.99991841
13	.98845068	.99608687	.99854883	.99928856	.99971608	.99989807	.99964018	.99978978
14	.98035091	.99281600	.99744008	.99858177	.99934932	.99968332	.99910883	.99955576
15	.96929410	.98752200	.99585445	.99730913	.99866901	.99911901	.99819780	.99893895
16	.95481517	.98071135	.99366485	.99537089	.99745690	.99758948	.99678403	.99781869
17	.93753445	.97118728	.99066435	.99261905	.99577109	.99489288	.99488888	.99606400
18	.91716611	.95866141	.98665151	.98876846	.99347146	.99051516	.99101016	.99310184
19	.89411178	.94284875	.98139909	.98460142	.99040166	.98524883	.98031998	.98903198
20	.86834465	.92358474	.97469465	.97896172	.98640771	.97863245	.97359979	.98134035
21	.84009550	.90161177	.96630169	.97169204	.98135644	.97038779	.96509162	.97018868
22	.80953858	.87670303	.95600406	.96258613	.97513046	.96067110	.95451949	.95719499
23	.77684888	.84873468	.94362445	.95143880	.96762148	.94959027	.94206723	.94179628
24	.74223007	.81760462	.92902006	.93807005	.95871148	.93725119	.92792118	.92478138
25	.70589585	.78324151	.91208151	.92234137	.94829008	.92381747	.91225306	.90632401
26	.66811935	.74616601	.89273669	.90415541	.93627643	.90945245	.89515891	.88660981
27	.62915186	.70653131	.87094113	.88343459	.92260832	.89429739	.87677483	.86557791
28	.58930063	.66466331	.84670469	.86015731	.90725193	.87846601	.85721751	.84362428
29	.54891471	.62097335	.82008460	.83434093	.89019330	.86206470	.83660865	.82102168
30	.50835475	.57593163	.79127903	.80606295	.87144556	.84519294	.81506087	.79803087
31	.46799210	.53004464	.76051067	.77546881	.85104199	.82793629	.79268113	.77490113
32	.42819845	.48384357	.72811146	.74274349	.82904150	.81037199	.76956508	.75187508
33	.38933691	.43786000	.69449349	.70813675	.80552718	.79256688	.74578511	.72918511
34	.35176000	.39261000	.66013125	.67201290	.78060352	.77457570	.72138459	.70704459
35	.31579191	.34857676	.62555561	.63485881	.75440289	.75643211	.69638211	.68564211
36	.28171045	.30619404	.59133726	.59717884	.72707211	.73815199	.67076508	.66514508
37	.24975357	.26583057	.55807404	.55944349	.69877794	.71972811	.64449150	.64550150
38	.22010019	.22750050	.52637125	.52195794	.66969007	.70110354	.61759868	.62677011
39	.19287000	.19156016	.49683675	.48502794	.64000675	.68221459	.59018128	.60877011
40	.16810000	.15806006	.46999043	.44900106	.60995352	.66297570	.56232889	.59128889
41	.14574001	.12707057	.44625010	.41406036	.57977089	.64328211	.53417476	.57437476
42	.12564001	.10055057	.42592004	.38054211	.54972974	.62301974	.50592175	.55792175
43	.10757000	.07855019	.40916148	.34866349	.52010813	.60206925	.47781061	.54181061
44	.09124000	.06078050	.39600125	.31858794	.49119920	.58030355	.45010920	.52590920
45	.07630000	.04687000	.38630050	.29042668	.46329048	.55760570	.42310002	.50999002
46	.06241000	.03636006	.37977000	.26423618	.43665289	.53387211	.39708476	.49384476
47	.04918000	.02870005	.37600000	.23999211	.41152211	.50902476	.37233475	.47727475
48	.03625000	.02333000	.37450000	.21760000	.38809000	.48302000	.34907000	.46000000
49	.02344000	.01971000	.37477000	.19693000	.36650000	.45586000	.32744000	.44184000
50	.01075000	.01736000	.37640000	.17784000	.34683000	.42760000	.30750000	.42274000
51	.00000000	.01600000	.37900000	.16016000	.32908000	.39835000	.28923000	.40268000
52		.01538000	.38224000	.14372000	.31320000	.36829000	.27254000	.38168000
53		.01525000	.38580000	.12835000	.29907000	.33765000	.25728000	.35982000
54		.01538000	.38940000	.11387000	.28650000	.30674000	.24326000	.33728000
55		.01554000	.39280000	.10012000	.27525000	.27593000	.23028000	.31435000
56		.01554000	.39580000	.08696000	.26506000	.24564000	.21810000	.29140000
57		.01525000	.39825000	.07427000	.25566000	.21630000	.20648000	.26885000
58		.01460000	.39999000	.06196000	.24677000	.18837000	.19515000	.24715000
59		.01360000	.40090000	.04997000	.23810000	.16227000	.18386000	.22677000
60		.01230000	.40090000	.03827000	.22936000	.13837000	.17232000	.20818000
61			.40000001	.02690004	.22026000	.11702000	.16026000	.19184000
62				.01600001	.21054000	.09847000	.14744000	.17778000
63				.00600000	.20000000	.08284000	.13384000	.16615000
64					.18850000	.07020000	.11960000	.15700000
65					.17600000	.05960000	.10500000	.14960000
66						.05000000	.09000000	.14400000

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	.99999994	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	.99999971	.99999987	.99999994	.99999997	.99999999	1.00000000	1.00000000	1.00000000
9	.99999877	.99999943	.99999973	.99999988	.99999995	.99999998	1.00000000	1.00000000
10	.99999544	.99999776	.99999892	.99999949	.99999977	.99999991	.99999998	1.00000000
11	.99998494	.99999327	.99999619	.99999809	.99999908	.99999957	.99999980	.99999991
12	.99995533	.99997604	.99998747	.99999359	.99999679	.99999843	.99999925	.99999965
13	.99987995	.99993299	.99996343	.99998041	.99998981	.99999488	.99999729	.99999854
14	.99970576	.99989868	.99990068	.99994593	.99997064	.99998443	.99999193	.99999601
15	.99933806	.99959884	.99976849	.99986861	.99992836	.99995714	.99997689	.99998783
16	.99868571	.99913285	.99946556	.99967807	.99981082	.99989136	.99993907	.99996663
17	.99755384	.99826264	.99888590	.99930819	.99957336	.99974820	.99985141	.99992540
18	.99585341	.99675956	.99783961	.99869346	.99910575	.99944484	.99966360	.99980088
19	.99303405	.99435057	.99606573	.99773506	.99843136	.99887217	.99928873	.99963536
20	.98744593	.99075835	.99334448	.99633074	.99749882	.99785600	.99859799	.99910500
21	.98114335	.98576160	.98938321	.99446471	.99617444	.99740388	.99827994	.99891794
22	.97375743	.97986527	.98398400	.99209922	.99381144	.99537348	.99647709	.99689174
23	.96498604	.97135513	.97711354	.98921639	.99034215	.99280532	.99356537	.99470488
24	.95388106	.96231944	.96910036	.98579559	.98617029	.98956430	.98943749	.99147064
25	.94038376	.95168205	.95976808	.98183197	.98161873	.98514856	.98393939	.98697647
26	.92480936	.93980660	.94994613	.97729550	.97629020	.97903605	.97604941	.98117401
27	.90714155	.92551849	.93931164	.97214005	.97011644	.97183044	.97121709	.97350899
28	.88696280	.90916788	.92716388	.96633202	.96309972	.96366974	.96548637	.96450637
29	.86366550	.88810060	.91332708	.95981038	.95515132	.95437062	.95859994	.95436617
30	.83685895	.86453130	.89659838	.95251761	.94620595	.94388951	.95063874	.94089941
31	.80573101	.83818276	.87731603	.94438330	.93579769	.93210627	.93106506	.92543370
32	.76945774	.80813269	.85537064	.93532662	.92385257	.91846454	.91324820	.90456490
33	.72719803	.77437042	.83067232	.92526972	.91028344	.90260974	.89426974	.88143446
34	.67810866	.73702449	.80321693	.91412737	.89500572	.88435821	.87351381	.85620000
35	.62086751	.69629654	.77302519	.90181694	.87793519	.86358689	.85010106	.82903728
36	.55438149	.65244134	.74023603	.88825603	.85899330	.84018315	.82389430	.79971334
37	.47813279	.60584165	.70506385	.87335485	.83810469	.81403869	.79469986	.76616180
38	.39185955	.55695305	.66781301	.85701525	.81519846	.78504877	.76230058	.72846077
39	.29552538	.50630524	.62895556	.83913499	.79021506	.75309877	.72649844	.68674844
40	.18931037	.45449207	.58901026	.81961792	.76310792	.71808165	.68708844	.64074547
41	.07360394	.40216850	.54864497	.79837693	.73384353	.68000014	.64387944	.59037944
42	.00000144	.34999324	.50856690	.77533539	.70240539	.63885539	.59700400	.53618400
43	.00000050	.29866117	.46950263	.75042567	.66879378	.59475357	.54847773	.47833773
44	.00000016	.24886040	.43218567	.72359547	.63303457	.54784547	.49737137	.41713137
45	.00000005	.20126015	.39735032	.69480738	.59516911	.49833916	.44403537	.35299537
46	.00000001	.00000004	.00000010	.00000025	.00000058	.00000130	.00000286	.00000601

N \ x	.33	.34	.35	.36	.37	.38	.39	.40
47		.0000001	.0000001	.0000008	.0000015	.0000045	.0000100	.0000221
48			.0000001	.0000002	.0000006	.0000015	.0000034	.0000078
49				.0000001	.0000002	.0000004	.0000011	.0000026
50						.0000001	.0000003	.0000008
51							.0000001	.0000002
52								.0000001

N \ x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999984	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999940	.9999978	.9999991	.9999998	.9999999	1.0000000	1.0000000	1.0000000
14	.9999748	.9999913	.9999964	.9999991	.9999998	.9999999	1.0000000	1.0000000
15	.9999374	.9999686	.9999846	.9999926	.9999964	.9999984	.9999993	.9999997
16	.9998818	.9999869	.9999546	.9999765	.9999896	.9999948	.9999975	.9999989
17	.9995898	.9997450	.9998650	.9999303	.9999649	.9999828	.9999918	.9999962
18	.9988499	.9993510	.9996436	.9998088	.9999000	.9999590	.9999748	.9999898
19	.9973801	.9984660	.9991337	.9995110	.9997348	.9998596	.9999076	.9999636
20	.9944834	.9966099	.9979806	.9988368	.9993435	.9996390	.9998068	.9999091
21	.9880756	.9929790	.9956765	.9974031	.9984790	.9991317	.9995170	.9997183
22	.9791463	.9861444	.9913744	.9944618	.9966943	.9980409	.9989818	.9995368
23	.9634651	.9744885	.9834351	.9892834	.9931419	.9958448	.9975100	.9988544
24	.9385401	.9567545	.9702951	.9800881	.9869791	.9916965	.9948383	.9968736
25	.9028897	.9302462	.9498594	.9650364	.9763030	.9843346	.9899093	.9936564
26	.8543317	.8900915	.9191475	.9411856	.9521845	.9700430	.9813830	.9875360
27	.7920168	.8380084	.8766533	.9008316	.9211259	.9527125	.9697773	.9779178
28	.7166703	.7728147	.8208508	.8529463	.8864971	.9240402	.9455954	.9619990
29	.6306404	.6939428	.7516900	.8008858	.8469934	.8839334	.9140075	.9378095
30	.5377796	.6059916	.6709389	.7385714	.7941459	.8309001	.8705408	.9031898
31	.4413008	.5185811	.5811504	.6721092	.7287245	.7646592	.8110880	.8566300
32	.3501905	.4361755	.4951888	.6056213	.6631513	.6981795	.7444652	.7955000
33	.2696681	.3695805	.4146207	.5434750	.5993157	.6353504	.6815286	.7356013
34	.1973963	.2949510	.3376361	.4700694	.5277810	.5583994	.5943490	.6602173
35	.1346219	.1810013	.2504368	.3963844	.4478438	.4733906	.4811189	.5696646
36	.0911883	.1265501	.1655401	.3193305	.3650491	.3850811	.3893794	.4565241
37	.0590610	.0836943	.1138673	.1509109	.1950355	.2460516	.3013843	.3457709
38	.0367037	.0531670	.0748043	.1036514	.1370970	.1785501	.2276113	.2644031
39	.0214561	.0322357	.0470840	.0667304	.0921878	.1240897	.1688998	.2067450
40	.0119477	.0186162	.0281691	.0414015	.0598186	.0824495	.1218763	.1480586
41	.0063313	.0100393	.0160674	.0244874	.0368798	.0539090	.0834166	.1004438
43	.0031899	.0053569	.0087336	.0137096	.0211777	.0316286	.0496636	.0650666
43	.0015306	.0028631	.0045026	.0073865	.0117634	.0183097	.0294183	.0401864
44	.0006934	.0014569	.0022070	.0037579	.0060103	.0099700	.0155607	.0236298
45	.0002986	.0008625	.0010362	.0018145	.0031126	.0051843	.0084913	.0131087
46	.0001218	.0003365	.0004582	.0008305	.0014790	.0026571	.0045940	.0070097
47	.0000470	.0000957	.0001886	.0003599	.0006657	.0011948	.0020824	.0033867
48	.0000171	.0000343	.0000744	.0001475	.0002834	.0005282	.0009557	.0016796
49	.0000059	.0000110	.0000277	.0000571	.0001139	.0002054	.0004145	.0007363
50	.0000019	.0000044	.0000097	.0000208	.0000438	.0000869	.0001695	.0003154
51	.0000006	.0000014	.0000032	.0000078	.0000154	.0000321	.0000654	.0001287
52	.0000002	.0000004	.0000010	.0000023	.0000052	.0000113	.0000237	.0000485
53		.0000001	.0000003	.0000007	.0000016	.0000037	.0000081	.0000171
54			.0000001	.0000002	.0000005	.0000011	.0000026	.0000057
55				.0000001	.0000001	.0000003	.0000008	.0000018
56						.0000001	.0000002	.0000005
57							.0000001	.0000001

N \ x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	.9999999	.9999999
16	.9999995	.9999998
17	.9999983	.9999992
18	.9999943	.9999974
19	.9999823	.9999915
20	.9995488	.9999747
21	.9990680	.9999298
22	.9996516	.9998143
23	.9991737	.9995429
24	.9981557	.9989409
25	.9961179	.9976859
26	.9922805	.9952869
27	.9854739	.9906911

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 73

c \ p	.49	.50
28	.2740901	.9827920
29	.9561215	.9698150
30	.9293326	.9496782
31	.8915831	.9201442
32	.8412742	.8791776
33	.7778332	.8254091
34	.7021036	.7586057
35	.6165038	.6800135
36	.5248617	.5924394
37	.4319218	.5000000
38	.3426266	.4075606
39	.2613487	.3199865
40	.1912674	.2413943
41	.1340343	.1745909
42	.0897752	.1208224
43	.0573763	.0798558
44	.0349350	.0503218
45	.0202341	.0301850
46	.0111317	.0172000
47	.0058084	.0093089
48	.0028703	.0047711
49	.0013418	.0023131
50	.0005917	.0010591
51	.0002460	.0004571
52	.0000963	.0001857
53	.0000353	.0000708
54	.0000122	.0000253
55	.0000039	.0000085
56	.0000012	.0000026
57	.0000003	.0000008
58	.0000001	.0000002
59		.0000001

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 24

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.5246600	.7757515	.8950146	.9512392	.9775329	.9897326	.9953465	.9979093
2	.1693553	.4370904	.6547551	.8000932	.8900495	.9412354	.9694299	.9844558
3	.0383591	.1848225	.3835287	.5722421	.7219309	.8282474	.8982278	.9417558
4	.0066925	.0613627	.1822060	.3435910	.5095950	.6551593	.7696046	.8526427
5	.0009087	.0165038	.0716861	.1744044	.3112301	.4590542	.5977615	.7150786
6	.0001035	.0037155	.0248321	.0758389	.1650659	.2838113	.4166790	.5476536
7	.0000100	.0007142	.0068118	.0285713	.0765981	.1551756	.2599358	.3802085
8	.0000008	.0001192	.0016983	.0094391	.0313664	.0784136	.1453270	.2387643
9	.0000001	.0000175	.0003737	.0027628	.0114288	.0327749	.0739817	.1357560
10		.0000023	.0000733	.0007228	.0037335	.0128163	.0338039	.0700695
11		.0000003	.0000129	.0001703	.0011010	.0045357	.0136938	.0329424
12			.0000021	.0000364	.0003248	.0014604	.0051498	.0141587
13			.0000003	.0000071	.0000721	.0004299	.0017735	.0055836
14				.0000013	.0000142	.0001162	.0005615	.0020273
15				.0000002	.0000025	.0000289	.0001640	.0006798
16					.0000006	.0000067	.0000443	.0002119
17					.0000001	.0000014	.0000111	.0000610
18						.0000003	.0000026	.0000164
19						.0000001	.0000006	.0000041
20							.0000001	.0000010
21								.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9990688	.9995889	.9998202	.9999221	.9999665	.9999858	.9999940	.9999975
2	.9932533	.9966208	.9981754	.9991357	.9995967	.9998145	.9999159	.9999624
3	.9676502	.9825004	.9907557	.9952215	.9975782	.9987967	.9994125	.9997[illegible]
4	.9099516	.9459448	.9687465	.9824115	.9903443	.9948201	.9972807	.9986014
5	.8067332	.8738490	.9204622	.9514055	.9711552	.9833296	.9906030	.9949260
6	.6647847	.7617000	.8369142	.8922121	.9310124	.9571420	.9741053	.9847563
7	.5033378	.6183995	.7181634	.7993062	.8620314	.9001164	.9406246	.9627051
8	.3489271	.4637238	.5755862	.6764220	.7619014	.8305877	.8832291	.9218998
9	.2197494	.3197906	.4280027	.5359911	.6365950	.7544961	.8184019	.8569040
10	.1265678	.2025116	.2942379	.3955606	.4993861	.6697115	.7386256	.7853775
11	.0666653	.1178101	.1867752	.2710879	.3698220	.4851799	.5627057	.6533018
12	.0321060	.0630535	.1094947	.1723327	.2499790	.3387154	.4534190	.5285426
13	.0142984	.0311122	.0593557	.1016340	.1590231	.2306323	.3436386	.4037834
14	.0058545	.0141841	.0297987	.0556535	.0943039	.1467101	.2120280	.2904490
15	.0022106	.0059217	.0138815	.0283345	.0520023	.0871976	.1353139	.1963992
16	.0007794	.0023497	.0060194	.0134332	.0267783	.0484400	.0805981	.1247245
17	.0002546	.0008575	.0024250	.0059402	.0128797	.0251742	.0449926	.0743887
18	.0000775	.0002918	.0009136	.0024542	.0057942	.0122523	.0235554	.0411774
19	.0000220	.0000928	.0003217	.0009688	.0024415	.0055910	.0115758	.0219468
20	.0000059	.0000276	.0001061	.0003438	.0009649	.0023949	.0053449	.0108790
21	.0000015	.0000077	.0000328	.0001169	.0003581	.0009641	.0023211	.0050678
22	.0000003	.0000020	.0000095	.0000374	.0001250	.0003652	.0009489	.0022259
23	.0000001	.0000005	.0000026	.0000112	.0000411	.0001303	.0003656	.0009219
24		.0000001	.0000007	.0000032	.0000127	.0000438	.0001329	.0003601
25			.0000002	.0000009	.0000037	.0000139	.0000456	.0001330
26				.0000002	.0000010	.0000042	.0000148	.0000464
27				.0000001	.0000003	.0000012	.0000045	.0000[illegible]
28					.0000001	.0000003	.0000013	.0000042
29						.0000001	.0000004	.0000[illegible]
30							.0000001	.0000003
31								.0000001

x	.17	.18	.19	.20	.21	.22	.23	24
1	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999874	.9999928	.9999969	.9999987	.9999995	.9999996	.9999998	1.0000000
3	.9998670	.9999382	.9999718	.9999873	.9999944	.9999975	.9999988	.9999996
4	.9992947	.9996509	.9998304	.9999190	.9999620	.9999825	.9999921	.9999965
5	.9978140	.9985315	.9992417	.9996161	.9998094	.9999071	.9999556	.9999781
6	.9912479	.9950913	.9973084	.9988558	.9992413	.9996095	.9998030	.9999025
7	.9771950	.9864070	.9920933	.9955075	.9975046	.9986440	.9992788	.9996243
8	.9492345	.9678885	.9802098	.9881045	.9930200	.9959988	.9977577	.9988709
9	.9012721	.9338437	.9568647	.9726044	.9850362	.9897502	.9939826	.9965139
10	.8298321	.8790400	.9187073	.9441875	.9635740	.9768258	.9856176	.9912070
11	.7333235	.8008444	.8554796	.8980101	.9299463	.9531110	.9694148	.9805501
12	.6190315	.7009760	.7719186	.8308429	.8779375	.9142474	.9413106	.9608458
13	.4961332	.5858838	.6690140	.7426860	.8053556	.8566696	.8972068	.9281649
14	.3760824	.4655932	.5538954	.6375759	.7133384	.7792179	.8343776	.8789450
15	.2689458	.3501505	.4362382	.5230809	.6067616	.6840345	.7526064	.8112213
16	.1811713	.2489618	.3258437	.4085859	.4934393	.5766402	.6549057	.7256757
17	.1148777	.1670545	.2303559	.3030359	.3823566	.4649596	.5472922	.6266601
18	.0685521	.1057121	.1539379	.2130079	.2816165	.3574824	.4376234	.5187343
19	.0385056	.0630717	.0971747	.1417357	.1968147	.2614878	.3338892	.4114084
20	.0203671	.0354840	.0579310	.0892194	.1303743	.1816866	.2425633	.3135152
21	.0101506	.0188305	.0326164	.0531144	.0818056	.1197896	.1675456	.2247657
22	.0047690	.0094303	.0173473	.0299041	.0486067	.0748972	.1099253	.1543220
23	.0021147	.0044592	.0087188	.0159251	.0273465	.0443934	.0684618	.1007319
24	.0008853	.0019921	.0041429	.0080240	.0145693	.0249417	.0404605	.0624702
25	.0003501	.0008413	.0018620	.0038265	.0073517	.0132832	.0226870	.0367948
26	.0001309	.0003361	.0007919	.0017278	.0035146	.0067066	.0120690	.0205706
27	.0000463	.0001270	.0003189	.0007389	.0015923	.0032107	.0060918	.0109278
28	.0000155	.0000455	.0001216	.0002995	.0006830	.0014578	.0029177	.0055097
29	.0000049	.0000154	.0000440	.0001150	.0002785	.0006279	.0013263	.0026377
30	.0000015	.0000050	.0000151	.0000419	.0001076	.0002566	.0005722	.0011992
31	.0000004	.0000015	.0000049	.0000145	.0000394	.0000995	.0002344	.0005177
32	.0000001	.0000004	.0000015	.0000047	.0000137	.0000366	.0000912	.0002123
33		.0000001	.0000004	.0000015	.0000045	.0000128	.0000337	.0000827
34			.0000001	.0000004	.0000014	.0000042	.0000118	.0000306

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 7

p	.17	.18	.19	.20	.21	.22	.23	.24
35				.0000001	.0000004	.0000013	.0000039	.0000107
36					.0000001	.0000004	.0000012	.0000036
37						.0000001	.0000004	.0000011
38							.0000001	.0000003
39								.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999985	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999904	.9999956	.9999981	.9999992	.9999996	.9999998	.9999999	1.0000000
6	.9999527	.9999775	.9999895	.9999952	.9999978	.9999990	.9999996	.9999998
7	.9998083	.9999041	.9999530	.9999774	.9999894	.9999951	.9999978	.9999990
8	.9993407	.9996538	.9998220	.9999104	.9999558	.9999786	.9999899	.9999953
9	.9980354	.9989172	.9994161	.9996919	.9998409	.9999195	.9999602	.9999807
10	.9948446	.9970193	.9983153	.9990689	.9994966	.9997338	.9998622	.9999302
11	.9879312	.9926848	.9956688	.9974941	.9985028	.9992163	.9995753	.9997759
12	.9745234	.9838242	.9899737	.9939308	.9964110	.9979261	.9988207	.9993534
13	.9510598	.9674800	.9789152	.9866559	.9917640	.9950231	.9970655	.9983096
14	.9137586	.9400924	.9594082	.9731631	.9826020	.9890894	.9932875	.9959665
15	.8595830	.8981651	.9279719	.9503043	.9665370	.9780092	.9858910	.9911625
16	.7873490	.8392402	.8814634	.9147360	.9401591	.9590146	.9726011	.9821197
17	.6985613	.7628966	.8180318	.8637357	.9004297	.9289964	.9505823	.9664278
18	.5975871	.6713814	.7379685	.7960686	.8450654	.8851041	.9168314	.9412339
19	.4910032	.5695604	.6442391	.7127379	.7734556	.8255360	.8680139	.9036000
20	.3862892	.4641185	.5420407	.6172244	.6872479	.7502921	.8052899	.8516167
21	.2903014	.3622388	.4380923	.5150779	.5904160	.6616119	.7266715	.7842278
22	.2080261	.2701930	.3392295	.4129315	.4887132	.5638826	.6359146	.7026815
23	.1419565	.1922821	.2511395	.3172337	.3886382	.4629002	.5376843	.6102333
24	.0921650	.1303927	.1774775	.2330936	.2962236	.3652115	.4379066	.5118741
25	.0568960	.0841848	.1195822	.1635611	.2160116	.2761722	.3426478	.4135148
26	.0333833	.0517144	.0767555	.1094003	.1504863	.1998527	.2570530	.3209415
27	.0186125	.0302137	.0469032	.0698442	.1000467	.1382101	.1845788	.2388402
28	.0098594	.0167839	.0272743	.0424414	.0634208	.0912443	.1266929	.1701542
29	.0049619	.0088634	.0150879	.0245535	.0383096	.0574576	.0830387	.1158900
30	.0023724	.0044492	.0079383	.0135192	.0220404	.0344894	.0519289	.0755984
31	.0010776	.0021228	.0039718	.0070826	.0120726	.0197261	.0309635	.0468105
32	.0004651	.0009626	.0018865	.0035297	.0062939	.0107424	.0175943	.0277157
33	.0001907	.0004148	.0008546	.0016731	.0031222	.0055699	.0095232	.0156411
34	.0000743	.0001699	.0003675	.0007541	.0014735	.0027486	.0049080	.0084092
35	.0000275	.0000661	.0001502	.0003232	.0006614	.0012905	.0024077	.0043053
36	.0000097	.0000245	.0000583	.0001317	.0002883	.0005763	.0011238	.0020982
37	.0000032	.0000086	.0000215	.0000510	.0001145	.0002448	.0004990	.0009730
38	.0000010	.0000029	.0000075	.0000188	.0000442	.0000988	.0002107	.0004291
39	.0000003	.0000009	.0000025	.0000066	.0000163	.0000379	.0000845	.0001800
40	.0000001	.0000003	.0000008	.0000022	.0000056	.0000138	.0000322	.0000717
41		.0000001	.0000002	.0000007	.0000019	.0000048	.0000117	.0000272
42			.0000001	.0000002	.0000006	.0000016	.0000040	.0000098
43				.0000001	.0000002	.0000005	.0000013	.0000033
44						.0000001	.0000004	.0000011
45							.0000001	.0000003
46								.0000001

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999979	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
9	.9999908	.9999957	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000
10	.9999654	.9999832	.9999920	.9999963	.9999983	.9999993	.9999997	.9999999
11	.9998841	.9999414	.9999710	.9999860	.9999934	.9999969	.9999986	.9999994
12	.9996510	.9998158	.9999050	.9999521	.9999764	.9999886	.9999946	.9999975
13	.9990483	.9994764	.9997185	.9998521	.9999240	.9999619	.9999813	.9999911
14	.9976324	.9986424	.9992394	.9995837	.9997774	.9998838	.9999407	.9999705
15	.9945940	.9967704	.9981155	.9989261	.9994023	.9996751	.9998275	.9999106
16	.9886078	.9929129	.9956949	.9974463	.9985209	.9991635	.9995382	.9997511
17	.9777355	.9855851	.9908884	.9943770	.9966122	.9980074	.9988560	.9993509
18	.9594655	.9727061	.9820585	.9884867	.9927877	.9955898	.9973678	.9984669
19	.9309697	.9516963	.9670024	.9779946	.9856748	.9908975	.9941550	.9965837
20	.8896027	.9197963	.9431076	.9605997	.9733626	.9824218	.9886777	.9928834
21	.8335720	.8746046	.9077250	.9336920	.9534773	.9681346	.9786958	.9860996
22	.7636078	.8147402	.8587337	.8947720	.9234464	.9450183	.9622854	.9744702
23	.6784040	.7404458	.7951820	.8420309	.8809569	.9123720	.9370094	.9557926
24	.5846377	.6539158	.7178148	.7749580	.8245388	.8663029	.9034736	.9276409
25	.4864980	.5591916	.6292888	.6947849	.7541281	.8063016	.8608358	.8877593
26	.3898231	.4615971	.5339551	.6045901	.6714234	.7327516	.7873646	.8345839
27	.3000853	.3668462	.4372071	.5089750	.5798828	.6477950	.7108870	.7677738
28	.2215089	.2800709	.3445956	.4133600	.4843060	.5552258	.6239615	.6885914
29	.1565451	.2050347	.2608890	.3230805	.3900837	.4599904	.5306745	.5999825
30	.1057911	.1437199	.1893943	.2425295	.3023080	.3674033	.4360691	.5062819
31	.0682938	.0963403	.1316485	.1745646	.2249817	.2822830	.3459410	.4125798
32	.0430799	.0616971	.0875153	.1203022	.1605234	.2082345	.2630091	.3239163
33	.0247304	.0377159	.0555823	.0792875	.1096538	.1472490	.1922763	.2444884
34	.0138545	.0219287	.0336982	.0499248	.0716300	.0956768	.1347202	.1770950
35	.0073949	.0122252	.0194884	.0300077	.0447009	.0645166	.0903460	.1229161
36	.0037588	.0064747	.0107432	.0172639	.0266261	.0398883	.0570227	.0816369
37	.0018186	.0032654	.0056429	.0094016	.0151261	.0235357	.0354655	.0518242

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 74

k	.33	.34	.35	.36	.37	.38	.39	.40
38	.0008372	.0015675	.0028220	.0048942	.0081896	.0132422	.0207196	.0314118
39	.0003665	.0007158	.0013431	.0024255	.0042229	.0070993	.0115400	.0181617
40	.0001525	.0003108	.0006079	.0011436	.0020725	.0036239	.0061226	.0100078
41	.0000603	.0001283	.0002616	.0005127	.0009675	.0017601	.0030919	.0052513
42	.0000226	.0000503	.0001069	.0002184	.0004293	.0008128	.0014851	.0026210
43	.0000081	.0000187	.0000415	.0000884	.0001809	.0003566	.0006779	.0012444
44	.0000027	.0000066	.0000153	.0000339	.0000724	.0001485	.0002938	.0005610
45	.0000009	.0000022	.0000053	.0000124	.0000275	.0000587	.0001209	.0002400
46	.0000003	.0000007	.0000018	.0000043	.0000099	.0000220	.0000471	.0000974
47	.0000001	.0000002	.0000006	.0000014	.0000034	.0000078	.0000174	.0000374
48		.0000001	.0000002	.0000004	.0000011	.0000026	.0000061	.0000134
49				.0000001	.0000003	.0000008	.0000020	.0000047
50					.0000001	.0000002	.0000006	.0000015
51						.0000001	.0000002	.0000005
52							.0000001	.0000001

k	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999958	.9999981	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000
14	.9999855	.9999932	.9999968	.9999986	.9999994	.9999997	.9999999	1.0000000
15	.9999548	.9999777	.9999893	.9999950	.9999977	.9999990	.9999996	.9999998
16	.9998691	.9999328	.9999664	.9999836	.9999922	.9999964	.9999984	.9999993
17	.9996494	.9998130	.9999027	.9999506	.9999756	.9999862	.9999945	.9999975
18	.9991287	.9995169	.9997388	.9998623	.9999292	.9999646	.9999827	.9999918
19	.9979827	.9988380	.9993473	.9996425	.9998092	.9999007	.9999497	.9999752
20	.9956357	.9973891	.9984767	.9991335	.9995196	.9997405	.9998635	.9999301
21	.9911503	.9945037	.9966707	.9980337	.9988680	.9993651	.9996531	.9998155
22	.9831354	.9891309	.9931673	.9958116	.9974973	.9985427	.9991734	.9995435
23	.9697175	.9797580	.9868003	.9916056	.9947953	.9968550	.9981486	.9989387
24	.9486364	.9644128	.9759410	.9841340	.9897274	.9936047	.9960940	.9976765
25	.9175062	.9407997	.9585327	.9716592	.9811077	.9877211	.9922228	.9952006
26	.8742403	.9066014	.9322675	.9520558	.9668881	.9776971	.9853553	.9906298
27	.8175774	.8599304	.8949258	.9230278	.9449623	.9616045	.9738788	.9826782
28	.7475756	.7998481	.8448455	.8824807	.9130701	.9372338	.9557859	.9696894
29	.6659211	.7268170	.7814294	.8290041	.8692701	.9023862	.9288538	.9494109
30	.5759149	.6429311	.7055448	.7623559	.8124262	.8552998	.8909702	.9198078
31	.4830950	.5518136	.6196734	.6838062	.7426633	.7951337	.8405778	.8788175
32	.3895574	.4581624	.5277315	.5962070	.6616482	.7223882	.7771502	.8251138
33	.3031465	.3670340	.4345374	.5037194	.5725777	.6391181	.7015602	.7585005
34	.2267215	.2830474	.3450396	.4112319	.4798266	.5488387	.6162629	.6802416
35	.1626784	.2097081	.2636324	.3236018	.3883155	.4561008	.5250403	.5931899
36	.1118161	.1490136	.1934468	.2449137	.3027467	.3658162	.4325882	.5012318
37	.0735256	.1013998	.1360875	.1779350	.2269016	.2824981	.3437702	.4093337
38	.0461979	.0659889	.0916470	.1238867	.1631693	.2096051	.2628784	.3222121
39	.0277072	.0410214	.0590039	.0825376	.1123970	.1491452	.1930319	.2439084
40	.0158461	.0243322	.0362727	.0525482	.0740514	.1016040	.1358571	.1771681
41	.0086340	.0137576	.0212681	.0319305	.0465995	.0661683	.0914927	.1232986
42	.0044778	.0074075	.0118614	.0184966	.0279736	.0411359	.0588676	.0820474
43	.0022086	.0037945	.0063176	.0102033	.0159998	.0243815	.0361356	.0521289
44	.0010350	.0018475	.0031941	.0053540	.0087092	.0137602	.0211338	.0315767
45	.0004605	.0008542	.0015340	.0026696	.0045066	.0073657	.0117609	.0182105
46	.0001943	.0003746	.0006990	.0012635	.0022142	.0037656	.0062197	.0099852
47	.0000777	.0001557	.0003019	.0005670	.0010318	.0018215	.0031818	.0051986
48	.0000294	.0000613	.0001235	.0002409	.0004554	.0008349	.0014858	.0025663
49	.0000105	.0000228	.0000478	.0000968	.0001902	.0003621	.0006688	.0011996
50	.0000035	.0000080	.0000174	.0000368	.0000750	.0001484	.0002847	.0005301
51	.0000011	.0000027	.0000060	.0000132	.0000279	.0000574	.0001144	.0002218
52	.0000003	.0000008	.0000019	.0000044	.0000098	.0000209	.0000433	.0000870
53	.0000001	.0000002	.0000006	.0000014	.0000033	.0000072	.0000158	.0000328
54		.0000001	.0000002	.0000004	.0000010	.0000023	.0000052	.0000118
55				.0000001	.0000003	.0000007	.0000016	.0000036
56					.0000001	.0000002	.0000005	.0000011
57						.0000001	.0000001	.0000003
58								.0000001

k	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	.9999999	1.0000000
16	.9999997	.9999999
17	.9999989	.9999995

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 74

r \ p	.49	.50
18	.9999962	.9999983
19	.9999881	.9999945
20	.9999652	.9999831
21	.9999045	.9999519
22	.9997547	.9998718
23	.9994079	.9996786
24	.9986545	.9992419
25	.9971164	.9983139
26	.9941608	.9964579
27	.9888092	.9929600
28	.9796682	.9867416
29	.9649261	.9763035
30	.9424592	.9597466
31	.9100803	.9349112
32	.8659255	.8996609
33	.8089193	.8528934
34	.7392111	.7980074
35	.6584477	.7193096
36	.5697663	.6362265
37	.4774624	.5468197
38	.3863813	.4537803
39	.3011749	.3637735
40	.2256072	.2806904
41	.1620785	.2079926
42	.1114622	.1477066
43	.0738518	.1003391
44	.0459312	.0650888
45	.0274375	.0402534
46	.0155919	.0236965
47	.0084169	.0132584
48	.0043100	.0070400
49	.0020905	.0035421
50	.0009590	.0016861
51	.0004154	.0007581
52	.0001696	.0003214
53	.0000652	.0001302
54	.0000235	.0000481
55	.0000080	.0000169
56	.0000025	.0000055
57	.0000007	.0000017
58	.0000002	.0000005
59	.0000001	.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 75$$

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.5294134	.7802364	.8981690	.9531896	.9786563	.9903486	.9956727	.9980765
2	.1729083	.4438637	.6619630	.8069070	.8944047	.9441453	.9712441	.9855381
3	.0396691	.1898679	.3916655	.5813881	.7303358	.8350257	.9032120	.9451718
4	.0069200	.0657339	.1802457	.3527370	.5202125	.6685446	.7786088	.8597710
5	.0009657	.0173990	.0750017	.1812487	.3211484	.4708205	.6097903	.7361021
6	.0001116	.0039713	.0258677	.0797847	.1783741	.2943259	.4293548	.5610492
7	.0000110	.0007742	.0073285	.0304620	.0910215	.1628937	.2709078	.3936041
8	.0000009	.0001311	.0018517	.0102044	.0436280	.0801993	.1533504	.2500798
9	.0000001	.0000195	.0004135	.0030299	.0184257	.0353332	.0781389	.1439967
10		.0000026	.0000823	.0008044	.0071183	.0140136	.0359953	.0753845
11		.0000003	.0000147	.0001924	.0013326	.0050325	.0150595	.0359126
12			.0000024	.0000417	.0003351	.0016449	.0057478	.0156614
13			.0000004	.0000083	.0000833	.0004917	.0020098	.0062696
14				.0000015	.0000190	.0001350	.0006463	.0023118
15				.0000002	.0000040	.0000342	.0001918	.0007877
16					.0000008	.0000080	.0000527	.0002487
17					.0000001	.0000017	.0000135	.0000730
18						.0000004	.0000032	.0000200
19						.0000001	.0000007	.0000051
20							.0000001	.0000012
21								.0000003
22								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9991526	.9996300	.9998400	.9999314	.9999709	.9999878	.9999949	.9999979
2	.9928667	.9965468	.9985354	.9993300	.9996447	.9998385	.9999276	.9999680
3	.9698645	.9838712	.9935718	.9976912	.9990415	.9996392	.9998880	.9999578
4	.9145075	.9496004	.9771675	.9919487	.9973849	.9993768	.9998005	.9999801
5	.8159599	.8810586	.9257735	.9551262	.9736498	.9849383	.9946047	.9984301
6	.6775601	.7789149	.8461045	.8993153	.9362310	.9608083	.9765800	.9863691
7	.5178680	.6387287	.7312260	.8105253	.8709990	.9149000	.9456467	.9662336
8	.3621871	.4791914	.5912697	.6911777	.7749183	.8414416	.8918384	.9284281
9	.2313124	.3341839	.4448369	.5528430	.6528848	.7396850	.8111260	.8672193
10	.1349541	.2142395	.3089521	.4124123	.5171363	.6163675	.7050981	.7804258
11	.0720565	.1262802	.1985961	.2860346	.3832600	.4838729	.5815937	.6713139
12	.0352982	.0685292	.1179991	.1841834	.2653517	.3564204	.4528180	.5485041
13	.0159092	.0343064	.0648714	.1101170	.1708473	.2457640	.3316057	.4237448
14	.0066168	.0158787	.0330500	.0611710	.1026304	.1584661	.2279496	.3085825
15	.0025460	.0068111	.0156324	.0316127	.0574885	.0955305	.1469411	.2114387
16	.0009090	.0027139	.0068786	.0152213	.0300574	.0530661	.0888055	.1361909
17	.0003019	.0010067	.0028205	.0068394	.0146866	.0283315	.0503335	.0824424
18	.0000934	.0003484	.0010800	.0028725	.0067153	.0140614	.0267710	.0469118
19	.0000270	.0001127	.0003869	.0011295	.0028773	.0065235	.0135707	.0252019
20	.0000073	.0000341	.0001298	.0004164	.0011568	.0028424	.0062795	.0126422
21	.0000019	.0000097	.0000409	.0001442	.0004370	.0011644	.0027747	.0059961
22	.0000004	.0000026	.0000121	.0000469	.0001553	.0004490	.0011548	.0026006
23	.0000001	.0000007	.0000034	.0000144	.0000520	.0001631	.0004531	.0011305
24		.0000002	.0000009	.0000042	.0000164	.0000559	.0001676	.0004501
25			.0000002	.0000011	.0000049	.0000181	.0000587	.0001694
26			.0000001	.0000003	.0000014	.0000055	.0000194	.0000608
27				.0000001	.0000004	.0000016	.0000061	.0000203
28					.0000001	.0000004	.0000018	.0000065
29						.0000001	.0000005	.0000020
30							.0000001	.0000006
31								.0000002

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999991	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999860	.9999940	.9999975	.9999989	.9999996	.9999998	.9999999	1.0000000
3	.9998869	.9999481	.9999766	.9999896	.9999954	.9999980	.9999992	.9999997
4	.9993920	.9997027	.9998573	.9999327	.9999688	.9999858	.9999936	.9999978
5	.9975677	.9987330	.9993535	.9996767	.9998414	.9999237	.9999640	.9999853
6	.9922621	.9957106	.9976757	.9987679	.9993606	.9996749	.9998381	.9999309
7	.9795840	.9879702	.9930842	.9961172	.9978693	.9988564	.9993993	.9996911
8	.9539878	.9718218	.9834677	.9895851	.9939618	.9965807	.9981076	.9989757
9	.9094857	.9399718	.9613003	.9757044	.9851328	.9911249	.9948278	.9970556
10	.8414789	.8889047	.9243372	.9490709	.9676610	.9796592	.9875347	.9925414
11	.7496279	.8149196	.8671129	.9072456	.9370081	.9583439	.9731568	.9831331
12	.6384611	.7189523	.7877932	.8442763	.8888593	.9228018	.9477798	.9655768
13	.5170259	.6066004	.6885666	.7603174	.8205978	.8693367	.9073507	.9360083
14	.3964910	.4870815	.5757681	.6585979	.7326620	.7962573	.8488283	.8907577
15	.2871590	.3708942	.4585931	.5459799	.6291427	.7049749	.7714137	.8274750
16	.1960930	.2671758	.3468186	.4314849	.5172370	.6002732	.6773768	.7462067
17	.1261476	.1817978	.2464985	.3241459	.4056855	.4895311	.5720433	.6499678
18	.0764875	.1167537	.1664573	.2310135	.3027783	.3811874	.4628473	.5444925
19	.0436135	.0707469	.1079597	.1559902	.2146230	.2826066	.3577480	.4371666
20	.0834307	.0404498	.0653873	.0997227	.1443268	.1992429	.2635662	.3354895
21	.0118874	.0218381	.0374262	.0603384	.0920050	.1334069	.1847996	.2455856
22	.0066845	.0111223	.0202485	.0345262	.0555785	.0847735	.1231780	.1712889
23	.0025661	.0053540	.0103502	.0187209	.0318113	.0511042	.0779984	.1135936
24	.0010943	.0024362	.0050123	.0096042	.0172835	.0292211	.0469008	.0716531
25	.0004411	.0010484	.0023954	.0046660	.0088674	.0158481	.0267749	.0429569
26	.0001682	.0004270	.0009952	.0021475	.0043204	.0081534	.0145118	.0244708
27	.0000607	.0001647	.0004088	.0009367	.0019960	.0039798	.0074665	.0132440
28	.0000209	.0000602	.0001591	.0003874	.0008746	.0018434	.0036477	.0068100
29	.0000067	.0000208	.0000587	.0001519	.0003636	.0008105	.0016923	.0033270
30	.0000021	.0000068	.0000206	.0000565	.0001495	.0003583	.0007457	.0015444
31	.0000006	.0000021	.0000068	.0000200	.0000537	.0001341	.0003121	.0006813
32	.0000002	.0000006	.0000022	.0000067	.0000191	.0000505	.0001241	.0002856

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 75

p	.17	.18	.19	.20	.21	.22	.23	.24
33		.0000002	.0000006	.0000021	.0000065	.0000180	.0000469	.0001138
34			.0000002	.0000006	.0000021	.0000061	.0000168	.0000431
35				.0000002	.0000006	.0000020	.0000057	.0000155
36				.0000001	.0000002	.0000006	.0000019	.0000053
37					.0000001	.0000002	.0000006	.0000017
38							.0000002	.0000005
39								.0000002

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999924	.9999966	.9999985	.9999994	.9999997	.9999999	1.0000000	1.0000000
6	.9999621	.9999822	.9999918	.9999963	.9999984	.9999993	.9999997	.9999999
7	.9998444	.9999232	.9999629	.9999824	.9999918	.9999963	.9999983	.9999993
8	.9994576	.9997189	.9998574	.9999291	.9999655	.9999836	.9999923	.9999965
9	.9983617	.9991087	.9995257	.9997531	.9998742	.9999373	.9999694	.9999854
10	.9956423	.9975127	.9986125	.9992433	.9995965	.9997895	.9998926	.9999464
11	.9896596	.9938118	.9963834	.9979350	.9988478	.9993716	.9996649	.9998853
12	.9778754	.9861280	.9915114	.9949286	.9970408	.9983138	.9990605	.9994886
13	.9569257	.9717295	.9819010	.9886929	.9931045	.9958940	.9976121	.9986435
14	.9230839	.9472132	.9646751	.9769411	.9853139	.9908695	.9944587	.9967168
15	.8731269	.9090662	.9364597	.9567019	.9718190	.9813333	.9881845	.9926998
16	.8054075	.8545607	.8940207	.9246940	.9478087	.9647130	.9767213	.9850134
17	.7207582	.7827459	.8351584	.8780158	.9119513	.9380018	.9574008	.9714492
18	.6228307	.6951753	.7596002	.8150154	.8611211	.8962718	.9278948	.9498959
19	.5176402	.5960339	.6695514	.7360705	.7942225	.8434064	.8836993	.9157040
20	.4124677	.4915334	.5696342	.6439682	.7123481	.7738653	.8249410	.8682801
21	.3141980	.3887275	.4661584	.5436789	.6184972	.6882159	.7510246	.8057928
22	.2285539	.2941249	.3659225	.4415325	.5182070	.5932014	.6640493	.7287763
23	.1584739	.2125389	.2749238	.3440291	.4176600	.4932509	.5681357	.6398147
24	.1046128	.1464840	.1973662	.2566528	.3230238	.3945481	.4688377	.5433490
25	.0657132	.0961989	.1352139	.1830302	.2392731	.3028846	.3721701	.4449898
26	.0392614	.0601567	.0883187	.1246230	.1694886	.2227486	.2835674	.3508649
27	.0223052	.0358039	.0549633	.0809423	.1146742	.1567029	.2070458	.2651126
28	.0120477	.0202757	.0325741	.0501142	.0740423	.1053340	.1446375	.1981337
29	.0061863	.0109227	.0183782	.0295622	.0455919	.0675936	.0965715	.1332599
30	.0030198	.0055969	.0098687	.0166088	.0267584	.0413799	.0615729	.0860583
31	.0014013	.0027276	.0050428	.0088848	.0149632	.0241537	.0374628	.0559586
32	.0006182	.0012642	.0024517	.0045245	.0079697	.0134369	.0217388	.0338260
33	.0002593	.0005573	.0011340	.0021929	.0040420	.0071217	.0120252	.0195050
34	.0001034	.0002336	.0004990	.0010114	.0019516	.0035950	.0063387	.0107834
35	.0000392	.0000931	.0002088	.0004439	.0009969	.0017279	.0031828	.0056186
36	.0000141	.0000353	.0000831	.0001853	.0003922	.0007906	.0015218	.0028045
37	.0000046	.0000127	.0000315	.0000736	.0001632	.0003442	.0006927	.0013330
38	.0000016	.0000044	.0000113	.0000278	.0000646	.0001426	.0003000	.0006038
39	.0000005	.0000014	.0000039	.0000100	.0000243	.0000562	.0001236	.0002597
40	.0000001	.0000004	.0000013	.0000034	.0000087	.0000210	.0000485	.0001064
41		.0000001	.0000004	.0000011	.0000030	.0000075	.0000180	.0000414
42			.0000001	.0000003	.0000010	.0000025	.0000064	.0000153
43				.0000001	.0000003	.0000008	.0000021	.0000054
44					.0000001	.0000002	.0000007	.0000018
45						.0000001	.0000002	.0000006
46							.0000001	.0000002

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999984	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
9	.9999932	.9999969	.9999986	.9999994	.9999997	.9999999	1.0000000	1.0000000
10	.9999738	.9999875	.9999941	.9999973	.9999988	.9999995	.9999998	.9999999
11	.9999109	.9999556	.9999784	.9999897	.9999952	.9999978	.9999990	.9999996
12	.9997279	.9998585	.9999281	.9999643	.9999827	.9999918	.9999962	.9999983
13	.9992472	.9995918	.9997837	.9998881	.9999434	.9999720	.9999865	.9999936
14	.9980997	.9989259	.9994071	.9996803	.9998317	.9999134	.9999565	.9999787
15	.9955967	.9974068	.9985089	.9991625	.9995411	.9997544	.9998717	.9999346
16	.9905833	.9942244	.9965421	.9979790	.9988470	.9993579	.9996510	.9998149
17	.9813234	.9880766	.9925707	.9954820	.9973104	.9984467	.9991220	.9995158
18	.9654946	.9770850	.9851490	.9906072	.9942028	.9965085	.9979482	.9988237
19	.9403733	.9588396	.9723720	.9817717	.9883066	.9926806	.9955300	.9973370
20	.9032538	.9306423	.9514708	.9668619	.9779181	.9856422	.9908918	.9943635
21	.8520622	.8899697	.9201089	.9433788	.9608348	.9735635	.9825888	.9888131
22	.7860260	.8350941	.8758807	.9087832	.9345578	.9541745	.9686855	.9791220
23	.7061912	.7657059	.8174251	.8610177	.8966780	.9250056	.9468670	.9632636
24	.6155806	.6833360	.7448933	.7991042	.8454135	.8838092	.9147226	.9389016
25	.5180841	.5913978	.6602729	.7236472	.7801800	.8291021	.8701946	.9037120
26	.4217258	.4947792	.5673206	.6370602	.7020241	.7607006	.8121184	.8558541
27	.3296988	.3990615	.4710682	.5433965	.6137526	.6800785	.7407132	.7944978
28	.2474391	.3095745	.3770096	.4477814	.5196694	.5904021	.6578625	.7202643
29	.1779831	.2305470	.2901863	.3555811	.4249460	.4961798	.5670564	.6354861
30	.1225399	.1645670	.2144174	.2715279	.3347850	.4025864	.4729652	.5437617
31	.0806679	.1124494	.1518595	.1990319	.2535924	.3146287	.3807249	.4500604
32	.0507305	.0734758	.1029619	.1398367	.1843730	.2363730	.2951185	.3593816
33	.0304557	.0458695	.0667589	.0940528	.1284755	.1704235	.2196821	.2762595
34	.017 [illegible]36	.0273386	.0413577	.0604954	.0856988	.1177542	.1571671	.2040524
35	.009 [illegible]66	.0155462	.0244618	.0371779	.0546647	.0778775	.1076520	.1445877
36	.0049587	.0084299	.0138045	.0218133	.0333138	.0492471	.0705678	.0981486

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 75$$

x	.33	.34	.35	.36	.37	.38	.39	.40
37	.0024589	.0043566	.0074283	.0122104	.0193811	.0297497	.0442230	.0637493
38	.0011611	.0021443	.0038093	.0065168	.0107561	.0171537	.0264705	.0395764
39	.0005219	.0010054	.0018607	.0033142	.0056906	.0094336	.0151201	.0234618
40	.0002232	.0004485	.0008652	.0016051	.0028602	.0049446	.0082354	.0132694
41	.0000908	.0001903	.0003828	.0007399	.0013763	.0024684	.0042739	.0071539
42	.0000351	.0000768	.0001611	.0003244	.0006284	.0011728	.0021117	.0036736
43	.0000129	.0000294	.0000644	.0001352	.0002720	.0005300	.0009937	.0017953
44	.0000045	.0000107	.0000245	.0000535	.0001125	.0002276	.0004436	.0008343
45	.0000015	.0000037	.0000088	.0000201	.0000441	.0000928	.0001883	.0003684
46	.0000005	.0000012	.0000030	.0000072	.0000164	.0000359	.0000759	.0001544
47	.0000001	.0000004	.0000010	.0000024	.0000058	.0000132	.0000290	.0000614
48		.0000001	.0000003	.0000008	.0000019	.0000046	.0000105	.0000231
49			.0000001	.0000002	.0000006	.0000015	.0000036	.0000082
50				.0000001	.0000002	.0000005	.0000012	.0000028
51					.0000001	.0000001	.0000004	.0000009
52							.0000001	.0000003
53								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999992	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999971	.9999987	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
14	.9999898	.9999952	.9999978	.9999990	.9999996	.9999998	.9999999	1.0000000
15	.9999674	.9999842	.9999925	.9999965	.9999984	.9999991	.9999997	.9999999
16	.9999042	.9999517	.9999762	.9999886	.9999947	.9999976	.9999989	.9999995
17	.9997395	.9998633	.9999301	.9999651	.9999831	.9999920	.9999963	.9999983
18	.9993422	.9996413	.9998093	.9999012	.9999501	.9999755	.9999883	.9999945
19	.9984526	.9991232	.9995156	.9997392	.9998612	.9999301	.9999652	.9999832
20	.9965980	.9979977	.9988510	.9993575	.9996499	.9998142	.9999040	.9999517
21	.9928893	.9957156	.9974473	.9985176	.9991612	.9995377	.9997520	.9998705
22	.9864215	.9913075	.9946738	.9967893	.9981141	.9989210	.9993989	.9996741
23	.9758188	.9836946	.9895381	.9934563	.9960112	.9976314	.9986303	.9992390
24	.9572797	.9708578	.9806105	.9874215	.9920465	.9950999	.9970597	.9982824
25	.9308696	.9507178	.9660183	.9771481	.9850180	.9904276	.9940420	.9963891
26	.8919793	.9209647	.9435616	.9606813	.9732869	.9823082	.9885827	.9928238
27	.8408092	.8795322	.9109828	.9358002	.9548289	.9690071	.9772727	.9864950
28	.7782763	.8250836	.8663800	.9003215	.9274216	.9484443	.9643896	.9758928
29	.6993994	.7574900	.8086983	.8525338	.8889801	.9184161	.9415119	.9591158
30	.6128174	.6781631	.7381751	.7916811	.8380059	.8769596	.9087755	.9340170
31	.5205611	.5900830	.6565992	.7183680	.7740566	.8228101	.8642622	.8984925
32	.4274978	.4974959	.5672674	.6347506	.6981050	.7558511	.8069612	.8508915
33	.3385750	.4053079	.4746052	.5444139	.6126594	.6774223	.7370917	.7904740
34	.2580557	.3183218	.3835193	.4519264	.5215646	.5903672	.6563564	.7178088
35	.1889361	.2405106	.2986375	.3621591	.4294955	.4987602	.5679149	.6349435
36	.1326696	.1745053	.2236266	.2795365	.3413527	.4073471	.4760407	.5453429
37	.0893247	.1213976	.1607520	.2074056	.2610319	.3208244	.3855147	.4534448
38	.0574083	.0808615	.1107564	.1476680	.1918488	.2431359	.3008976	.3640305
39	.0352884	.0515078	.0730405	.1007312	.1352445	.1769567	.2258597	.2814942
40	.0207091	.0313417	.0460471	.0657435	.0913069	.1234729	.1627292	.2092138
41	.0115910	.0181989	.0277201	.0410023	.0589529	.0824687	.1123440	.1491655
42	.0061819	.0100746	.0159177	.0244075	.0363553	.0526508	.0742014	.1018480
43	.0031390	.0053120	.0087101	.0138523	.0213880	.0320885	.0466196	.0664098
44	.0015162	.0026653	.0045372	.0074877	.0119900	.0186460	.0281846	.0414417
45	.0006960	.0012714	.0022478	.0038507	.0063977	.0103180	.0161662	.0246263
46	.0003034	.0005760	.0010580	.0018822	.0032458	.0054309	.0088241	.0139334
47	.0001255	.0002476	.0004727	.0008734	.0015639	.0027158	.0045779	.0074968
48	.0000492	.0001009	.0002002	.0003844	.0007148	.0012887	.0023544	.0038298
49	.0000182	.0000389	.0000803	.0001602	.0003096	.0005796	.0010525	.0018556
50	.0000064	.0000143	.0000305	.0000632	.0001269	.0002467	.0004652	.0008515
51	.0000021	.0000049	.0000109	.0000236	.0000491	.0000993	.0001944	.0003695
52	.0000007	.0000016	.0000037	.0000083	.0000180	.0000377	.0000767	.0001514
53	.0000002	.0000005	.0000012	.0000027	.0000062	.0000135	.0000285	.0000585
54	.0000001	.0000001	.0000004	.0000009	.0000020	.0000045	.0000100	.0000213
55			.0000001	.0000002	.0000006	.0000014	.0000033	.0000073
56				.0000001	.0000002	.0000004	.0000010	.0000023
57						.0000001	.0000003	.0000007
58							.0000001	.0000003
59								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 75$$

c \ p	.49	.50
15	1.0000000	1.0000000
16	.9999998	.9999999
17	.9999993	.9999997
18	.9999975	.9999989
19	.9999921	.9999964
20	.9999764	.9999888
21	.9999342	.9999675
22	.9998281	.9999118
23	.9995778	.9997752
24	.9990236	.9994602
25	.9978701	.9987779
26	.9956091	.9973859
27	.9914315	.9947089
28	.9841473	.9898508
29	.9721497	.9815225
30	.9534680	.9680250
31	.9259460	.9473289
32	.8875614	.9172860
33	.8368523	.8759771
34	.7733681	.8221504
35	.6980218	.7556585
36	.6132202	.6777680
37	.5226913	.5912231
38	.4310110	.5000000
39	.3429260	.4087769
40	.2626354	.3322320
41	.1938076	.2443415
42	.1362643	.1778496
43	.0919744	.1240229
44	.0593103	.0827140
45	.0364995	.0526711
46	.0213963	.0319750
47	.0119326	.0184775
48	.0063224	.0101492
49	.0031780	.0052911
50	.0015134	.0026141
51	.0006817	.0012221
52	.0002900	.0005398
53	.0001163	.0002248
54	.0000439	.0000882
55	.0000156	.0000325
56	.0000052	.0000112
57	.0000016	.0000036
58	.0000005	.0000011
59	.0000001	.0000003
60		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 76

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.5341192	.7846317	.9012239	.9850620	.9797035	.9909277	.9955756	.9982304
2	.1764734	.4505911	.6690498	.8127583	.8986173	.9469175	.9726541	.9865557
3	.0410015	.1949478	.3997744	.5904089	.7305393	.8415738	.9079742	.9484006
4	.0072475	.0662566	.1943483	.3614830	.5307107	.6757135	.7873305	.8666038
5	.0010358	.0183257	.0783990	.1881002	.3311016	.4885039	.6216075	.7567957
6	.0001201	.0043399	.0267597	.0839433	.1798128	.3049155	.4419853	.5742554
7	.0000180	.0008303	.0078608	.0354349	.0855031	.1707796	.2819991	.4069907
8	.0000010	.0001440	.0020158	.0110147	.0359977	.0851610	.1615774	.2515618
9	.0000001	.0000218	.0004566	.0033160	.0134858	.0380258	.0834037	.1534833
10		.0000029	.0000923	.0008934	.0045317	.0159910	.0389454	.0880189
11		.0000004	.0000160	.0002169	.0013769	.0055714	.0165850	.0390655
12			.0000028	.0000478	.0003800	.0018488	.0063996	.0170015
13			.0000004	.0000096	.0000958	.0005409	.0022718	.0070209
14			.0000001	.0000018	.0000282	.0001564	.0007410	.0026884
15				.0000003	.0000047	.0000408	.0002337	.0009094
16					.0000009	.0000096	.0000686	.0003017
17					.0000002	.0000021	.0000183	.0000871
18						.0000004	.0000039	.0000238
19						.0000001	.0000009	.0000063
20							.0000002	.0000015
21								.0000003
22								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9992288	.9996670	.9998576	.9999396	.9999747	.9999895	.9999957	.9999982
2	.9934324	.9968551	.9985196	.9993142	.9996871	.9998594	.9999377	.9999728
3	.9719347	.9851388	.9923181	.9961159	.9980759	.9990651	.9995540	.9997909
4	.9194896	.9530274	.9734190	.9853578	.9931372	.9968755	.9987836	.9995364
5	.8248292	.8879120	.9307668	.9588849	.9794483	.9896097	.9958040	.9985661
6	.6900161	.7837291	.8540681	.9060126	.9410954	.9641065	.9788137	.9917182
7	.5328403	.6467473	.7438626	.8211801	.8794701	.9213960	.9502867	.9694551
8	.3761983	.4945451	.6066649	.7054994	.7874008	.8517370	.9009097	.9344770
9	.2430911	.3486847	.4604105	.5694431	.6882462	.7539300	.8232190	.8770127
10	.1436264	.2363339	.3390334	.4292640	.5347036	.6336119	.7209972	.7934137
11	.0777173	.1550762	.2407353	.3011918	.4006640	.5034888	.6091185	.6987718
12	.0386065	.0963043	.1660640	.1964043	.2884180	.3742438	.4921888	.5881536
13	.0176542	.0577247	.0707155	.1190049	.1930939	.2612858	.3697866	.4833663
14	.0074586	.0327215	.0365503	.0670445	.1114900	.1706078	.2634900	.3873005
15	.0029183	.0177179	.0175484	.0351597	.0603569	.1044115	.1790933	.2969017
16	.0010563	.0091236	.0078410	.0171883	.0336235	.0596991	.0975858	.1483305
17	.0003565	.0044774	.0032668	.0078452	.0176044	.0319923	.0561044	.0991433
18	.0001122	.0020142	.0012715	.0033485	.0087514	.0158732	.0293554	.0551563
19	.0000330	.0001363	.0004631	.0013386	.0039763	.0074709	.0143825	.0288279
20	.0000091	.0000420	.0001581	.0005020	.0014805	.0033578	.0067435	.0141361
21	.0000023	.0000121	.0000507	.0001768	.0005306	.0013991	.0030004	.0067595
22	.0000006	.0000033	.0000153	.0000586	.0001919	.0005492	.0012978	.0030111
23	.0000001	.0000008	.0000043	.0000183	.0000654	.0002013	.0005343	.0012704
24		.0000002	.0000012	.0000054	.0000210	.0000709	.0002106	.0005090
25			.0000003	.0000015	.0000064	.0000234	.0000750	.0002143
26			.0000001	.0000004	.0000018	.0000071	.0000253	.0000777
27				.0000001	.0000005	.0000021	.0000081	.0000267
28					.0000001	.0000006	.0000024	.0000087
29						.0000002	.0000007	.0000027
30							.0000002	.0000008
31								.0000002
32								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999883	.9999950	.9999979	.9999991	.9999996	.9999999	.9999999	1.0000000
3	.9999036	.9999563	.9999805	.9999915	.9999963	.9999984	.9999993	.9999997
4	.9994761	.9997468	.9998799	.9999441	.9999744	.9999885	.9999949	.9999978
5	.9978779	.9989075	.9994492	.9997279	.9998682	.9999374	.9999708	.9999866
6	.9931641	.9962546	.9979945	.9989496	.9994616	.9997297	.9998670	.9999359
7	.9817393	.9893635	.9939566	.9966473	.9981025	.9992065	.9997463	.9999053
8	.9583391	.9742365	.9844848	.9908915	.9947884	.9976814	.9990447	.9997474
9	.9170012	.9455968	.9653321	.9784805	.9869869	.9923252	.9965851	.9991756
10	.8530298	.8980967	.9313602	.9550376	.9713301	.9821894	.9921121	.9973884
11	.7652426	.8282369	.8779855	.9157706	.9434452	.9610354	.9764617	.9895911
12	.6573595	.7362265	.8028656	.8568702	.8998706	.9366210	.9536160	.9697903
13	.5376699	.6268337	.7074200	.7771092	.8349327	.8810990	.9166493	.9431047
14	.4169819	.5085949	.6078418	.6978410	.7511385	.8123348	.8622884	.9016179
15	.3057455	.3918079	.4808563	.5685035	.6508818	.7250570	.7892191	.8426629
16	.2115743	.2858451	.3684558	.4543839	.5407372	.6233076	.6990053	.7657111
17	.1380383	.1971658	.2671794	.3456137	.4291113	.5130941	.5962700	.6730652
18	.0848799	.1284617	.1836651	.2496400	.3243841	.4049763	.4876621	.5690066
19	.0491918	.0790282	.1194542	.1709948	.2331344	.3042813	.3819209	.4629048
20	.0268783	.0459033	.0734761	.1109762	.1590890	.2175829	.2853396	.3598920
21	.0138532	.0251800	.0437388	.0683129	.1029926	.1478900	.2029164	.2671625
22	.0067390	.0130494	.0255122	.0397040	.0632381	.0954729	.1373510	.1890745
23	.0030962	.0063923	.0122374	.0218860	.0368033	.0585115	.0881007	.1274261
24	.0013445	.0029614	.0060280	.0114276	.0203098	.0340354	.0540533	.0817188
25	.0005581	.0012982	.0028116	.0056537	.0106283	.0187901	.0314039	.0490440
26	.0002146	.0005389	.0012423	.0026512	.0052753	.0098463	.0171318	.0283072
27	.0000790	.0002119	.0005202	.0011789	.0024841	.0044980	.0078068	.0159303
28	.0000275	.0000790	.0002065	.0004972	.0011101	.0020134	.0035361	.0085542
29	.0000091	.0000279	.0000778	.0001990	.0004709	.0008377	.0015430	.0044629
30	.0000029	.0000094	.0000278	.0000756	.0001897	.0003422	.0006534	.0019722
31	.0000008	.0000030	.0000094	.0000273	.0000726	.0001790	.0004118	.0008884
32	.0000002	.0000009	.0000030	.0000093	.0000264	.0000689	.0001673	.0003805
33	.0000001	.0000003	.0000009	.0000030	.0000091	.0000252	.0000646	.0001550
34		.0000001	.0000003	.0000009	.0000030	.0000088	.0000237	.0000600

$$B(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 76

x	.17	.18	.19	.20	.21	.22	.23	.24
35			.0000001	.0000003	.0000009	.0000049	.0000083	.0000321
36				.0000001	.0000003	.0000009	.0000028	.0000078
37					.0000001	.0000003	.0000009	.0000026
38						.0000001	.0000003	.0000008
39							.0000001	.0000002
40								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999940	.9999974	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000
6	.9999697	.9999860	.9999936	.9999972	.9999988	.9999995	.9999998	.9999999
7	.9998738	.9999386	.9999707	.9999863	.9999937	.9999972	.9999988	.9999995
8	.9995543	.9997780	.9998859	.9999440	.9999731	.9999874	.9999948	.9999974
9	.9986367	.9994674	.9996153	.9998024	.9999007	.9999511	.9999765	.9999889
10	.9963282	.9979277	.9988591	.9993861	.9996770	.9998338	.9999164	.9999589
11	.9911552	.9947740	.9969852	.9983013	.9990642	.9994969	.9997355	.9998640
12	.9808214	.9881258	.9928258	.9957704	.9975648	.9986307	.9992478	.9995963
13	.9631631	.9754731	.9844958	.9904389	.9942460	.9966197	.9980611	.9989139
14	.9315443	.9535875	.9693261	.9802316	.9875725	.9923769	.9954363	.9973330
15	.8856162	.9189844	.9440779	.9623689	.9753063	.9841948	.9901295	.9939851
16	.8233374	.8687321	.9054792	.9336562	.9545977	.9696991	.9802749	.9874731
17	.7416206	.8014178	.8510512	.8910857	.9223449	.9460152	.9633952	.9757898
18	.6473126	.7179437	.7800009	.8326555	.8758618	.9101908	.9366295	.9563850
19	.5439445	.6318106	.6930646	.7584751	.8136231	.8598660	.8972137	.9264534
20	.4367631	.5487035	.5966119	.6697568	.7360207	.7940276	.8431560	.8834558
21	.3308407	.4754570	.4940969	.5717599	.6456850	.7136108	.7739387	.8257884
22	.2500207	.3987216	.3929862	.4701335	.5472912	.6217057	.6910116	.7534214
23	.1760041	.3337513	.2994934	.3713300	.4466186	.5332361	.5978689	.6682836
24	.1180781	.2636583	.2183068	.2811182	.3504683	.4241548	.4996201	.5742187
25	.0754381	.1992730	.1519950	.2036445	.2635608	.3503814	.4021425	.4764647
26	.0458744	.0693277	.1003804	.1409770	.1897261	.2467892	.3110505	.3807809
27	.0265443	.0481357	.0639693	.0931729	.1305704	.1765166	.2307737	.2934574
28	.0146181	.0243130	.0386192	.0587461	.0858256	.1207447	.1639841	.2154869
29	.0076516	.0133545	.0222111	.0353167	.0538425	.0789157	.1114720	.1580995
30	.0038114	.0069816	.0121663	.0208358	.0322201	.0492440	.0724325	.1027868
31	.0018059	.0034736	.0063458	.0110475	.0183838	.0293215	.0449369	.0663865
32	.0008140	.0016447	.0031513	.0057454	.0099978	.0166519	.0266132	.0409085
33	.0003490	.0007411	.0014898	.0028458	.0051810	.0090161	.0150364	.0244877
34	.0001424	.0003177	.0006705	.0013423	.0025578	.0046530	.0081015	.0139335
35	.0000552	.0001296	.0002872	.0006028	.0012027	.0022881	.0041411	.0072521
36	.0000204	.0000503	.0001171	.0002577	.0005386	.0010718	.0020367	.0037050
37	.0000072	.0000186	.0000454	.0001049	.0002296	.0004781	.0009497	.0018039
38	.0000024	.0000065	.0000168	.0000406	.0000932	.0002031	.0004210	.0008347
39	.0000008	.0000022	.0000059	.0000150	.0000360	.0000821	.0001783	.0003696
40	.0000003	.0000007	.0000020	.0000052	.0000132	.0000316	.0000718	.0001554
41	.0000001	.0000002	.0000006	.0000017	.0000046	.0000116	.0000278	.0000622
42		.0000001	.0000002	.0000006	.0000015	.0000040	.0000100	.0000237
43			.0000001	.0000002	.0000005	.0000013	.0000035	.0000086
44					.0000001	.0000004	.0000011	.0000029
45						.0000001	.0000004	.0000010
46							.0000001	.0000003
47								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999949	.9999977	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000
10	.9999802	.9999907	.9999957	.9999981	.9999991	.9999996	.9999998	.9999999
11	.9999317	.9999664	.9999839	.9999924	.9999965	.9999984	.9999993	.9999997
12	.9997683	.9998915	.9999457	.9999734	.9999873	.9999941	.9999973	.9999988
13	.9994058	.9996825	.9998343	.9999155	.9999579	.9999795	.9999903	.9999955
14	.9984783	.9991523	.9995389	.9997553	.9998730	.9999357	.9999682	.9999847
15	.9964237	.9979233	.9988233	.9993491	.9996486	.9998148	.9999048	.9999522
16	.9922377	.9953064	.9972305	.9984052	.9991038	.9995086	.9997371	.9998628
17	.9843791	.9901668	.9939607	.9963809	.9978840	.9987930	.9993863	.9996354
18	.9707181	.9808831	.9877456	.9923621	.9953556	.9972450	.9984060	.9991005
19	.9486634	.9650430	.9767790	.9849525	.9904882	.9941358	.9964731	.9979317
20	.9165033	.9402894	.9587512	.9788294	.9817618	.9883168	.9927007	.9955529
21	.8609554	.9037984	.9310856	.9518327	.9671557	.9781534	.9858870	.9910333
22	.8078179	.8537516	.8913606	.9212376	.9442803	.9615423	.9741078	.9839984
23	.7325367	.7892979	.8378846	.8778132	.9106936	.9360898	.9553768	.9696070
24	.6454831	.7113418	.7702794	.8213930	.8643814	.8994638	.9272589	.9486464
25	.5507939	.6226568	.6898900	.7508117	.8043164	.8498908	.8875605	.9177878
26	.4537881	.5276296	.5998539	.6682315	.7309418	.7866938	.8347681	.8749972
27	.3600677	.4316055	.5047565	.5771154	.6464132	.7107149	.7685612	.8190403
28	.2745848	.3400001	.4099301	.4822028	.5544803	.6244791	.6901743	.7499577
29	.2009036	.2574164	.3205745	.3887733	.4599936	.5319843	.6024708	.6693614
30	.1408362	.1870002	.2409365	.3017870	.3681446	.4381519	.5096608	.5804274
31	.0944857	.1301693	.1737548	.2251305	.2836337	.3480527	.4166986	.4875409
32	.0606098	.0867268	.1200761	.1611470	.2099842	.2661102	.3285050	.3956531
33	.0371464	.0552556	.0794299	.1105350	.1491576	.1954843	.2492121	.3095084
34	.0217376	.0336391	.0502481	.0725761	.1015262	.1377686	.1816182	.2329382
35	.0121392	.0195556	.0303754	.0455722	.0661473	.0930307	.1269629	.1683736
36	.0064661	.0103494	.0175345	.0273445	.0412136	.0601266	.0850306	.1167848

$$P(o,n;p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 76

r	.33	.34	.35	.36	.37	.38	.39	.40
37	.0038838	.0057415	.0096529	.0156675	.0245368	.0371587	.0544960	.0775090
38	.0015884	.0024968	.0050760	.0085668	.0139473	.0219406	.0333943	.0492458
39	.0007328	.0013988	.0025457	.0044671	.0075648	.0123673	.0195468	.0299078
40	.0003317	.0006378	.0012136	.0022204	.0039185	.0066504	.0109204	.0173463
41	.0001344	.0002781	.0005517	.0010513	.0019283	.0034093	.0058189	.0096001
42	.0000536	.0001154	.0002387	.0004740	.0009051	.0016651	.0029560	.0050657
43	.0000208	.0000455	.0000982	.0002033	.0004044	.0007748	.0014891	.0026466
44	.0000073	.0000171	.0000381	.0000829	.0001718	.0003435	.0006578	.0013107
45	.0000025	.0000061	.0000143	.0000321	.0000694	.0001441	.0002879	.0005548
46	.0000008	.0000021	.0000050	.0000118	.0000266	.0000576	.0001197	.0002400
47	.0000008	.0000007	.0000017	.0000041	.0000097	.0000218	.0000473	.0000986
48	.0000001	.0000002	.0000005	.0000014	.0000033	.0000079	.0000177	.0000384
49		.0000001	.0000002	.0000004	.0000011	.0000027	.0000063	.0000148
50			.0000001	.0000001	.0000003	.0000009	.0000021	.0000050
51					.0000001	.0000003	.0000007	.0000016
52						.0000001	.0000002	.0000005
53							.0000001	.0000002

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999980	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
14	.9999928	.9999967	.9999985	.9999994	.9999997	.9999999	1.0000000	1.0000000
15	.9999766	.9999888	.9999948	.9999976	.9999990	.9999996	.9999998	.9999999
16	.9999301	.9999653	.9999832	.9999921	.9999964	.9999984	.9999993	.9999997
17	.9998070	.9999004	.9999499	.9999754	.9999883	.9999946	.9999975	.9999989
18	.9995051	.9997345	.9998612	.9999393	.9999649	.9999831	.9999920	.9999964
19	.9988173	.9993400	.9996419	.9998105	.9999023	.9999510	.9999761	.9999886
20	.9973584	.9984704	.9991368	.9995854	.9997459	.9998675	.9999328	.9999668
21	.9944689	.9966740	.9980509	.9994871	.9998811	.9999649	.9999834	.9999918
22	.9891143	.9932053	.9956664	.9975498	.9993853	.9998047	.9999548	.9999784
23	.9798119	.9869256	.9911746	.9943328	.9985575	.9995246	.9998915	.9999584
24	.9646347	.9760499	.9844494	.9900768	.9973306	.9990644	.9997979	.9999308
25	.9413437	.9591762	.9760930	.9836684	.9956808	.9983768	.9994603	.9997978
26	.9076783	.9334608	.9653180	.9679267	.9785659	.9960431	.9991486	.9996351
27	.8617889	.8969339	.9499917	.9467479	.9531350	.9751256	.9983884	.9989538
28	.8037348	.8479515	.9255598	.9159321	.9197549	.9579032	.9971331	.9980819
29	.7390190	.7858789	.8835015	.8735604	.8662787	.9232291	.9932174	.9961688
30	.6683161	.7114804	.7885001	.8184563	.8009443	.8960896	.9241616	.9860644
31	.5983868	.6370766	.6916769	.7506258	.7288338	.8477189	.8851834	.9155443
32	.5265538	.5636825	.6056801	.6715483	.6522832	.7866523	.8338976	.8737400
33	.4550333	.4940269	.5144499	.5841621	.5711099	.7134996	.7699304	.8194749
34	.3910684	.4304559	.4286862	.4926809	.4855873	.6304186	.6943020	.7586070
35	.3317751	.3731913	.3551367	.4016567	.4079266	.5408095	.6094824	.6747175
36	.2757304	.3202275	.2958813	.3158904	.3309619	.4493973	.5192216	.5883518
37	.2270371	.2737028	.2477881	.2591432	.2771312	.3606249	.4280619	.4975559
38	.1870495	.2347866	.2072545	.2139512	.2329812	.2788786	.3406676	.4069494
39	.1543551	.2033363	.1799583	.1815834	.1967165	.2073991	.2611875	.3211116
40	.1266066	.1798114	.1576543	.1611381	.1770789	.1880755	.1924006	.2439084
41	.1053294	.1627169	.1356007	.1518884	.1735122	.1913306	.1960850	.1779887
42	.0883996	.1434868	.1209927	.1317092	.1465848	.1663670	.1721984	.1745604
43	.0743866	.1273183	.1118094	.1149966	.1281333	.1415472	.1596890	.1634617
44	.0631815	.1137769	.1063316	.1109881	.1162191	.1248996	.1369431	.1514648
45	.0540383	.1010568	.1033323	.1054510	.1089146	.1141489	.1218149	.1396577
46	.0464644	.0908681	.0915697	.0947483	.0946618	.0976789	.1182749	.1190661
47	.0400984	.0803856	.0807244	.0913173	.0883207	.0939647	.0965736	.1105866
48	.0348805	.0721625	.0731174	.0805996	.0810969	.0819458	.0933464	.0955897
49	.0303309	.0650650	.0661319	.0702589	.0744219	.0769056	.0816174	.0826038
50	.0264113	.0590246	.0600819	.0611059	.0682091	.0703998	.0707413	.0713535
51	.0230039	.0538088	.0546193	.0550410	.0556841	.0601671	.0603817	.0606608
52	.0200013	.0492030	.0496068	.0496150	.0500320	.0506660	.0513280	.0523561
53	.0174004	.0450010	.0450023	.0446858	.0450115	.0456246	.0460518	.0461031
54	.0151001	.0411003	.0409007	.0402017	.0405039	.0410087	.0413187	.0414391
55		.0375001	.0372003	.0362015	.0364035	.0368078	.0371169	.0372352
56			.0338001	.0325014	.0327031	.0331070	.0334152	.0335317
57				.0292013	.0294028	.0298063	.0301137	.0302285
58					.0264025	.0268057	.0271123	.0272257
59						.0241051	.0244111	.0245229

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 75

x	.49	.50
15	1.0000000	1.0000000
16	.9999999	1.0000000
17	.9999995	.9999999
18	.9999984	.9999993
19	.9999947	.9999976
20	.9999841	.9999926
21	.9999545	.9999788
22	.9998800	.9999397
23	.9997004	.9998435
24	.9992858	.9996177
25	.9984353	.9991141
26	.9967170	.9980819
27	.9934708	.9960474
28	.9877165	.9923799
29	.9780285	.9856067
30	.9636880	.9747710
31	.9394318	.9576770
32	.9063698	.9328074
33	.8616998	.8996316
34	.8044754	.8490630
35	.7349415	.7880044
36	.6547730	.7167133
37	.5670505	.6344936
38	.4752344	.5456115
39	.3860477	.4543885
40	.3019778	.3655044
41	.2278278	.2832867
42	.1641664	.2110956
43	.1136766	.1509362
44	.0753300	.1033684
45	.0476807	.0674926
46	.0287968	.0423330
47	.0165698	.0252262
48	.0090714	.0143133
49	.0047188	.0077201
50	.0023891	.0039526
51	.0010898	.0019181
52	.0004822	.0008809
53	.0002015	.0003823
54	.0000784	.0001565
55	.0000294	.0000603
56	.0000103	.0000218
57	.0000034	.0000074
58	.0000010	.0000024
59	.0000003	.0000007
60	.0000001	.0000002

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 11$$

p	.01	.02	.03	.04	.05	.06	.07	.08
1	.53677790	.79693941	.90418782	.95689395	.98073731	.99144780	.99688513	.99883780
2	.10004998	.45727119	.67601144	.81845505	.92667866	.97958881	.99148456	.99747188
3	.01335562	.20006607	.40785207	.61993029	.83453432	.94478944	.98188888	.99514814
4	.00175851	.06883304	.20051112	.37102441	.64110974	.86566681	.95377756	.98731478
5	.00010874	.01938443	.08118775	.19605892	.41080824	.73492068	.89332088	.96471803
6	.00001898	.00452616	.02830889	.08001139	.18737778	.51557086	.76458588	.90785688
7	.00000130	.00090128	.00848278	.02449128	.06903003	.31788878	.59315881	.80634008
8	.00000011	.00015879	.00221911	.00118715	.02847758	.16908981	.41700068	.67319668
9	.00000001	.00002848	.00050534	.00036248	.00961114	.07408750	.26807960	.51618056
10		.00000033	.00010382	.00009904	.00249813	.02656569	.14805375	.36885514
11		.00000004	.00001190	.00002440	.00015347	.00061547	.01809244	.04894097
12			.00000328	.00000545	.00002998	.00020716	.00071084	.01908848
13			.00000085	.00000111	.00001100	.00006388	.00022605	.00784118
14			.00000021	.00000021	.00000358	.00001807	.00006489	.00277256
15			.00000004	.00000004	.00000096	.00000478	.00002099	.00110471
16				.00000001	.00000011	.00000114	.00000737	.00043413
17					.00000001	.00000026	.00000194	.00018344
18						.00000005	.00000048	.00006998
19						.00000001	.00000011	.00002577
20							.00000002	.00000919
21								.00000304
22								.00000091

p	.09	.10	.11	.12	.13	.14	.15	.16
1	.99978988	.99970033	.99987338	.99994469	.99997800	.99999210	.99999743	.99999085
2	.99395841	.99071363	.99866667	.99938898	.99977845	.99990776	.99997464	.99997769
3	.97388695	.98631104	.99300003	.99649997	.99883854	.99961763	.99986115	.99998800
4	.93420097	.95633866	.97344916	.98664888	.99489093	.99863891	.99981342	.99997131
5	.83333486	.89442488	.93154578	.96179776	.97805477	.98977863	.99331110	.99644115
6	.70831493	.79414476	.86371169	.91333213	.94568255	.96748963	.98088848	.98918884
7	.54644011	.66044455	.75607351	.83136000	.88748658	.93733666	.95456887	.97833934
8	.39009481	.50077653	.62117566	.71938011	.79937779	.86144892	.90744668	.94007135
9	.25507008	.36189707	.47649005	.58576699	.68841749	.76768337	.83473444	.86660070
10	.15857888	.23647890	.33888569	.44608855	.55521991	.65047138	.73638380	.80754447
11	.08364911	.14419119	.22311761	.31655599	.41800925	.53007915	.61888503	.70548884
12	.04181864	.08033815	.13609005	.20897787	.29220059	.41913876	.50774585	.58745285
13	.01953999	.04133863	.07688919	.12889899	.19574461	.31770770	.39811380	.46361179
14	.00837707	.01977888	.04030885	.07338798	.12808060	.23333674	.29744413	.34566801
15	.00332810	.00871889	.01963866	.03898859	.07961533	.16536300	.21171538	.24899640
16	.00118933	.00356830	.00890888	.01934449	.04748888	.11067698	.14838357	.16838257
17	.00041135	.00137281	.00377000	.00879864	.02884713	.07133785	.09911223	.11001223
18	.00013480	.00049906	.00149909	.00378021	.01683019	.04417858	.06417478	.07504775
19	.00004401	.00016641	.00055820	.00157738	.00931239	.02687681	.03976809	.04843334
20	.00001113	.00005314	.00019717	.00066024	.00496400	.01539487	.02285494	.02868698
21	.00000330	.00001151	.00006635	.00022158	.00246411	.00816735	.01239069	.01687718
22	.00000087	.00000342	.00001988	.00007288	.00098360	.00406482	.00616431	.00938849
23	.00000018	.00000011	.00000555	.00002331	.00036819	.00183516	.00286943	.00467158
24		.00000003	.00000015	.00000869	.00012268	.00068894	.00108237	.00206901
25		.00000001	.00000004	.00000290	.00003983	.00023300	.00038894	.00083894
26			.00000001	.00000085	.00000984	.00007387	.00013106	.00031994
27				.00000021	.00000247	.00002384	.00004106	.00011348
28					.00000057	.00000738	.00001373	.00003916
29					.00000012	.00000208	.00000433	.00001316
30					.00000002	.00000055	.00000130	.00000436
31						.00000013	.00000036	.00000141
32						.00000003	.00000010	.00000044
33						.00000001	.00000003	.00000013
34							.00000001	.00000003

p	.17	.18	.19	.20	.81	.82	.83	.84
1	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999901	.99999959	.99999985	.99999993	.99999997	.99999999	1.00000000	1.00000000
3	.99991180	.99996633	.99998838	.99999530	.99999870	.99999987	.99999995	.99999998
4	.99954488	.99978845	.99989999	.99995535	.99998790	.99999907	.99999969	.99999993
5	.99811496	.99905886	.99958311	.99977111	.99989905	.99996486	.99998743	.99999853
6	.99339654	.99673281	.99823709	.99911053	.99954669	.99977764	.99989009	.99994981
7	.98368158	.99060398	.99473238	.99711078	.99844511	.99911890	.99958046	.99979118
8	.96883178	.97769594	.98628845	.99204287	.99544964	.99755115	.99866567	.99938911
9	.93402867	.95075199	.96896630	.98096827	.98868339	.99333715	.99628313	.99779078
10	.86390950	.90664668	.93781130	.95972662	.97461800	.98441993	.99067738	.99455808
11	.76801664	.84001117	.88981267	.92368240	.94930010	.96784493	.97933959	.98773678
12	.63756996	.75078883	.81713884	.86868303	.90831088	.93777588	.95887110	.97353548
13	.50801171	.64681862	.72555547	.79306614	.84851086	.89119938	.92511516	.94935093
14	.37749889	.53387761	.61801417	.69857553	.76873274	.82744689	.87479114	.91157747
15	.25465557	.41282896	.50295610	.59059910	.67193536	.74438581	.80660850	.85601181
16	.16875833	.30491184	.38944879	.47772078	.56386654	.64656925	.71975545	.78441708
17	.10053394	.21318881	.28634459	.36738677	.45855587	.53794853	.61988991	.69853008
18	.05939168	.14008844	.20033388	.26883347	.35637268	.43289308	.51208731	.59438044
19	.03358588	.08779262	.13116543	.18667039	.26543241	.33643101	.40631104	.48855744
20	.01906716	.05106658	.08221119	.12297799	.18746385	.25366568	.30974686	.38702199
21	.01060674	.02891109	.04885789	.07676555	.11477729	.16338231	.22818484	.29941176
22	.00594484	.01593309	.02715653	.04545058	.07157586	.10700448	.15843510	.22078157
23	.00371555	.00859006	.01437796	.02754496	.04383317	.06666430	.10965508	.14888817
24	.00164293	.00457889	.00738078	.01351193	.02637239	.03942201	.07195507	.09846886
25	.00068868	.00238976	.00374287	.00688084	.01266614	.02221441	.04661358	.06574939
26	.00027280	.00096755	.00185404	.00338517	.00631294	.01181139	.02856884	.04339381
27	.00010030	.00037707	.00086574	.00164733	.00310702	.00599066	.01696038	.02809809
28	.00003563	.00013039	.00038661	.00076336	.00143986	.00288820	.00955750	.01817744
29	.00001192	.00004371	.00016023	.00032567	.00062051	.00131184	.00526904	.00554688
30	.00000389	.00001427	.00006373	.00013003	.00025466	.00055732	.00283945	.00284900
31	.00000118	.00000441	.00002389	.00005369	.00010272	.00022369	.00053367	.00111488
32	.00000033	.00000133	.00000843	.00002128	.00004361	.00008931	.00026836	.00053084
33	.00000008	.00000034	.00000283	.00000813	.00001727	.00003446	.00011883	.00023091
34		.00000007	.00000088	.00000294	.00000643	.00001324	.00004931	.00009838

$$B(p,n;r) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x} \qquad n = 11$$

p	.17	.18	.19	.20	.21	.22	.23	.24
35			.0000001	.0000004	.0000014	.0000042	.0000118	.0000312
36				.0000001	.0000004	.0000013	.0000040	.0000112
37					.0000001	.0000004	.0000013	.0000038
38						.0000001	.0000004	.0000013
39							.0000001	.0000004
40								.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999951	.9999979	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000
6	.9999758	.9999889	.9999950	.9999978	.9999991	.9999996	.9999998	.9999999
7	.9998978	.9999509	.9999769	.9999893	.9999952	.9999979	.9999991	.9999996
8	.9996142	.9998153	.9999088	.9999559	.9999791	.9999903	.9999956	.9999980
9	.9988654	.9993986	.9996883	.9998420	.9999217	.9999620	.9999820	.9999916
10	.9969005	.9982760	.9990633	.9995026	.9997419	.9998690	.9999350	.9999685
11	.9934470	.9955940	.9974918	.9986051	.9992424	.9995980	.9997916	.9998944
12	.9834049	.9898543	.9939496	.9964790	.9979999	.9988906	.9993990	.9996820
13	.9668277	.9787628	.9867452	.9917317	.9952085	.9972230	.9984290	.9991323
14	.9391990	.9592777	.9744219	.9830896	.9895078	.9936497	.9962500	.9978389
15	.8970982	.9279812	.9508349	.9673704	.9788635	.9866490	.9917746	.9950564
16	.8381571	.8817977	.9159009	.9416958	.9606032	.9740476	.9833290	.9895569
17	.7620248	.8189195	.8657368	.9030054	.9317018	.9531204	.9686279	.9795284
18	.6709646	.7396469	.7991845	.8490159	.8893434	.9209381	.9449269	.9625945
19	.5697865	.6468052	.7171214	.7790296	.8316723	.8749635	.9094326	.9360315
20	.4650584	.5455114	.6328701	.6945139	.7585254	.8137792	.8599139	.8972150
21	.3630213	.4423011	.5417759	.5991991	.6718823	.7377358	.7953961	.8442419
22	.2722257	.3438728	.4428861	.4985889	.5758254	.6492772	.7167190	.7765788
23	.1945083	.2558436	.3447365	.3989950	.4759557	.5527770	.6257432	.6955278
24	.1325596	.1818824	.2402272	.3063775	.3784009	.4538792	.5300772	.6043195
25	.0860981	.1234132	.1698992	.2253372	.2887640	.3585134	.4323606	.5077460
26	.0532653	.0798615	.1147544	.1585239	.2111302	.2718669	.3392890	.4113997
27	.0313768	.0492576	.0739623	.1065581	.1477256	.1975984	.2556595	.3207209
28	.0175951	.0289469	.0454637	.0683856	.0988016	.1374762	.1846889	.2401175
29	.0093917	.0162037	.0266411	.0418770	.0631176	.0914644	.1277507	.1723835
30	.0047715	.0086395	.0148784	.0244584	.0384906	.0581455	.0845278	.1185261
31	.0023073	.0043857	.0079173	.0136232	.0223964	.0352983	.0534575	.0779746
32	.0010620	.0021202	.0040138	.0072300	.0124298	.0204528	.0322936	.0490422
33	.0004653	.0009760	.0019384	.0036577	.0065779	.0113070	.0186252	.0294704
34	.0001940	.0004278	.0008917	.0017632	.0033186	.0059620	.0102514	.0169109
35	.0000770	.0001785	.0003907	.0008098	.0015957	.0029975	.0053827	.0092622
36	.0000291	.0000709	.0001630	.0003543	.0007312	.0014367	.0026953	.0048401
37	.0000105	.0000268	.0000648	.0001477	.0003192	.0006562	.0012867	.0024122
38	.0000036	.0000097	.0000245	.0000586	.0001327	.0002856	.0005854	.0011462
39	.0000012	.0000033	.0000088	.0000221	.0000526	.0001184	.0002538	.0005191
40	.0000004	.0000011	.0000030	.0000080	.0000198	.0000467	.0001048	.0002240
41	.0000001	.0000003	.0000010	.0000027	.0000071	.0000176	.0000412	.0000920
42		.0000001	.0000003	.0000009	.0000024	.0000061	.0000154	.0000360
43			.0000001	.0000003	.0000008	.0000021	.0000055	.0000134
44				.0000001	.0000002	.0000007	.0000019	.0000047
45					.0000001	.0000002	.0000006	.0000016
46						.0000001	.0000002	.0000005
47							.0000001	.0000002

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999992	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999962	.9999983	.9999993	.9999997	.9999999	.9999999	1.0000000	1.0000000
10	.9999850	.9999931	.9999969	.9999986	.9999994	.9999997	.9999999	1.0000000
11	.9999477	.9999747	.9999880	.9999945	.9999975	.9999989	.9999995	.9999998
12	.9998356	.9999170	.9999591	.9999803	.9999907	.9999957	.9999981	.9999992
13	.9995320	.9997536	.9998733	.9999364	.9999688	.9999851	.9999930	.9999968
14	.9987844	.9993126	.9996423	.9998129	.9999044	.9999524	.9999768	.9999890
15	.9971010	.9983412	.9990737	.9994953	.9997316	.9998608	.9999295	.9999652
16	.9936187	.9961962	.9977880	.9987460	.9993054	.9996250	.9998025	.9998986
17	.9869725	.9919143	.9951051	.9971097	.9983353	.9990649	.9994877	.9997264
18	.9752263	.9839093	.9899215	.9939089	.9962911	.9978332	.9987657	.9993145
19	.9559414	.9704079	.9806176	.9876200	.9923891	.9953169	.9972269	.9983992
20	.9264461	.9486660	.9650609	.9768097	.9849905	.9905278	.9941720	.9965044
21	.8843162	.9161849	.9407646	.9591755	.9725599	.9820155	.9885077	.9928412
22	.8279931	.8707677	.9052643	.9322518	.9527442	.9678545	.9786782	.9862124
23	.7573795	.8112182	.8566012	.8937020	.9231207	.9457617	.9626815	.9749635
24	.6742101	.7378469	.7939412	.8415169	.8815169	.9133817	.9382247	.9570506
25	.5820410	.6528097	.7180263	.7762210	.8265404	.8687285	.9030429	.9301313
26	.4858000	.5599388	.6313665	.6979604	.7580904	.8107083	.8553571	.8921135
27	.3909954	.4642537	.5380406	.6099172	.6776888	.7395866	.7943819	.8414831
28	.3027941	.3711459	.4431194	.5163714	.5884954	.6572487	.7207452	.7775908
29	.2252184	.2854948	.3514489	.4224079	.4949537	.5671323	.6366751	.7015999
30	.1606584	.2104417	.2668098	.3331021	.4021287	.4738082	.5458567	.6160010
31	.1097813	.1494918	.1972684	.2527268	.3149027	.3822904	.4529539	.5246955
32	.0717089	.1014973	.1388636	.1841810	.2372345	.2972483	.3629005	.4324082
33	.0448893	.0659558	.0936561	.1287553	.1716614	.2223221	.2801364	.3439663
34	.0268225	.0409887	.0604617	.0862413	.1191498	.1597006	.2079798	.2635645
35	.0153067	.0243440	.0373308	.0552936	.0792375	.1100311	.1482784	.1941982
36	.0083382	.0138095	.0220288	.0339065	.0504391	.0726302	.1013842	.1373840

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 77

x	.33	.34	.35	.36	.37	.38	.39	.40
37	.0043340	.0074782	.0124161	.0198712	.0307068	.0458865	.0664057	.0931951
38	.0021485	.0038640	.0066804	.0111229	.0178652	.0277232	.0416247	.0605510
39	.0010155	.0019041	.0034294	.0059429	.0099263	.0160050	.0244473	.0376430
40	.0004574	.0008945	.0016788	.0030292	.0052638	.0088228	.0142847	.0223709
41	.0001962	.0004004	.0007834	.0014722	.0026625	.0046409	.0078085	.0126986
42	.0000802	.0001707	.0003482	.0006818	.0012037	.0023279	.0040719	.0068795
43	.0000312	.0000693	.0001474	.0003007	.0005897	.0011128	.0020242	.0035543
44	.0000115	.0000268	.0000594	.0001263	.0002579	.0005066	.0009586	.0017499
45	.0000041	.0000098	.0000227	.0000504	.0001073	.0002195	.0004321	.0008204
46	.0000014	.0000034	.0000083	.0000191	.0000425	.0000904	.0001853	.0003659
47	.0000004	.0000011	.0000029	.0000069	.0000160	.0000354	.0000755	.0001552
48	.0000001	.0000004	.0000009	.0000024	.0000057	.0000132	.0000292	.0000626
49		.0000001	.0000003	.0000008	.0000019	.0000046	.0000107	.0000239
50			.0000001	.0000002	.0000006	.0000016	.0000037	.0000087
51				.0000001	.0000002	.0000005	.0000012	.0000030
52					.0000001	.0000001	.0000004	.0000010
53							.0000001	.0000003
54								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999986	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999949	.9999977	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000
15	.9999832	.9999921	.9999964	.9999984	.9999993	.9999997	.9999999	1.0000000
16	.9999492	.9999752	.9999882	.9999945	.9999975	.9999989	.9999995	.9999998
17	.9998575	.9999277	.9999642	.9999828	.9999919	.9999963	.9999984	.9999993
18	.9996289	.9998042	.9998994	.9999496	.9999754	.9999883	.9999946	.9999976
19	.9990993	.9995061	.9997362	.9998628	.9999305	.9999657	.9999836	.9999923
20	.9979565	.9988359	.9993540	.9996508	.9998163	.9999059	.9999531	.9999773
21	.9956536	.9974285	.9985178	.9991680	.9995453	.9997581	.9998748	.9999370
22	.9913097	.9946622	.9968057	.9981382	.9989434	.9994164	.9996864	.9998361
23	.9836259	.9895631	.9935180	.9960787	.9976900	.9986754	.9992610	.9995990
24	.9708574	.9807333	.9875871	.9922091	.9952377	.9971651	.9983589	.9990756
25	.9508930	.9663469	.9775202	.9853681	.9907232	.9942731	.9965590	.9979885
26	.9214811	.9442613	.9614202	.9739731	.9828926	.9890486	.9931751	.9958612
27	.8806036	.9122752	.9371290	.9560666	.9700709	.9801476	.9871735	.9919339
28	.8269470	.8685241	.9025152	.9294910	.9503759	.9658255	.9771205	.9850063
29	.7603635	.8119494	.8558863	.8922039	.9221430	.9440392	.9612011	.9737991
30	.6821832	.7427278	.7964507	.8427021	.8813448	.9126813	.9373478	.9561945
31	.5952575	.6625262	.7247109	.7804712	.8289835	.8699418	.9035038	.9301939
32	.5036741	.5744740	.6426587	.7063390	.7640310	.8147429	.8579993	.8938061
33	.4121877	.4828162	.5536789	.6226094	.6876379	.7471490	.7999926	.8452222
34	.3254942	.3923077	.4621446	.5328990	.6024060	.6686326	.7298473	.7847458
35	.2475305	.3074904	.3727830	.4416809	.5121604	.5820755	.6493476	.7121429
36	.1819687	.2320323	.2899611	.3536276	.4214460	.4914082	.5616442	.6298070
37	.1287048	.1682832	.2170682	.2729120	.3346550	.4014601	.4709069	.5411376
38	.0854504	.1171294	.1561340	.2026364	.2563487	.3164787	.3817429	.4504405
39	.0550538	.0781375	.1077467	.1445138	.1887356	.2402769	.2965114	.3623137
40	.0339307	.0499019	.0712440	.0988460	.1334158	.1753644	.2247022	.2809659
41	.0199859	.0304778	.0450838	.0647583	.0904172	.1228333	.1625215	.2096302
42	.0112408	.0177843	.0272742	.0405681	.0586688	.0824503	.1127598	.1502060
43	.0060319	.0099056	.0157582	.0243102	.0364037	.0529643	.0749355	.1031891
44	.0030856	.0052617	.0086870	.0138999	.0215760	.0325197	.0476337	.0678633
45	.0015035	.0026632	.0045650	.0075793	.0122014	.0190 20	.0289251	.0426659
46	.0006972	.0012833	.0022846	.0039375	.0065767	.0106551	.0167587	.0256092
47	.0003075	.0005882	.0010879	.0019469	.0033753	.0056733	.0092532	.0146364
48	.0001288	.0002562	.0004924	.0009154	.0016476	.0028741	.0048632	.0079879
49	.0000512	.0001060	.0002116	.0004088	.0007641	.0013839	.0024301	.0041407
50	.0000193	.0000416	.0000863	.0001732	.0003364	.0006326	.0011531	.0020389
51	.0000069	.0000154	.0000333	.0000696	.0001403	.0002741	.0005189	.0009525
52	.0000023	.0000054	.0000122	.0000264	.0000554	.0001125	.0002218	.0004216
53	.0000007	.0000018	.0000042	.0000095	.0000207	.0000437	.0000892	.0001765
54	.0000002	.0000006	.0000014	.0000032	.0000073	.0000160	.0000340	.0000698
55	.0000001	.0000002	.0000004	.0000010	.0000024	.0000055	.0000128	.0000260
56			.0000001	.0000003	.0000008	.0000018	.0000041	.0000091
57				.0000001	.0000002	.0000005	.0000013	.0000030
58					.0000001	.0000002	.0000004	.0000009
59							.0000001	.0000003
60								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 77

c \ p	.49	.50
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	.9999999	1.0000000
17	.9999997	.9999999
18	.9999989	.9999996
19	.9999965	.9999985
20	.9999893	.9999951
21	.9999692	.9999854
22	.9999167	.9999589
23	.9997885	.9998916
24	.9994938	.9997306
25	.9988567	.9993604
26	.9975590	.9986005
27	.9950653	.9970646
28	.9905399	.9941636
29	.9827757	.9889833
30	.9701712	.9802302
31	.9507950	.9662254
32	.9225702	.9449922
33	.8835081	.9144695
34	.8325153	.8728477
35	.7690131	.8189841
36	.6940555	.7528089
37	.6100345	.6756044
38	.5205813	.5900535
39	.4301125	.5000000
40	.3431916	.4099465
41	.2638550	.3243956
42	.1950662	.2471911
43	.1384166	.1810159
44	.0941147	.1271523
45	.0613240	.0855305
46	.0380499	.0550078
47	.0225610	.0337746
48	.0127456	.0197698
49	.0068515	.0110167
50	.0035000	.0058364
51	.0016968	.0029354
52	.0007795	.0013995
53	.0003389	.0006316
54	.0001392	.0002694
55	.0000539	.0001084
56	.0000197	.0000411
57	.0000067	.0000146
58	.0000022	.0000049
59	.0000007	.0000015
60	.0000002	.0000004
61		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 78

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.5433903	.7931603	.9070016	.9585851	.9817004	.9919837	.9965193	.9985038
2	.1836171	.4639053	.6888596	.8239869	.9065758	.9530729	.9760840	.9883433
3	.0437331	.2052049	.4158975	.6080688	.7543496	.8539942	.9168658	.9543330
4	.0079388	.0714550	.2067313	.3801552	.5513814	.6953989	.8039479	.8794118
5	.0011524	.0202752	.0854365	.2020978	.3510838	.5055906	.6445879	.7572577
6	.0001388	.0048168	.0299160	.0922957	.1950625	.3262824	.4670643	.6000507
7	.0000142	.0009785	.0090242	.0366321	.0951541	.1870324	.3044934	.4337302
8	.0000013	.0001728	.0023782	.0127763	.0410684	.0956090	.1786320	.2849715
9	.0000001	.0000269	.0005540	.0039546	.0158047	.0438200	.0945553	.1701606
10		.0000037	.0001152	.0010957	.0054628	.0181087	.0453340	.0925241
11		.0000005	.0000216	.0002738	.0017071	.0067848	.0197710	.0459374
12		.0000001	.0000037	.0000621	.0004851	.0023166	.0078774	.0208948
13			.0000006	.0000129	.0001260	.0007242	.0028780	.0087364
14			.0000001	.0000024	.0000301	.0002081	.0009687	.0033688
15				.0000004	.0000066	.0000552	.0003011	.0012017
16				.0000001	.0000013	.0000136	.0000868	.0003977
17					.0000003	.0000031	.0000232	.0001225
18						.0000007	.0000058	.0000352
19						.0000001	.0000014	.0000094
20							.0000003	.0000024
21							.0000001	.0000006
22								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9993614	.9997303	.9998872	.9999533	.9999808	.9999922	.9999969	.9999988
2	.9944351	.9973927	.9987994	.9994562	.9997575	.9998935	.9999539	.9999803
3	.9756771	.9873930	.9936236	.9968464	.9984725	.9992745	.9996617	.9998451
4	.9286791	.9592458	.9774176	.9878309	.9936081	.9967217	.9983558	.9991926
5	.8415261	.9006057	.9398615	.9647798	.9799797	.9889297	.9940345	.9968624
6	.7139572	.8041753	.8711634	.9182585	.9498404	.9701565	.9827482	.9902934
7	.5604540	.6738157	.7678590	.8410754	.8950470	.9329740	.9585161	.9750701
8	.4042999	.5248334	.6365314	.7328186	.8108324	.8707149	.9145316	.9452447
9	.2672362	.3779202	.4924769	.6018032	.6991513	.7807649	.8456442	.8948256
10	.1618025	.2509502	.3539975	.4628476	.5693560	.6668748	.7510928	.8201307
11	.0898528	.1536206	.2359010	.3321030	.4355325	.5389470	.6359626	.7219602
12	.0458635	.0867625	.1456699	.2218885	.3119170	.4102079	.5103660	.6063655
13	.0215727	.0452857	.0834038	.1379752	.2087857	.2931950	.3866165	.4934314
14	.0093760	.0218886	.0443327	.0798413	.1305482	.1964867	.2757459	.3845502
15	.0037754	.0098186	.0219123	.0431012	.0762701	.1233932	.1849064	.2594171
16	.0014121	.0040966	.0100891	.0217018	.0416653	.0726244	.1165097	.1739756
17	.0004918	.0015932	.0043352	.0102118	.0213051	.0400822	.0689840	.1098944
18	.0001598	.0005787	.0017416	.0044975	.0102095	.0207616	.0383966	.0653787
19	.0000486	.0001967	.0006553	.0018568	.0045909	.0101028	.0201041	.0366437
20	.0000138	.0000627	.0002313	.0007197	.0019396	.0046234	.0099101	.0193594
21	.0000037	.0000188	.0000767	.0002622	.0007709	.0019920	.0046032	.0096474
22	.0000009	.0000053	.0000239	.0000900	.0002886	.0008089	.0020167	.0045380
23	.0000002	.0000014	.0000070	.0000291	.0001019	.0003099	.0008341	.0020166
24		.0000003	.0000020	.0000089	.0000340	.0001121	.0003260	.0008478
25		.0000001	.0000005	.0000026	.0000107	.0000384	.0001205	.0003367
26			.0000001	.0000007	.0000032	.0000124	.0000421	.0001867
27				.0000002	.0000009	.0000038	.0000140	.0000482
28					.0000002	.0000011	.0000044	.0000153
29					.0000001	.0000003	.0000013	.0000049
30						.0000001	.0000004	.0000015
31							.0000001	.0000004
32								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999917	.9999966	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000
3	.9999303	.9999692	.9999866	.9999943	.9999976	.9999990	.9999996	.9999998
4	.9996115	.9998167	.9999151	.9999614	.9999828	.9999925	.9999960	.9999986
5	.9983874	.9991893	.9996010	.9998076	.9999091	.9999579	.9999808	.9999915
6	.9946767	.9971509	.9985103	.9992385	.9996191	.9998135	.9999105	.9999580
7	.9854290	.9917070	.9953977	.9975073	.9986812	.9993180	.9996551	.9998393
8	.9659491	.9794154	.9878879	.9930557	.9961169	.9978805	.9988701	.9994113
9	.9305377	.9554693	.9728541	.9831787	.9900671	.9942823	.9967891	.9982398
10	.8741860	.9145857	.9437315	.9639735	.9775593	.9863888	.9919547	.9953626
11	.7944020	.8386620	.8975671	.9308444	.9546176	.9710267	.9819906	.9909032
12	.6934590	.7686325	.8306262	.8796450	.9169183	.9442416	.9635917	.9768543
13	.5780231	.6656452	.7429556	.8081792	.8609659	.9020607	.9329070	.9552753
14	.4579870	.5508713	.6385501	.7174725	.7854546	.8416597	.8863743	.9206790
15	.3438390	.4338980	.5248458	.6121880	.6922603	.7625632	.8218413	.8699551
16	.2440856	.3243424	.4110479	.4998845	.5865614	.6673762	.7395967	.8016113
17	.1636369	.2296503	.3059429	.3893358	.4759288	.5616652	.6428659	.7166312
18	.1035427	.1538423	.2160273	.2885413	.3686737	.4589241	.5374691	.6187594
19	.0618307	.0974486	.1445512	.2031460	.2720536	.3689850	.4308198	.5140194
20	.0348515	.0803566	.0916060	.1357287	.1909468	.2564076	.3302022	.4095695
21	.0185502	.0330422	.0549692	.0860084	.1273447	.1793784	.2415411	.3122662
22	.0093887	.0176948	.0312339	.0516777	.0806494	.1193728	.1683970	.2274001
23	.0044351	.0089662	.0168089	.0294408	.0484894	.0755226	.1117903	.1579643
24	.0019947	.0043010	.0085705	.0159053	.0276747	.0454092	.0706217	.1045765
25	.0008493	.0019542	.0041419	.0081506	.0149949	.0259448	.0434408	.0659406
26	.0003428	.0008415	.0018961	.0039631	.0077144	.0140865	.0242587	.0395869
27	.0001309	.0003436	.0008252	.0018290	.0037694	.0072686	.0131878	.0226224
28	.0000475	.0001331	.0003405	.0008015	.0017497	.0035650	.0068189	.0123047
29	.0000163	.0000489	.0001334	.0003336	.0007718	.0016624	.0033538	.0063702
30	.0000053	.0000171	.0000496	.0001320	.0003236	.0007371	.0015693	.0031390
31	.0000017	.0000057	.0000176	.0000496	.0001290	.0003109	.0006987	.0014724
32	.0000005	.0000018	.0000059	.0000177	.0000489	.0001247	.0002960	.0006575
33	.0000001	.0000005	.0000019	.0000060	.0000176	.0000476	.0001194	.0002795
34		.0000002	.0000006	.0000019	.0000061	.0000173	.0000458	.0001132
35			.0000002	.0000006	.0000020	.0000060	.0000167	.0000436

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 78

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
36				.0000002	.0000006	.0000020	.0000058	.0000160
37					.0000002	.0000006	.0000019	.0000056
38					.0000001	.0000002	.0000006	.0000019
39						.0000001	.0000002	.0000006
40							.0000001	.0000002
41								.0000001

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999963	.9999984	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
6	.9999806	.9999913	.9999961	.9999983	.9999993	.9999997	.9999999	1.0000000
7	.9999173	.9999608	.9999818	.9999917	.9999963	.9999984	.9999993	.9999997
8	.9997001	.9998506	.9999271	.9999652	.9999838	.9999926	.9999967	.9999985
9	.9990576	.9995069	.9997476	.9998739	.9999363	.9999705	.9999862	.9999937
10	.9973918	.9985679	.9992320	.9995977	.9997940	.9998969	.9999496	.9999759
11	.9935604	.9962913	.9979156	.9988564	.9993873	.9996793	.9998360	.9999181
12	.9856654	.9913466	.9949058	.9970743	.9983602	.9991028	.9995207	.9997500
13	.9709720	.9816466	.9886904	.9932050	.9960180	.9977233	.9987297	.9993082
14	.9461068	.9643439	.9770192	.9855654	.9911610	.9947217	.9969255	.9982528
15	.9076234	.9361153	.9569772	.9717718	.9819503	.9887492	.9931520	.9959468
16	.8528927	.8935054	.9253493	.9488647	.9658987	.9778280	.9859477	.9913167
17	.7810578	.8352678	.8792884	.9136387	.9400832	.9593985	.9731855	.9827375
18	.6937296	.7602578	.8171563	.8641330	.9016273	.9305928	.9522742	.9680134
19	.5950810	.6709441	.7392784	.7986258	.8483969	.8887559	.9204359	.9445317
20	.4912405	.5718478	.6483179	.7181783	.7797380	.8321345	.8752647	.9096363
21	.3891306	.4691358	.5490714	.6258872	.6970088	.7605488	.8153966	.8611933
22	.2951246	.3694642	.4476803	.5267597	.6036819	.6758148	.7411089	.7982310
23	.2139377	.2787312	.3505349	.4266813	.5049179	.5817270	.6546357	.7214641
24	.1480468	.2011123	.2630447	.3323104	.4066982	.4835485	.5600437	.6335061
25	.0977135	.1386152	.1888877	.2480284	.3147613	.3871232	.4626520	.5386495
26	.0614735	.0911849	.1296435	.1772316	.2336457	.2978608	.3681412	.4482305
27	.0368489	.0572146	.0849762	.1211085	.1661152	.2198789	.2815846	.3497381
28	.0210405	.0342277	.0531583	.0790739	.1129895	.1555129	.2066898	.2659106
29	.0114426	.0195169	.0317234	.0492994	.0734660	.1052680	.1454016	.1940584
30	.0059265	.0106055	.0180544	.0293356	.0456324	.0681412	.0979269	.1357605
31	.0029233	.0054914	.0097968	.0166549	.0270617	.0421524	.0630893	.0909511
32	.0013733	.0027092	.0050678	.0090193	.0153201	.0249065	.0388544	.0583006
33	.0006144	.0012735	.0024988	.0046579	.0082750	.0140507	.0228624	.0357334
34	.0002618	.0005703	.0011743	.0022937	.0042638	.0075655	.0128473	.0209299
35	.0001063	.0002433	.0005259	.0010768	.0020953	.0038869	.0068920	.0117097
36	.0000411	.0000989	.0002245	.0004819	.0009819	.0019049	.0035284	.0062551
37	.0000151	.0000383	.0000913	.0002055	.0004367	.0008904	.0017234	.0031891
38	.0000053	.0000141	.0000354	.0000835	.0001868	.0003968	.0008020	.0015513
39	.0000018	.0000050	.0000131	.0000323	.0000758	.0001686	.0003566	.0007198
40	.0000006	.0000017	.0000046	.0000119	.0000293	.0000682	.0001510	.0003184
41	.0000002	.0000005	.0000015	.0000042	.0000108	.0000263	.0000609	.0001343
42		.0000002	.0000005	.0000014	.0000038	.0000097	.0000234	.0000539
43			.0000001	.0000004	.0000013	.0000034	.0000086	.0000206
44				.0000001	.0000004	.0000011	.0000030	.0000075
45					.0000001	.0000004	.0000010	.0000026
46						.0000001	.0000003	.0000009
47							.0000001	.0000003
48								.0000001

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999972	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
10	.9999887	.9999948	.9999977	.9999990	.9999996	.9999998	.9999999	1.0000000
11	.9999600	.9999809	.9999911	.9999960	.9999982	.9999992	.9999997	.9999999
12	.9998726	.9999366	.9999692	.9999854	.9999932	.9999969	.9999986	.9999994
13	.9996322	.9998091	.9999033	.9999522	.9999769	.9999891	.9999950	.9999978
14	.9990311	.9994757	.9997231	.9998573	.9999282	.9999648	.9999831	.9999931
15	.9976566	.9986783	.9992727	.9996096	.9997956	.9998956	.9999480	.9999747
16	.9947679	.9969255	.9982380	.9990151	.9994631	.9997146	.9998520	.9999352
17	.9891657	.9933701	.9960441	.9976984	.9986943	.9992777	.9996105	.9997952
18	.9791025	.9866904	.9917358	.9949972	.9970475	.9983013	.9990473	.9994792
19	.9623054	.9750290	.9838740	.9898480	.9937698	.9962731	.9978271	.9987653
20	.9361796	.9560583	.9705058	.9807014	.9876910	.9923477	.9953634	.9972623
21	.8982191	.9272285	.9492709	.9655230	.9771593	.9852502	.9907168	.9943065
22	.8465799	.8862095	.9176908	.9419444	.9600760	.9732357	.9825117	.9888639
23	.7806821	.8314611	.8736333	.9075799	.9340814	.9541570	.9689202	.9794631
24	.7016560	.7627911	.8158722	.8605156	.8969103	.9256861	.9477628	.9642038
25	.6124568	.6817223	.7445965	.7998468	.8468817	.8856967	.9167638	.9408910
26	.5175596	.5915149	.6616975	.7261342	.7834169	.8327560	.8739546	.9073806
27	.4222809	.4967866	.5707047	.6416128	.7074374	.7666129	.8181623	.8616993
28	.3319006	.4028026	.4763418	.5500479	.6214970	.6885371	.7494635	.8031237
29	.2508184	.3146162	.3837936	.4562347	.5295641	.6013765	.6694625	.7319963
30	.1819632	.2362898	.2978735	.3652522	.4364740	.5092714	.5812759	.6503406
31	.1265708	.1703048	.2223079	.2816619	.3471763	.4172671	.4891860	.5613177
32	.0843264	.1178154	.1593053	.2088575	.2659717	.3325643	.3980213	.4693931
33	.0537662	.0780199	.1094782	.1487086	.1959247	.2567941	.3124144	.3793431
34	.0327045	.0494775	.0730797	.1015463	.1385798	.1914965	.2361209	.2957252
35	.0191064	.0300032	.0454266	.0664347	.0940050	.1289055	.1715620	.2219447

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 78

x	.33	.34	.35	.36	.37	.38	.39	.40
36	.0106378	.0173912	.0273845	.0416058	.0610945	.0868435	.1196729	.1601097
37	.0056554	.0096308	.0157805	.0249239	.0380077	.0560491	.0800473	.1108706
38	.0028697	.0050920	.0086879	.0142723	.0226166	.0346253	.0512893	.0736087
39	.0013894	.0025705	.0045672	.0078077	.0128637	.0204579	.0314515	.0468062
40	.0006415	.0012378	.0022915	.0040781	.0069890	.0115520	.0184431	.0284797
41	.0002824	.0005684	.0010968	.0020327	.0036250	.0062300	.0103342	.0165675
42	.0001185	.0002488	.0005005	.0009664	.0017939	.0032069	.0055291	.0092071
43	.0000473	.0001038	.0002177	.0004379	.0008465	.0015745	.0028228	.0048844
44	.0000180	.0000412	.0000902	.0001891	.0003806	.0007369	.0013742	.0024716
45	.0000065	.0000156	.0000356	.0000777	.0001630	.0003286	.0006375	.0011922
46	.0000022	.0000056	.0000133	.0000304	.0000664	.0001395	.0002816	.0005477
47	.0000007	.0000019	.0000048	.0000113	.0000258	.0000563	.0001183	.0002395
48	.0000002	.0000006	.0000016	.0000040	.0000095	.0000216	.0000473	.0000996
49	.0000001	.0000002	.0000005	.0000013	.0000033	.0000079	.0000180	.0000393
50		.0000001	.0000002	.0000004	.0000011	.0000027	.0000065	.0000148
51				.0000001	.0000003	.0000009	.0000022	.0000052
52					.0000001	.0000003	.0000007	.0000018
53						.0000001	.0000002	.0000006
54							.0000001	.0000002

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999964	.9999984	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
15	.9999880	.9999945	.9999975	.9999989	.9999995	.9999998	.9999999	1.0000000
16	.9999632	.9999823	.9999917	.9999962	.9999983	.9999993	.9999997	.9999999
17	.9998951	.9999476	.9999745	.9999879	.9999944	.9999975	.9999989	.9999995
18	.9997826	.9998561	.9999273	.9999642	.9999829	.9999920	.9999964	.9999984
19	.9993164	.9996313	.9998064	.9999010	.9999507	.9999761	.9999888	.9999949
20	.9984351	.9991174	.9995183	.9997441	.9998677	.9999334	.9999674	.9999845
21	.9965978	.9980196	.9988774	.9993804	.9996672	.9998261	.9999116	.9999563
22	.9930907	.9958240	.9975419	.9985913	.9992143	.9995736	.9997749	.9998845
23	.9867763	.9917047	.9949317	.9969849	.9980541	.9990163	.9994609	.9997128
24	.9760925	.9844418	.9901374	.9939117	.9963412	.9978604	.9987829	.9993260
25	.9590784	.9723892	.9818490	.9883781	.9927547	.9956039	.9974049	.9985103
26	.9335400	.9535378	.9683432	.9789869	.9864164	.9914519	.9947655	.9968823
27	.8973634	.9257093	.9475742	.9639454	.9758451	.9842431	.9899943	.9938190
28	.8489462	.8868995	.9173991	.9411843	.9591873	.9724137	.9818454	.9883732
29	.7876687	.8357107	.8759367	.9086102	.9343628	.9540609	.9686038	.9792169
30	.7149371	.7718090	.8220080	.8644829	.8993440	.9271060	.9485589	.9646447
31	.6308970	.6962109	.7555590	.8078528	.8525461	.8896020	.9194102	.9426748
32	.5412233	.6114559	.6779411	.7389572	.7932596	.8401344	.8793861	.9112723
33	.4496971	.5213125	.5919402	.6594504	.7220148	.7782426	.8272558	.8686984
34	.3610385	.4303213	.5015043	.5723716	.6407603	.7047505	.7628156	.8139161
35	.2794936	.3431137	.4112085	.4818169	.5527709	.6218918	.6871825	.7469920
36	.2082590	.2637247	.3255745	.3923710	.4622675	.5331584	.6028648	.6693282
37	.1491300	.1950578	.2484121	.3084268	.3738210	.4428731	.5135514	.5836989
38	.1024877	.1386140	.1823357	.2335577	.2916766	.3557701	.4236500	.4939751
39	.0675164	.0945141	.1285532	.1700078	.2191615	.2753297	.3376302	.4046146
40	.0425912	.0617608	.0869402	.1189398	.1583097	.2052242	.2593925	.3200129
41	.0257032	.0386359	.0563327	.0797569	.1097666	.1469976	.1917465	.2438713
42	.0148263	.0231155	.0349323	.0512230	.0729556	.1010265	.1361478	.1787296
43	.0081676	.0132146	.0207101	.0314724	.0464230	.0665279	.0927129	.1257572
44	.0043936	.0072121	.0117276	.0184804	.0282484	.0419242	.0604656	.0848197
45	.0021581	.0037546	.0063374	.0103604	.0164200	.0252525	.0377181	.0547607
46	.0010278	.0018629	.0032651	.0055399	.0091078	.0145223	.0224769	.0337964
47	.0004673	.0008802	.0016024	.0028228	.0048159	.0079649	.0127808	.0199137
48	.0002021	.0003957	.0007484	.0013698	.0024251	.0041617	.0069865	.0111888
49	.0000830	.0001691	.0003324	.0006317	.0011617	.0020694	.0035736	.0059874
50	.0000324	.0000686	.0001402	.0002769	.0005289	.0009782	.0017533	.0030478
51	.0000120	.0000264	.0000561	.0001152	.0002285	.0004390	.0008170	.0014740
52	.0000042	.0000096	.0000213	.0000454	.0000936	.0001869	.0003611	.0006764
53	.0000014	.0000033	.0000076	.0000170	.0000363	.0000753	.0001512	.0002941
54	.0000004	.0000011	.0000026	.0000060	.0000133	.0000287	.0000599	.0001210
55	.0000001	.0000003	.0000008	.0000020	.0000046	.0000103	.0000234	.0000471
56		.0000001	.0000003	.0000006	.0000015	.0000035	.0000079	.0000173
57			.0000001	.0000002	.0000005	.0000011	.0000026	.0000060
58				.0000001	.0000001	.0000003	.0000008	.0000019
59						.0000001	.0000002	.0000006
60							.0000001	.0000002

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 70

c	.49	.50
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	.99999998	.99999999
18	.99999993	.99999997
19	.99999977	.99999990
20	.99999938	.99999968
21	.99999791	.99999902
22	.99999424	.99999731
23	.99998513	.99999253
24	.99996382	.99998111
25	.99991688	.99995495
26	.99981948	.99989844
27	.99962872	.99978326
28	.99927574	.99956141
29	.99865801	.99915735
30	.99763474	.99846068
31	.99602893	.99732278
32	.99364003	.99556088
33	.99026893	.99297309
34	.98575410	.98936586
35	.98001292	.98459159
36	.97307647	.97858965
37	.96512048	.97142066
38	.95644134	.96328290
39	.94744422	.95450268
40	.93857829	.94549732
41	.93027299	.93671710
42	.92287727	.92857934
43	.91661749	.92141035
44	.91158227	.91540841
45	.90773404	.91063414
46	.90494053	.90702691
47	.90301506	.90443912
48	.90175552	.90267722
49	.90097396	.90153932
50	.90051423	.90084265
51	.90025804	.90043859
52	.90012290	.90021674
53	.90005548	.90010156
54	.90002371	.90004505
55	.90000957	.90001889
56	.90000365	.90000747
57	.90000131	.90000279
58	.90000044	.90000098
59	.90000014	.90000032
60	.90000004	.90000010
61	.90000001	.90000003
62		.90000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 79

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.5479563	.7972971	.9098497	.9602417	.9826154	.9924647	.9967629	.9986220
2	.1878346	.4704904	.6895857	.8293708	.9103320	.9544676	.9775145	.9895560
3	.0451322	.2103789	.4239064	.6167055	.7619609	.8598789	.9210111	.9570538
4	.0088908	.0741300	.2130063	.3892718	.5615298	.7049146	.8118521	.8854055
5	.0013202	.0212988	.0890753	.2092201	.3610987	.5169791	.6557431	.7670300
6	.0001489	.0051260	.0315816	.0966878	.2028636	.3370409	.4794909	.6126272
7	.0000154	.0010553	.0096510	.0388587	.1001496	.1953874	.3158733	.4470350
8	.0000014	.0001889	.0025776	.0137305	.0437727	.1010952	.1874423	.2968722
9	.0000001	.0000298	.0006087	.0043075	.0170679	.0469274	.1004407	.1793528
10		.0000042	.0001284	.0012101	.0059799	.0196514	.0487802	.0987356
11		.0000005	.0000244	.0003067	.0018948	.0074642	.0215618	.0496643
12		.0000001	.0000042	.0000706	.0005462	.0025847	.0087100	.0238988
13			.0000007	.0000148	.0001440	.0008197	.0032887	.0097090
14			.0000001	.0000029	.0000349	.0002391	.0011024	.0037982
15				.0000005	.0000078	.0000644	.0003479	.0013751
16				.0000001	.0000016	.0000161	.0001018	.0004621
17					.0000003	.0000037	.0000277	.0001445
18					.0000001	.0000008	.0000070	.0000421
19						.0000002	.0000017	.0000115
20							.0000004	.0000029
21							.0000001	.0000007
22								.0000002

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9994189	.9997573	.9998996	.9999589	.9999833	.9999933	.9999973	.9999990
2	.9948784	.9976264	.9989191	.9995158	.9997865	.9999073	.9999603	.9999833
3	.9773653	.9883930	.9941929	.9971596	.9986395	.9993611	.9997056	.9998667
4	.9329089	.9620605	.9792003	.9889127	.9942405	.9970791	.9985517	.9992970
5	.8493699	.9064697	.9439927	.9675459	.9817514	.9900206	.9946827	.9972353
6	.7254384	.8138183	.8787202	.9230410	.9537585	.9727848	.9844418	.9913445
7	.5748693	.6868517	.7792225	.8503373	.9021701	.9381795	.9621509	.9775058
8	.4183538	.5397316	.6509775	.7458094	.8217803	.8794311	.9211293	.9500168
9	.2795719	.3926115	.5083229	.6175251	.7136699	.7933579	.8559773	.9028927
10	.1712916	.2636544	.3692302	.4795223	.5862294	.6828194	.7652755	.8320819
11	.0963282	.1633544	.2488916	.3477923	.4529295	.5568569	.6532321	.7376675
12	.0498285	.0934483	.1555953	.2351142	.3279870	.4282314	.5292055	.6248606
13	.0237589	.0494334	.0902530	.1480448	.2221928	.3095768	.4051789	.5031009
14	.0104737	.0242283	.0486305	.0868526	.1407191	.2100259	.2923764	.3835712
15	.0042795	.0110256	.0243785	.0475148	.0833263	.1336263	.1985343	.2762384
16	.0016248	.0046688	.0113896	.0242637	.0461639	.0797320	.1267692	.1876462
17	.0005744	.0018435	.0049682	.0115906	.0239519	.0446381	.0761129	.1201474
18	.0001897	.0006802	.0020269	.0051832	.0116519	.0234665	.0428947	.0725018
19	.0000586	.0002349	.0007748	.0021737	.0053213	.0115551	.0228479	.0412413
20	.0000170	.0000761	.0002779	.0008561	.0022843	.0053906	.0114392	.0221849
21	.0000046	.0000232	.0000937	.0003171	.0009229	.0023604	.0053993	.0112013
22	.0000012	.0000066	.0000297	.0001106	.0003513	.0009746	.0024047	.0053555
23	.0000003	.0000018	.0000089	.0000364	.0001262	.0003798	.0010115	.0024200
24	.0000001	.0000005	.0000025	.0000113	.0000428	.0001398	.0004022	.0010343
25		.0000001	.0000007	.0000033	.0000137	.0000487	.0001513	.0004184
26			.0000002	.0000009	.0000042	.0000160	.0000539	.0001603
27				.0000002	.0000012	.0000050	.0000162	.0000582
28				.0000001	.0000003	.0000015	.0000058	.0000201
29					.0000001	.0000004	.0000018	.0000066
30						.0000001	.0000005	.0000020
31							.0000001	.0000006
32								.0000002

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999930	.9999972	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000
3	.9999407	.9999741	.9999889	.9999953	.9999980	.9999992	.9999997	.9999999
4	.9996657	.9998442	.9999287	.9999680	.9999859	.9999939	.9999974	.9999989
5	.9985955	.9993022	.9996607	.9998384	.9999246	.9999655	.9999845	.9999932
6	.9953075	.9975178	.9987176	.9993523	.9996800	.9998452	.9999267	.9999660
7	.9870018	.9926869	.9959891	.9978535	.9988782	.9994270	.9997138	.9998602
8	.9698608	.9816279	.9893148	.9939460	.9966554	.9981968	.9990506	.9995116
9	.9365577	.9597796	.9752245	.9851541	.9913376	.9950739	.9972678	.9985210
10	.8837160	.9219447	.9491508	.9674145	.9801859	.9881253	.9930666	.9960531
11	.8079551	.8638083	.9063383	.9374702	.9594354	.9744064	.9842823	.9905978
12	.7106193	.7837578	.8433449	.8899849	.9248352	.9501343	.9678235	.9797916
13	.5976472	.6841829	.7596130	.8224723	.8727159	.9113405	.9399645	.9604543
14	.4783931	.5715306	.6583872	.7356138	.8013119	.8549479	.8970760	.9289821
15	.3632442	.4549532	.5464496	.6332449	.7118311	.7799644	.8366839	.8821288
16	.2610437	.3440624	.4326695	.5023482	.6087582	.6883179	.7585130	.8180138
17	.1773132	.2466949	.3259188	.4114455	.4991617	.5849210	.6651140	.7370864
18	.1137587	.1674878	.2331113	.3047002	.3911973	.4768472	.5617250	.6422486
19	.0689217	.1075995	.1581317	.2202251	.2923438	.3718516	.4583538	.5391570
20	.0394379	.0653932	.1016656	.1492122	.2079792	.2767746	.3533442	.4346375
21	.0213214	.0375908	.0619302	.0959525	.1407011	.1963249	.2619331	.3356190
22	.0108963	.0204573	.0357436	.0585439	.0904554	.1325742	.1852202	.2477680
23	.0052670	.0103373	.0195496	.0338882	.0552430	.0851697	.1248098	.1746289
24	.0024096	.0051408	.0101358	.0186124	.0320458	.0520341	.0800905	.1173896
25	.0010440	.0023767	.0049833	.0097015	.0176576	.0302270	.0489224	.0752133
26	.0004287	.0010418	.0023244	.0048006	.0093433	.0166954	.0284406	.0459118
27	.0001669	.0004332	.0010290	.0022558	.0045978	.0087686	.0157341	.0266939
28	.0000617	.0001710	.0004326	.0010070	.0021738	.0043798	.0082837	.0147810
29	.0000216	.0000641	.0001727	.0004372	.0009771	.0020810	.0041508	.0077945
30	.0000072	.0000228	.0000656	.0001723	.0004177	.0009407	.0019798	.0039145
31	.0000023	.0000077	.0000237	.0000661	.0001699	.0004047	.0008990	.0018724
32	.0000007	.0000025	.0000081	.0000241	.0000657	.0001557	.0003887	.0008531
33	.0000002	.0000008	.0000026	.0000084	.0000242	.0000646	.0001600	.0003702
34	.0000001	.0000002	.0000008	.0000028	.0000085	.0000240	.0000627	.0001531
35		.0000001	.0000002	.0000009	.0000028	.0000085	.0000234	.0000603

$$F(n,r,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 79

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
36			.0000001	.0000003	.0000009	.0000029	.0000083	.0000226
37				.0000001	.0000003	.0000009	.0000028	.0000081
38					.0000001	.0000003	.0000009	.0000028
39						.0000001	.0000003	.0000009
40							.0000001	.0000003
41								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999971	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
6	.9999845	.9999931	.9999970	.9999987	.9999995	.9999998	.9999999	1.0000000
7	.9999331	.9999687	.9999857	.9999936	.9999972	.9999988	.9999995	.9999998
8	.9997544	.9998792	.9999419	.9999737	.9999874	.9999943	.9999975	.9999989
9	.9992180	.9995963	.9997963	.9998925	.9999515	.9999771	.9999894	.9999952
10	.9978042	.9988120	.9993713	.9996758	.9998359	.9999190	.9999609	.9999816
11	.9945182	.9968832	.9984711	.9993664	.9995052	.9997446	.9998712	.9999366
12	.9876391	.9926323	.9957185	.9979737	.9986580	.9992758	.9996185	.9998038
13	.9746453	.9841685	.9903686	.9942884	.9966972	.9981371	.9989749	.9994496
14	.9534206	.9688426	.9801704	.9877045	.9925695	.9956222	.9974848	.9985905
15	.9172441	.9434569	.9623885	.9756340	.9846214	.9905410	.9943286	.9966847
16	.8665751	.9048068	.9338888	.9552931	.9705536	.9811044	.9881841	.9927984
17	.7990165	.8504876	.8917248	.9236516	.9475607	.9649274	.9771418	.9854829
18	.7155617	.7797604	.8339320	.8780506	.9127795	.9392345	.9587567	.9727251
19	.6197432	.6941656	.7603054	.8169678	.8638337	.9013069	.9303057	.9520458
20	.5172006	.5976128	.6738773	.7407036	.7996491	.8491209	.8892678	.9208028
21	.4146580	.4958409	.5758679	.6517287	.7210003	.7820245	.8339557	.8766951
22	.3186261	.3953798	.4750614	.5545154	.6307467	.7012350	.7641381	.8183789
23	.2343344	.3023217	.3767663	.4548473	.5335594	.6099534	.6814424	.7460295
24	.1645105	.2212932	.2866570	.3587902	.4351819	.5130021	.5893672	.6616527
25	.1102968	.1548644	.2089101	.2716274	.3414230	.4160508	.4928439	.5690036
26	.0705335	.1035168	.1456394	.1970547	.2571720	.3246395	.3974398	.4730846
27	.0430051	.0660469	.0970363	.1368230	.1857002	.2432735	.3084172	.3793357
28	.0249926	.0402043	.0617493	.0908436	.1283960	.1748227	.2299072	.2927354
29	.0138421	.0233417	.0375108	.0576362	.0849278	.1203414	.1644009	.2170511
30	.0073055	.0129225	.0217450	.0349255	.0537042	.0792792	.1126441	.1544158
31	.0036741	.0068211	.0120263	.0202055	.0324486	.0499491	.0738889	.1052901
32	.0017608	.0034326	.0063446	.0111573	.0187257	.0300802	.0463672	.0687488
33	.0008042	.0016468	.0031924	.0058791	.0101180	.0173074	.0278199	.0429549
34	.0003500	.0007532	.0015319	.0029557	.0054270	.0095110	.0159520	.0256670
35	.0001452	.0003284	.0007010	.0014175	.0027242	.0049905	.0087381	.0146602
36	.0000574	.0001365	.0003059	.0006484	.0013048	.0024995	.0045711	.0080006
37	.0000216	.0000541	.0001272	.0002829	.0005962	.0011947	.0022829	.0041703
38	.0000078	.0000204	.0000505	.0001177	.0002598	.0005449	.0010862	.0020754
39	.0000027	.0000073	.0000191	.0000467	.0001080	.0002370	.0004949	.0009859
40	.0000009	.0000025	.0000069	.0000177	.0000428	.0000983	.0002147	.0004468
41	.0000003	.0000008	.0000024	.0000064	.0000162	.0000389	.0000888	.0001932
42	.0000001	.0000003	.0000008	.0000022	.0000058	.0000147	.0000350	.0000796
43		.0000001	.0000002	.0000007	.0000020	.0000053	.0000132	.0000313
44			.0000001	.0000002	.0000007	.0000018	.0000047	.0000117
45				.0000001	.0000002	.0000006	.0000016	.0000042
46					.0000001	.0000002	.0000005	.0000014
47						.0000001	.0000002	.0000005

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999979	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
10	.9999915	.9999962	.9999983	.9999993	.9999997	.9999999	.9999999	1.0000000
11	.9999695	.9999857	.9999934	.9999970	.9999987	.9999994	.9999998	.9999999
12	.9999014	.9999517	.9999769	.9999892	.9999951	.9999978	.9999990	.9999996
13	.9997115	.9998525	.9999364	.9999641	.9999829	.9999921	.9999964	.9999984
14	.9992295	.9995891	.9997862	.9998915	.9999462	.9999740	.9999878	.9999944
15	.9981103	.9989494	.9994304	.9996988	.9998447	.9999219	.9999617	.9999817
16	.9957218	.9975214	.9986001	.9992291	.9995861	.9997833	.9998894	.9999450
17	.9910144	.9945790	.9968120	.9981724	.9989787	.9994437	.9997047	.9998478
18	.9834234	.9889615	.9932437	.9959696	.9976568	.9986723	.9992669	.9996056
19	.9717485	.9809939	.9866256	.9917017	.9949826	.9970438	.9983030	.9990509
20	.9548011	.9692853	.9775847	.9839942	.9899402	.9938393	.9963242	.9978635
21	.9307460	.9530306	.9647031	.9700878	.9810560	.9879472	.9925890	.9954888
22	.8956208	.9301560	.9487438	.9504330	.9663968	.9778012	.9857117	.9910409
23	.8024283	.8500756	.9200534	.9196951	.9436994	.9614060	.9742209	.9832234
24	.7277346	.7861389	.8760886	.8774588	.9106636	.9365050	.9560142	.9703075
25	.6418926	.7092857	.7695430	.8216872	.8653923	.9008927	.9288534	.9502161
26	.5488757	.6221854	.6907121	.7526707	.8068989	.8528735	.8906502	.9207488
27	.4537229	.5289942	.6035522	.6720405	.7355498	.7917472	.8399213	.8799478
28	.3617261	.4347571	.5093688	.5830118	.6532949	.7182059	.7762560	.8265539
29	.2775755	.3445996	.4161855	.4900075	.5635793	.6344976	.7006629	.7604478
30	.2046854	.2629207	.3279455	.3980049	.4709171	.5442711	.6156686	.6829488
31	.1448503	.1927925	.2487550	.3117544	.3803168	.4521048	.5251010	.5968869
32	.0982670	.1354890	.1813568	.2350671	.2960174	.3628154	.4335755	.5060610
33	.0638510	.0915616	.1269180	.1701628	.2211121	.2807868	.3458011	.4153351
34	.0397085	.0591087	.0851694	.1185247	.1597074	.2090697	.2658753	.3291783
35	.0236205	.0368245	.0547558	.0790749	.1104977	.1496508	.1967390	.2514569
36	.0134126	.0216703	.0336993	.0509442	.0738714	.1028264	.1390097	.1848437

$$B(n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 79$$

x	.33	.34	.35	.36	.37	.38	.39	.40
37	.0072996	.0122674	.0198419	.0309294	.0465498	.0677506	.0955013	.1305663
38	.0017690	.0066357	.0111703	.0181068	.0283113	.0427663	.0635049	.0885134
39	.0010779	.0034201	.0060094	.0101349	.0164723	.0258415	.0391883	.0578278
40	.0006883	.0016909	.0030880	.0054208	.0091686	.0149363	.0235164	.0358103
41	.0004009	.0007960	.0015149	.0027691	.0048606	.0082504	.0134967	.0213324
42	.0001726	.0003575	.0007092	.0013502	.0024714	.0043557	.0074031	.0121513
43	.0000708	.0001531	.0003167	.0006308	.0011970	.0021948	.0038783	.0066135
44	.0000277	.0000625	.0001348	.0002787	.0005530	.0010552	.0019391	.0034367
45	.0000103	.0000243	.0000547	.0001178	.0002435	.0004837	.0009248	.0017040
46	.0000037	.0000090	.0000211	.0000474	.0001022	.0002113	.0004204	.0008055
47	.0000012	.0000032	.0000078	.0000188	.0000408	.0000879	.0001820	.0003628
48	.0000004	.0000011	.0000027	.0000066	.0000155	.0000348	.0000750	.0001555
49	.0000001	.0000003	.0000009	.0000023	.0000056	.0000131	.0000294	.0000634
50		.0000001	.0000003	.0000008	.0000019	.0000047	.0000109	.0000246
51			.0000001	.0000002	.0000006	.0000016	.0000039	.0000091
52				.0000001	.0000002	.0000005	.0000013	.0000032
53					.0000001	.0000002	.0000004	.0000010
54							.0000001	.0000003
55								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999975	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
15	.9999915	.9999961	.9999983	.9999993	.9999997	.9999999	1.0000000	1.0000000
16	.9999734	.9999874	.9999942	.9999974	.9999989	.9999995	.9999998	.9999999
17	.9999230	.9999622	.9999819	.9999916	.9999962	.9999983	.9999993	.9999997
18	.9997933	.9998945	.9999476	.9999746	.9999881	.9999945	.9999976	.9999990
19	.9994830	.9997257	.9998583	.9999288	.9999652	.9999834	.9999923	.9999966
20	.9987905	.9993333	.9996428	.9998131	.9999050	.9999531	.9999775	.9999895
21	.9971470	.9984807	.9991530	.9995404	.9997574	.9998755	.9999379	.9999699
22	.9945286	.9967462	.9981162	.9989305	.9994181	.9996897	.9998398	.9999190
23	.9903652	.9934348	.9960541	.9976917	.9986061	.9992726	.9996085	.9997952
24	.9804728	.9874922	.9921990	.9952639	.9973020	.9983921	.9991015	.9995121
25	.9660542	.9774513	.9854130	.9908129	.9943687	.9966418	.9980526	.9989028
26	.9440108	.9614550	.9741507	.9831190	.9892606	.9933618	.9960060	.9976638
27	.9121958	.9373970	.9565049	.9705637	.9806022	.9875586	.9922367	.9952894
28	.8687972	.9031996	.9303744	.9511992	.9666833	.9778547	.9856754	.9909878
29	.8127809	.8572100	.8937656	.9229428	.9458338	.9625032	.9748695	.9836119
30	.7443416	.7986430	.8451973	.8838989	.9151025	.9395052	.9580173	.9716394
31	.6650665	.7279587	.7841321	.8327700	.8736051	.9068538	.9331100	.9532800
32	.5779895	.6470530	.7113168	.7692712	.8199385	.8628895	.8981974	.9263452
33	.4873228	.5591727	.6289206	.6944334	.7540750	.8067128	.8517570	.8891339
34	.3973885	.4685376	.5403918	.6106863	.6773248	.7385569	.7931025	.8402127
35	.3129282	.3797406	.4500357	.5216609	.5923662	.6600068	.7227301	.7791165
36	.2374660	.2970681	.3623971	.4317372	.5039940	.5739757	.6424941	.7066068
37	.1733729	.2238979	.2815920	.3453623	.4136219	.4844043	.5555298	.6248010
38	.1214111	.1623204	.2107406	.2665001	.3286416	.3957295	.4650046	.5370426
39	.0810546	.1130361	.1516707	.1980145	.2517933	.3122407	.3780595	.4475076
40	.0520105	.0755172	.1048338	.1414449	.1856930	.2374727	.2961642	.3606817
41	.0326273	.0483484	.0694939	.0969974	.1316110	.1737818	.2235401	.2804193
42	.0199858	.0296341	.0441345	.0637779	.0895205	.1221732	.1622792	.2099976
43	.0108976	.0173730	.0268856	.0401627	.0583637	.0823972	.1131373	.1511839
44	.0056819	.0097332	.0155901	.0241959	.0364270	.0532419	.0756218	.1044697
45	.0030301	.0052068	.0086552	.0139338	.0217498	.0329215	.0484094	.0691890
46	.0014886	.0026574	.0045862	.0076609	.0123983	.0194582	.0296403	.0438592
47	.0006971	.0012929	.0023174	.0040183	.0067473	.0109813	.0173379	.0265774
48	.0003108	.0005992	.0011157	.0020088	.0035009	.0059112	.0096780	.0153768
49	.0001318	.0002643	.0005113	.0009562	.0017302	.0030319	.0051495	.0084840
50	.0000532	.0001108	.0002228	.0004330	.0008136	.0014801	.0026088	.0044588
51	.0000204	.0000441	.0000923	.0001863	.0003637	.0006870	.0012570	.0022294
52	.0000074	.0000167	.0000363	.0000761	.0001543	.0003029	.0005754	.0010592
53	.0000025	.0000060	.0000135	.0000295	.0000631	.0001266	.0002499	.0004776
54	.0000008	.0000020	.0000048	.0000108	.0000237	.0000502	.0001028	.0002041
55	.0000003	.0000006	.0000016	.0000038	.0000085	.0000188	.0000400	.0000826
56	.0000001	.0000002	.0000005	.0000012	.0000029	.0000067	.0000147	.0000316
57		.0000001	.0000001	.0000004	.0000009	.0000022	.0000051	.0000114
58				.0000001	.0000003	.0000007	.0000017	.0000039
59					.0000001	.0000002	.0000005	.0000013
60						.0000001	.0000001	.0000004
61								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 79

c	.49	.50
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	.99999998	1.00000000
18	.99999996	.99999998
19	.99999985	.99999994
20	.99999958	.99999979
21	.99999858	.99999935
22	.99999604	.99999818
23	.99998960	.99999497
24	.99997426	.99998688
25	.99993988	.99996803
26	.99986791	.99992670
27	.99968219	.99984085
28	.99924870	.99967234
29	.99826070	.99935938
30	.99613614	.99860901
31	.99081578	.97789173
32	.98481060	.96441183
33	.97920077	.94266988
34	.97096637	.91169947
35	.95282610	.86977872
36	.92647635	.81599063
37	.89001990	.75005516
38	.84069418	.67351178
39	.78185281	.58809379
40	.71893260	.50000000
41	.65342559	.41110721
42	.58501118	.32648822
43	.51960478	.24994484
44	.45849533	.18409338
45	.40161967	.13021208
46	.34930935	.08830522
47	.30195853	.05733302
48	.25972269	.03558817
49	.22265693	.02108827
50	.19073950	.01190099
51	.16383357	.00640062
52	.14168911	.00337766
53	.12394853	.00169915
54	.11017928	.00079330
55	.10000650	.00031977
56	.09306558	.00011310
57	.08900245	.00003513
58	.08747087	.00000188
59	.08815029	.00000065
60	.09074009	.00000021
61	.09497003	.00000006
62	.10060001	.00000002

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 100$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.5524768	.8013511	.9125542	.9616321	.9834846	.9929160	.9969875	.9987383
2	.1906419	.4770865	.6961936	.8346056	.9139462	.9567474	.9788619	.9899133
3	.0465538	.2155811	.4318767	.6852121	.7693795	.8655543	.9247663	.9596220
4	.0086598	.0768550	.2199333	.3983691	.5718814	.7442184	.8494932	.8911374
5	.0018909	.0233554	.0927938	.2164881	.3711808	.5862852	.7666707	.7965001
6	.0001596	.0054495	.0333064	.1011891	.2107753	.3476372	.4918886	.6249795
7	.0000168	.0011367	.0103089	.0411718	.1058883	.2030866	.3273966	.4692831
8	.0000015	.0002063	.0027898	.0147357	.0465915	.1067527	.1964325	.3088855
9	.0000001	.0000330	.0006678	.0046844	.0184031	.0501775	.1065308	.1807544
10		.0000047	.0001428	.0013940	.0065343	.0212879	.0523964	.1051850
11		.0000006	.0000278	.0003428	.0020991	.0081955	.0234666	.0535900
12		.0000001	.0000048	.0000800	.0006136	.0030774	.0096096	.0250395
13			.0000008	.0000171	.0001641	.0009856	.0036184	.0107648
14			.0000001	.0000033	.0000403	.0002739	.0012512	.0042711
15				.0000006	.0000091	.0000749	.0004007	.0015690
16				.0000001	.0000019	.0000190	.0001190	.0005351
17					.0000004	.0000045	.0000389	.0001699
18					.0000001	.0000010	.0000085	.0000503
19						.0000002	.0000020	.0000139
20							.0000005	.0000036
21							.0000001	.0000009
22								.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9994712	.9997815	.9999106	.9999638	.9999855	.9999948	.9999977	.9999991
2	.9958071	.9978395	.9990270	.9995690	.9998101	.9999193	.9999659	.9999858
3	.9789415	.9893163	.9947128	.9974423	.9987866	.9994376	.9997438	.9998854
4	.9369100	.9646937	.9808494	.9899023	.9949184	.9973985	.9987047	.9993882
5	.8568884	.9180288	.9478655	.9701099	.9833750	.9910068	.9952630	.9975651
6	.7365982	.8230835	.8859002	.9290856	.9573976	.9751978	.9859774	.9928870
7	.5877745	.6995483	.7901673	.8591578	.9088766	.9430843	.9654944	.9797800
8	.4328862	.5544436	.6850844	.7853527	.8322310	.8876559	.9272825	.9544150
9	.2920623	.4073235	.5240149	.6329192	.7377842	.8054088	.8657501	.9104385
10	.1810368	.2765501	.3845304	.4946826	.6027966	.6982948	.7788808	.8434116
11	.1030749	.1733844	.2621288	.3635999	.4700585	.5744917	.6700386	.7527738
12	.0540080	.1004389	.1658579	.2486356	.3443295	.4662390	.5678095	.6482027
13	.0261046	.0530349	.0974407	.1654931	.2359460	.3761885	.4837825	.5595824
14	.0116693	.0262748	.0538090	.0941957	.1513107	.2999630	.3992868	.4826959
15	.0048370	.0123459	.0270462	.0522353	.0907873	.1443222	.2186089	.3934116
16	.0018637	.0053044	.0128184	.0270591	.0509950	.0878778	.1375337	.2918210
17	.0006692	.0021860	.0056745	.0131121	.0268394	.0495818	.0837113	.1309479
18	.0002244	.0007965	.0023505	.0059521	.0132509	.0264305	.0479539	.0801246
19	.0000704	.0002794	.0009135	.0025348	.0061443	.0138571	.0258684	.0468489
20	.0000207	.0000920	.0003386	.0010148	.0026791	.0068598	.0131505	.0251835
21	.0000057	.0000285	.0001140	.0003818	.0010998	.0032847	.0063053	.0129491
22	.0000015	.0000083	.0000364	.0001354	.0004256	.0014686	.0028539	.0062909
23	.0000004	.0000023	.0000112	.0000453	.0001554	.0004631	.0012805	.0028897
24	.0000001	.0000006	.0000032	.0000143	.0000516	.0001734	.0004936	.0012560
25		.0000001	.0000009	.0000043	.0000175	.0000614	.0001889	.0005170
26			.0000002	.0000012	.0000054	.0000206	.0000685	.0002016
27			.0000001	.0000003	.0000016	.0000060	.0000235	.0000746
28				.0000001	.0000004	.0000020	.0000077	.0000262
29					.0000001	.0000006	.0000024	.0000087
30						.0000002	.0000007	.0000028
31							.0000002	.0000008
32							.0000001	.0000002
33								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999942	.9999976	.9999991	.9999996	.9999999	.9999999	1.0000000	1.0000000
3	.9999496	.9999782	.9999908	.9999961	.9999984	.9999994	.9999997	.9999999
4	.9997185	.9998675	.9999401	.9999735	.9999884	.9999951	.9999979	.9999991
5	.9987775	.9993998	.9997116	.9998643	.9999374	.9999717	.9999875	.9999946
6	.9958665	.9978390	.9988967	.9994495	.9997313	.9998717	.9999400	.9999735
7	.9884137	.9935564	.9965075	.9981533	.9990465	.9995190	.9997628	.9998856
8	.9732768	.9836185	.9905829	.9947275	.9971222	.9984674	.9992032	.9995953
9	.9421172	.9637123	.9779017	.9869125	.9924543	.9957610	.9976770	.9987587
10	.8926901	.9287550	.9541048	.9712824	.9835278	.9896540	.9940329	.9966454
11	.8208344	.8742728	.9144727	.9435391	.9637930	.9774245	.9863027	.9919071
12	.7271664	.7901669	.8583137	.8994020	.9321012	.9554743	.9716090	.9823851
13	.6168525	.7021064	.7755201	.8359548	.8836609	.9198751	.9463721	.9650953
14	.4986663	.5918080	.6776801	.7589855	.8163068	.8673543	.9069410	.9365384
15	.3808195	.4759371	.5677178	.6537187	.7306221	.7964608	.8505743	.8933736
16	.2704178	.3640227	.4548877	.5445251	.6304035	.7004801	.7764923	.8334014
17	.1715474	.2648211	.3461966	.4336855	.5231769	.6076689	.6865957	.7564634
18	.1045689	.1817451	.2507436	.3292493	.4138698	.5006236	.5855050	.6649953
19	.0765440	.1183794	.1723778	.2379201	.3131031	.3949506	.4798193	.5638990
20	.0444902	.0789903	.1123941	.1634140	.2256958	.2976915	.3768064	.4597221
21	.0844012	.0486018	.0694799	.1066044	.1548295	.2140238	.2839577	.3593034
22	.0186686	.0285488	.0407190	.0660256	.1010070	.1465992	.2008641	.2668528
23	.0068240	.0123229	.0224265	.0398193	.0626376	.0955986	.1387048	.1991883
24	.0038953	.0061181	.0119244	.0216676	.0369173	.0593239	.0903759	.1411270
25	.0018761	.0028742	.0059623	.0114037	.0206791	.0350245	.0560911	.0853356
26	.0005333	.0012821	.0028296	.0057808	.0110103	.0196783	.0331514	.0509442
27	.0002114	.0005428	.0012751	.0027648	.0055734	.0105125	.0186566	.0293062
28	.0000795	.0002182	.0005459	.0012568	.0026828	.0053453	.0099973	.0164401
29	.0000284	.0000833	.0002221	.0005432	.0012284	.0025867	.0051014	.0089718
30	.0000097	.0000303	.0000859	.0002233	.0005350	.0011916	.0024791	.0046457
31	.0000031	.0000104	.0000316	.0000873	.0002319	.0005026	.0011475	.0023625
32	.0000010	.0000034	.0000111	.0000325	.0000876	.0002183	.0005060	.0011097
33	.0000003	.0000011	.0000037	.0000115	.0000319	.0000866	.0002136	.0004861
34	.0000001	.0000003	.0000012	.0000039	.0000110	.0000329	.0000851	.0002052

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 80$$

x	.17	.18	.19	.20	.21	.22	.23	.24
35		.0000001	.0000004	.0000012	.0000040	.0000119	.0000328	.0000826
36			.0000001	.0000004	.0000013	.0000041	.0000110	.0000317
37				.0000001	.0000004	.0000013	.0000041	.0000116
38					.0000001	.0000004	.0000014	.0000040
39						.0000001	.0000004	.0000013
40							.0000001	.0000004
41								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999977	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
6	.9993877	.9999946	.9999977	.9999990	.9999996	.9999998	.9999999	1.0000000
7	.9999460	.9999750	.9999887	.9999950	.9999978	.9999991	.9999996	.9999998
8	.9997921	.9999025	.9999537	.9999785	.9999902	.9999957	.9999981	.9999993
9	.9993583	.9996688	.9998356	.9999400	.9999619	.9999823	.9999919	.9999964
10	.9981607	.9990159	.9994860	.9997379	.9998604	.9999364	.9999698	.9999860
11	.9953407	.9973847	.9985681	.9992350	.9996011	.9997969	.9998990	.9999510
12	.9893589	.9937125	.9964077	.9979907	.9989037	.9994164	.9996968	.9998463
13	.9778938	.9863698	.9918130	.9952082	.9972659	.9984707	.9991744	.9995889
14	.9579033	.9728473	.9829239	.9895480	.9937666	.9963767	.9979467	.9988654
15	.9280137	.9500572	.9671896	.9790138	.9869264	.9930683	.9953070	.9978946
16	.8879284	.9146558	.9415837	.9609805	.9746333	.9839353	.9900889	.9949480
17	.8359061	.8646106	.9031091	.9325112	.9548350	.9697805	.9805649	.9878838
18	.7736254	.7981445	.8495360	.8908169	.9288607	.9469404	.9644561	.9748076
19	.6436978	.7164203	.7801846	.8340710	.8780880	.9126852	.9391258	.9586638
20	.5428363	.6287165	.6964829	.7620576	.8188286	.8647767	.9019895	.9308006
21	.4408937	.5323016	.6000605	.6766417	.7438084	.8021534	.8511025	.8988094
22	.3426341	.4321489	.5082794	.5817352	.6569308	.7254719	.7867014	.8370401
23	.2553303	.3365166	.4095360	.4827543	.5617412	.6373970	.7070781	.7491813
24	.1819485	.2493506	.3109938	.3854864	.4637114	.5428875	.6179105	.6488533
25	.1238535	.1731359	.2299045	.2960330	.3686131	.4451369	.5287689	.5486813
26	.0804743	.1168672	.1627235	.2179351	.2816048	.3520689	.4470151	.4537787
27	.0498878	.0757891	.1101595	.1536879	.2054270	.2676833	.3736144	.3693353
28	.0294957	.0469214	.0712767	.1037178	.1480142	.1953879	.2542453	.2904478
29	.0166307	.0277360	.0440552	.0669343	.0975336	.1366058	.1847070	.2218701
30	.0089397	.0156315	.0260018	.0412845	.0627590	.0915979	.1286887	.1644891
31	.0045890	.0084074	.0146504	.0243271	.0386107	.0587481	.0859030	.1210103
32	.0022391	.0043136	.0078787	.0136908	.0227054	.0360409	.0548988	.0864486
33	.0010433	.0021111	.0040435	.0073570	.0127563	.0211393	.0335696	.0598089
34	.0004635	.0009855	.0019803	.0037748	.0068454	.0118500	.0196310	.0399191
35	.0001964	.0004388	.0009253	.0018482	.0035080	.0063466	.0109744	.0258824
36	.0000793	.0001864	.0004126	.0008638	.0017164	.0032468	.0058488	.0161317
37	.0000306	.0000755	.0001755	.0003853	.0008017	.0015868	.0029988	.0097960
38	.0000113	.0000293	.0000712	.0001640	.0003574	.0007398	.0014584	.0057458
39	.0000039	.0000107	.0000276	.0000666	.0001580	.0003394	.0006788	.0033348
40	.0000013	.0000036	.0000102	.0000258	.0000617	.0001399	.0003016	.0018193
41	.0000004	.0000013	.0000036	.0000095	.0000239	.0000567	.0001279	.0009744
42	.0000001	.0000004	.0000013	.0000034	.0000088	.0000219	.0000517	.0005160
43		.0000001	.0000004	.0000011	.0000031	.0000081	.0000199	.0002668
44			.0000001	.0000004	.0000010	.0000028	.0000073	.0001350
45				.0000001	.0000003	.0000010	.0000026	.0000666
46					.0000001	.0000003	.0000009	.0000323
47						.0000001	.0000003	.0000156
48							.0000001	.0000073
49								.0000034

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999994	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999936	.9999978	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000
11	.9999768	.9999892	.9999951	.9999979	.9999991	.9999996	.9999998	.9999999
12	.9999239	.9999632	.9999827	.9999920	.9999964	.9999984	.9999993	.9999997
13	.9997743	.9998863	.9999440	.9999731	.9999874	.9999943	.9999974	.9999989
14	.9993866	.9996786	.9998358	.9999176	.9999598	.9999809	.9999911	.9999960
15	.9984795	.9991669	.9995549	.9997681	.9998832	.9999417	.9999719	.9999868
16	.9965095	.9980069	.9988907	.9993982	.9996818	.9998360	.9999176	.9999597
17	.9925677	.9955794	.9974378	.9985528	.9992035	.9995728	.9997767	.9998863
18	.9852584	.9908715	.9944926	.9967626	.9981459	.9989655	.9994377	.9997025
19	.9736582	.9823829	.9889400	.9933382	.9959780	.9976627	.9986789	.9992728
20	.9524067	.9681154	.9791890	.9867689	.9918059	.9950570	.9970959	.9983385
21	.9219848	.9456930	.9631717	.9756701	.9843432	.9901863	.9940091	.9964387
22	.8791751	.9126934	.9385396	.9578327	.9718207	.9816567	.9883704	.9938801
23	.8236218	.8671029	.9029451	.9309246	.9520974	.9676367	.9787023	.9863804
24	.7553835	.8078774	.8546263	.8927560	.9228868	.9459677	.9631148	.9754139
25	.6792204	.7354158	.7928340	.8417653	.8821437	.9144054	.9394461	.9582527
26	.5795713	.6517995	.7183039	.7775168	.8285414	.8711200	.9055494	.9385357
27	.4851833	.5606793	.6334082	.7010674	.7619490	.8149752	.8597055	.8962682
28	.3930850	.4667978	.5419830	.6150618	.6837292	.7461516	.8010855	.8479115
29	.3053452	.3752531	.4487996	.5234888	.5967741	.6663067	.7301448	.7866849
30	.2287392	.2906915	.3588295	.4311265	.5058022	.5785573	.6488164	.7139446
31	.1645959	.2166361	.2764722	.3428049	.4137758	.4871281	.5604224	.6315733
32	.1136395	.1551043	.2049461	.2626745	.3271711	.3967453	.4692705	.5423793

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 80

c	.33	.34	.35	.36	.37	.38	.39	.40
33	.0758083	.1065668	.1459714	.1936360	.2498870	.3119804	.3800331	.4516334
34	.0474755	.0701848	.0997814	.1371868	.1827540	.2352984	.2930464	.3636574
35	.0289895	.0448963	.0684008	.0938769	.1287386	.1708096	.2187027	.2805431
36	.0167946	.0276506	.0410689	.0608153	.0870451	.1206194	.1620735	.2114890
37	.0093835	.0164587	.0274920	.0379907	.0564368	.0810794	.1108806	.1508778
38	.0049475	.0093518	.0178054	.0227830	.0350596	.0522603	.0753735	.1053346
39	.0025066	.0048187	.0107157	.0130048	.0208587	.0323729	.0498818	.0699817
40	.0012149	.0023815	.0061105	.0071179	.0118678	.0190808	.0316384	.0444971
41	.0005618	.0011003	.0032655	.0037837	.0064580	.0107923	.0174044	.0271836
42	.0002479	.0005046	.0016912	.0018610	.0033587	.0058364	.0091796	.0158837
43	.0001044	.0002286	.0008541	.0008881	.0016665	.0030159	.0048530	.0088884
44	.0000419	.0000993	.0004245	.0004045	.0007913	.0014883	.0024954	.0047074
45	.0000161	.0000373	.0002087	.0001787	.0003580	.0007009	.0012804	.0024971
46	.0000059	.0000148	.0000989	.0000788	.0001545	.0003144	.0006171	.0011449
47	.0000020	.0000061	.0000454	.0000337	.0000655	.0001348	.0003750	.0005389
48	.0000007	.0000018	.0000208	.0000138	.0000269	.0000550	.0001167	.0002384
49	.0000002	.0000008	.0000095	.0000055	.0000109	.0000213	.0000472	.0001003
50	.0000001	.0000003	.0000043	.0000021	.0000043	.0000079	.0000181	.0000401
51		.0000001	.0000020	.0000008	.0000016	.0000028	.0000066	.0000153
52			.0000009	.0000003	.0000006	.0000009	.0000023	.0000055
53			.0000004	.0000001	.0000002	.0000003	.0000008	.0000019
54			.0000002		.0000001	.0000001	.0000002	.0000006
55			.0000001				.0000001	.0000002
56								.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999968	.9999991	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
15	.9999833	.9999973	.9999992	.9999998	.9999999	.9999999	1.0000000	1.0000000
16	.9999408	.9999911	.9999960	.9999988	.9999998	.9999997	.9999999	.9999999
17	.9998436	.9999728	.9999872	.9999942	.9999974	.9999989	.9999995	.9999998
18	.9998445	.9999289	.9999684	.9999881	.9999917	.9999963	.9999984	.9999993
19	.9996108	.9997964	.9998967	.9999490	.9999755	.9999848	.9999948	.9999977
20	.9990744	.9994901	.9997351	.9998640	.9999391	.9999670	.9999845	.9999929
21	.9979388	.9988388	.9993633	.9996604	.9998236	.9999118	.9999565	.9999793
22	.9956041	.9974747	.9985220	.9992034	.9995708	.9997752	.9998856	.9999434
23	.9914882	.9948356	.9969408	.9984403	.9990135	.9994645	.9997169	.9998546
24	.9841187	.9899881	.9938567	.9963321	.9978609	.9987971	.9993398	.9996480
25	.9719458	.9816488	.9883310	.9927713	.9954437	.9974470	.9984854	.9991950
26	.9530486	.9681735	.9789935	.9865043	.9915637	.9948706	.9969679	.9982582
27	.9258399	.9475014	.9640926	.9774080	.9851021	.9900281	.9940083	.9963291
28	.8865907	.9175685	.9416105	.9557195	.9749468	.9823185	.9887592	.9930583
29	.8357823	.8765857	.9095074	.9333756	.9550511	.9695449	.9799482	.9871521
30	.7784050	.8332412	.8660817	.9010708	.9287966	.9500843	.9659378	.9773868
31	.6975693	.7576461	.8103901	.8582667	.8923789	.9218735	.9448165	.9620613
32	.6136911	.6810354	.7426274	.7997107	.8440885	.8831131	.9146064	.9392451
33	.5244372	.5940885	.6643510	.7273620	.7837136	.8325541	.8735940	.9069953
34	.4348804	.5046044	.5784592	.6475350	.7118484	.7699086	.8204701	.8636948
35	.3478549	.4170355	.4988088	.5608321	.6308976	.6961398	.7550051	.8084427
36	.2684055	.3317907	.4200817	.4718981	.5438115	.6135600	.6802050	.7414115
37	.1996511	.2546294	.3463382	.3833629	.4538394	.5256072	.5964030	.6640678
38	.1438334	.1881830	.2811118	.3011995	.3668027	.4365199	.5080284	.5791666
39	.0981348	.1337355	.2270793	.2311482	.2863750	.3504451	.4193447	.4904044
40	.0647186	.0918751	.1849775	.1663355	.2154381	.2718458	.3346550	.4083949
41	.0409084	.0597593	.0846900	.1165543	.1559479	.2030796	.2576734	.3189164
42	.0247358	.0374941	.0550390	.0783945	.1084618	.1452131	.1910710	.2439000
43	.0143360	.0225287	.0348684	.0505534	.0725837	.1006548	.1362207	.1794145
44	.0079384	.0129419	.0210214	.0311218	.0484980	.0666533	.0932494	.1266925
45	.0041994	.0071079	.0114372	.0184492	.0305507	.0432689	.0611993	.0861837
46	.0021207	.0037881	.0060389	.0104807	.0186033	.0266513	.0384616	.0560175
47	.0010817	.0018660	.0030930	.0056211	.0109908	.0160007	.0231200	.0340727
48	.0005498	.0008908	.0015384	.0028936	.0062418	.0092434	.0132748	.0200931
49	.0002858	.0004049	.0007718	.0014193	.0034270	.0051564	.0073779	.0113986
50	.0001454	.0001752	.0003869	.0006832	.0018261	.0027939	.0038029	.0063909
51	.0000738	.0000781	.0001884	.0003248	.0009662	.0014519	.0019924	.0034995
52	.0000387	.0000382	.0000903	.0001546	.0004986	.0007596	.0010257	.0018809
53	.0000195	.0000183	.0000433	.0000500	.0002477	.0003877	.0005089	.0009568
54	.0000095	.0000087	.0000205	.0000190	.0001036	.0001910	.0002477	.0004789
55	.0000045	.0000037	.0000085	.0000070	.0000410	.0000853	.0001179	.0002354
56	.0000021	.0000016	.0000030	.0000049	.0000154	.0000332	.0000495	.0001109
57	.0000009	.0000007	.0000013	.0000016	.0000054	.0000122	.0000266	.0000510
58	.0000004	.0000003	.0000005	.0000008	.0000018	.0000043	.0000094	.0000231
59	.0000002	.0000001	.0000002	.0000002	.0000006	.0000014	.0000033	.0000098
60	.0000001		.0000001	.0000001	.0000002	.0000004	.0000011	.0000038
61						.0000001	.0000003	.0000013
62							.0000001	.0000004
63								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 80

c	.49	.50
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	.9999999	1.0000000
18	.9999997	.9999999
19	.9999990	.9999996
20	.9999968	.9999986
21	.9999904	.9999957
22	.9999728	.9999874
23	.9999275	.9999649
24	.9998178	.9999084
25	.9995673	.9997742
26	.9990282	.9994736
27	.9979325	.9988377
28	.9958271	.9975659
29	.9919982	.9951586
30	.9854017	.9908420
31	.9746276	.9835037
32	.9579314	.9716678
33	.9333679	.9535441
34	.8990403	.9271823
35	.8534483	.8907410
36	.7958773	.8428467
37	.7267356	.7829789
38	.6477375	.7117847
39	.5618505	.6312228
40	.4729840	.5444639
41	.3854679	.4555361
42	.3034347	.3687772
43	.2302482	.2882153
44	.1681080	.2170211
45	.1179030	.1571533
46	.0793141	.1092590
47	.0511043	.0728177
48	.0314976	.0464559
49	.0185465	.0283322
50	.0104204	.0164963
51	.0055797	.0091580
52	.0028440	.0048414
53	.0013781	.0024341
54	.0006340	.0011623
55	.0002766	.0005264
56	.0001142	.0002258
57	.0000446	.0000916
58	.0000164	.0000351
59	.0000057	.0000126
60	.0000019	.0000043
61	.0000006	.0000014
62	.0000002	.0000004
63		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 81

c	.01	.02	.03	.04	.05	.06	.07	.08
1	.5569580	.8053241	.9151776	.9633588	.9843104	.9933418	.9978003	.9988337
2	.1944582	.4835130	.7026844	.8396947	.9174231	.9589176	.9801308	.9906188
3	.0479961	.2208100	.4398063	.6335878	.7766078	.8710258	.9287399	.9680453
4	.0090381	.0796295	.2257096	.4074428	.5814428	.7232930	.8268764	.8966162
5	.0013646	.0234454	.0965895	.2237000	.3811418	.5394127	.6773683	.7856711
6	.0001709	.0057876	.0350910	.1057984	.2187926	.3586622	.5010675	.6371011
7	.0000183	.0012230	.0109988	.0435725	.1105598	.2125236	.3388417	.4734588
8	.0000017	.0002249	.0030154	.0157931	.0495262	.1125908	.2055951	.3209971
9	.0000001	.0000365	.0007315	.0050865	.0198125	.0535720	.1228239	.1983648
10		.0000053	.0001585	.0014680	.0071277	.0230213	.0561858	.1118706
11		.0000007	.0000309	.0003825	.0023209	.0089810	.0254916	.0577176
12		.0000001	.0000055	.0000905	.0006879	.0031965	.0105796	.0273235
13			.0000009	.0000196	.0001865	.0010427	.0040322	.0119062
14			.0000001	.0000039	.0000468	.0003130	.0014165	.0047905
15				.0000007	.0000107	.0000868	.0004602	.0017851
16				.0000001	.0000023	.0000223	.0001387	.0006178
17					.0000005	.0000053	.0000389	.0001991
18					.0000001	.0000012	.0000102	.0000599
19						.0000002	.0000025	.0000169
20							.0000006	.0000044
21							.0000001	.0000011
22								.0000003
23								.0000001

c	.09	.10	.11	.12	.13	.14	.15	.16
1	.9995188	.9998034	.9999205	.9999682	.9999874	.9999951	.9999981	.9999993
2	.9956636	.9980337	.9991242	.9996164	.9998346	.9999298	.9999707	.9999879
3	.9844126	.9901686	.9951874	.9976975	.9989217	.9995050	.9997771	.9999014
4	.9406928	.9671560	.9823744	.9908071	.9953293	.9976840	.9988776	.9994677
5	.8640913	.9172953	.9514938	.9724850	.9848618	.9919033	.9957823	.9978568
6	.7474189	.8319780	.8927164	.9340085	.9607746	.9774113	.9873702	.9931315
7	.6018591	.7119019	.8006979	.8675491	.9151843	.9475286	.9685669	.9817307
8	.4463801	.5889541	.6788435	.7704493	.8421949	.8954075	.9330143	.9584638
9	.3046915	.4630355	.5595325	.6479712	.7413101	.8169228	.8749799	.9174697
10	.1910291	.3267874	.3998737	.5125030	.6190372	.7132907	.7919112	.8541349
11	.1100915	.1837013	.2755930	.3794978	.4874884	.5918241	.6863650	.7672758
12	.0584240	.1077335	.1764477	.2624313	.3606153	.4641943	.5661439	.6604880
13	.0286159	.0584955	.1049666	.1693102	.2500229	.3429955	.4423069	.5418348
14	.0129685	.0294574	.0580745	.1019114	.1623133	.2382746	.3264697	.4210770
15	.0054519	.0137862	.0299241	.0572706	.0986554	.1554719	.2271121	.3108971
16	.0021313	.0060086	.0143835	.0300803	.0561580	.0950635	.1487049	.2164755
17	.0007767	.0024439	.0064603	.0147857	.0299797	.0548329	.0917847	.1422870
18	.0002644	.0009294	.0027161	.0068113	.0150174	.0296674	.0533175	.0882562
19	.0000843	.0003311	.0010707	.0029449	.0070601	.0151013	.0291813	.0516639
20	.0000252	.0001107	.0003964	.0011967	.0031296	.0072387	.0150582	.0285590
21	.0000071	.0000348	.0001380	.0004577	.0013051	.0032711	.0073320	.0149066
22	.0000019	.0000103	.0000453	.0001650	.0005133	.0013948	.0033716	.0073562
23	.0000005	.0000029	.0000140	.0000561	.0001906	.0005618	.0014655	.0034339
24	.0000001	.0000008	.0000041	.0000180	.0000669	.0002140	.0006026	.0015174
25		.0000002	.0000011	.0000055	.0000222	.0000771	.0002346	.0006358
26			.0000003	.0000016	.0000070	.0000263	.0000866	.0002521
27			.0000001	.0000004	.0000021	.0000085	.0000303	.0000949
28				.0000001	.0000006	.0000026	.0000101	.0000339
29					.0000002	.0000008	.0000032	.0000115
30						.0000002	.0000009	.0000037
31						.0000001	.0000003	.0000011
32							.0000001	.0000003
33								.0000001

c	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999951	.9999980	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
3	.9999578	.9999817	.9999923	.9999968	.9999987	.9999995	.9999998	.9999999
4	.9997388	.9998872	.9999498	.9999750	.9999905	.9999960	.9999983	.9999993
5	.9989364	.9994840	.9997550	.9998861	.9999484	.9999769	.9999899	.9999957
6	.9963614	.9981199	.9990516	.9995325	.9997746	.9998937	.9999509	.9999778
7	.9896807	.9943273	.9969615	.9984125	.9991904	.9995966	.9998035	.9999064
8	.9750201	.9854073	.9917086	.9954127	.9975263	.9986988	.9993319	.9996649
9	.9479443	.9672954	.9803111	.9884755	.9934346	.9963564	.9980286	.9989595
10	.9011802	.9350473	.9586262	.9744084	.9846123	.9909976	.9948712	.9971526
11	.8330514	.8840796	.9220028	.9490876	.9677273	.9801150	.9880806	.9930443
12	.7430899	.8118660	.8665539	.9082294	.9387565	.9603032	.9749885	.9846704
13	.6356058	.7193973	.7906825	.8486443	.8938334	.9277069	.9521766	.9692448
14	.5187580	.6116618	.6962214	.7695794	.8304511	.8789089	.9160101	.9433898
15	.4085135	.4967939	.5885998	.6735721	.7486158	.8120574	.8635386	.9037325
16	.2961661	.3841673	.4758394	.5663638	.6514494	.7278359	.7935311	.8477948
17	.2063153	.2881854	.3667539	.4558054	.5449045	.6298474	.7072719	.7749885
18	.1359203	.1965907	.2688796	.3501245	.4366143	.5241736	.6087559	.6869477
19	.0847072	.1297652	.1872673	.2561859	.3342641	.4181987	.5041970	.5881621
20	.0499061	.0811603	.1237910	.1783158	.2440513	.3190885	.4004994	.4847246
21	.0278095	.0480717	.0776736	.1179665	.1697114	.2324307	.3045429	.3834647
22	.0146631	.0269734	.0461836	.0741414	.1123097	.1614326	.2212857	.2908797
23	.0073196	.0143425	.0260641	.0442606	.0706952	.1068188	.1534610	.2105830
24	.0034613	.0072301	.0139578	.0250979	.0423185	.0673044	.1014914	.1457603
25	.0015814	.0034570	.0070951	.0135205	.0240891	.0403704	.0639766	.0963855
26	.0006896	.0015607	.0034248	.0069214	.0130408	.0230498	.0384275	.0607181
27	.0002861	.0006758	.0015705	.0033680	.0067151	.0125276	.0219904	.0364993
28	.0001020	.0002766	.0006845	.0015584	.0032899	.0064821	.0119889	.0209199
29	.0000371	.0001076	.0002836	.0006859	.0015339	.0031956	.0062274	.0114317
30	.0000128	.0000398	.0001118	.0002873	.0006808	.0014985	.0030822	.0059558
31	.0000042	.0000140	.0000419	.0001145	.0002877	.0006698	.0014538	.0029585
32	.0000013	.0000047	.0000150	.0000435	.0001158	.0002852	.0006536	.0014013
33	.0000004	.0000015	.0000051	.0000157	.0000444	.0001157	.0002801	.0006329

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 61

x	.17	.18	.19	.20	.21	.22	.23	.24
34	.0000001	.0000005	.0000016	.0000054	.0000162	.0000448	.0001144	.0002726
35		.0000001	.0000005	.0000018	.0000057	.0000165	.0000446	.0001120
36			.0000001	.0000006	.0000019	.0000058	.0000166	.0000439
37				.0000002	.0000006	.0000019	.0000059	.0000154
38					.0000002	.0000006	.0000020	.0000058
39					.0000001	.0000002	.0000006	.0000020
40						.0000001	.0000002	.0000006
41							.0000001	.0000002
42								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999982	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999902	.9999957	.9999982	.9999992	.9999997	.9999999	1.0000000	1.0000000
7	.9999564	.9999801	.9999911	.9999961	.9999983	.9999993	.9999997	.9999999
8	.9998358	.9999213	.9999632	.9999831	.9999924	.9999967	.9999986	.9999994
9	.9994640	.9997303	.9998675	.9999364	.9999701	.9999863	.9999939	.9999973
10	.9984586	.9991860	.9995804	.9997889	.9998962	.9999502	.9999756	.9999893
11	.9960457	.9978088	.9988160	.9993758	.9996789	.9998388	.9999210	.9999622
12	.9908544	.9946858	.9969910	.9983391	.9991060	.9995306	.9997595	.9998798
13	.9807601	.9882849	.9930536	.9959873	.9977408	.9987600	.9993364	.9996536
14	.9629009	.9763482	.9853240	.9911328	.9947814	.9970073	.9983273	.9990886
15	.9339861	.9559774	.9714379	.9819633	.9889100	.9933587	.9961253	.9977972
16	.8909352	.9240062	.9484973	.9660356	.9781983	.9863743	.9917065	.9950828
17	.8317402	.8776743	.9134972	.9404848	.9601505	.9740269	.9835174	.9898135
18	.7562956	.8154294	.8640008	.9024927	.9319649	.9537938	.9694498	.9803328
19	.6668797	.7376699	.7989095	.8499604	.8910318	.9229624	.9469780	.9644694
20	.5680516	.6470795	.7190823	.7822213	.8355946	.8791492	.9135037	.9397166
21	.4659293	.5484095	.6275545	.7005581	.7654001	.8209404	.8668775	.9036067
22	.3670490	.4477076	.5292203	.6083090	.6821178	.7484761	.8060310	.8542463
23	.2771578	.3512120	.4300289	.5104690	.5893449	.6637781	.7314761	.7908961
24	.2002942	.2642412	.3359181	.4128653	.4921408	.5705686	.6455525	.7144223
25	.1383764	.1903944	.2517986	.3211359	.3961916	.4742215	.5522609	.6274520
26	.0913189	.1312371	.1808616	.2398025	.3068372	.3799849	.4566979	.5341379
27	.0575340	.0864694	.1243513	.1716771	.2282286	.2929972	.3642245	.4395572
28	.0345936	.0544284	.0817750	.1177094	.1628239	.2170555	.2765936	.3488216
29	.0198462	.0327173	.0514050	.0772337	.1113030	.1542875	.2062645	.2666068
30	.0108622	.0187760	.0308762	.0484664	.0738436	.1051243	.1450546	.1958396
31	.0056714	.0102857	.0177153	.0290752	.0456152	.0686030	.0991666	.1381139
32	.0028249	.0053780	.0097070	.0166689	.0273185	.0428531	.0645102	.0934258
33	.0013423	.0026938	.0050790	.0091304	.0156415	.0256098	.0401817	.0605635
34	.0006085	.0012782	.0025373	.0048774	.0085596	.0146368	.0239520	.0376023
35	.0002632	.0005810	.0012102	.0023875	.0044759	.0079976	.0136580	.0223477
36	.0001086	.0002520	.0005510	.0011394	.0022360	.0041767	.0074474	.0127079
37	.0000427	.0001043	.0002395	.0005192	.0010670	.0020844	.0038821	.0069114
38	.0000161	.0000412	.0000993	.0002259	.0004862	.0009937	.0019340	.0035938
39	.0000058	.0000155	.0000393	.0000938	.0002116	.0004525	.0009206	.0017861
40	.0000020	.0000056	.0000149	.0000372	.0000879	.0001968	.0004185	.0008482
41	.0000006	.0000019	.0000054	.0000141	.0000349	.0000817	.0001817	.0003847
42	.0000002	.0000006	.0000018	.0000051	.0000132	.0000324	.0000753	.0001667
43	.0000001	.0000002	.0000006	.0000017	.0000048	.0000122	.0000298	.0000689
44		.0000001	.0000002	.0000006	.0000016	.0000044	.0000112	.0000272
45			.0000001	.0000002	.0000005	.0000015	.0000040	.0000102
46				.0000001	.0000002	.0000005	.0000014	.0000037
47					.0000001	.0000002	.0000005	.0000013
48							.0000001	.0000004
49								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999968	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999952	.9999979	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000
11	.9999823	.9999919	.9999964	.9999984	.9999993	.9999997	.9999999	1.0000000
12	.9999413	.9999721	.9999870	.9999941	.9999974	.9999989	.9999995	.9999998
13	.9998236	.9999184	.9999576	.9999799	.9999908	.9999958	.9999982	.9999992
14	.9995158	.9997492	.9998733	.9999376	.9999700	.9999860	.9999936	.9999972
15	.9987795	.9993409	.9996530	.9998220	.9999110	.9999566	.9999794	.9999905
16	.9971596	.9984013	.9991232	.9995314	.9997559	.9998762	.9999388	.9999705
17	.9938685	.9964048	.9979463	.9988572	.9993804	.9996728	.9998317	.9999157
18	.9876705	.9921722	.9955234	.9974071	.9988372	.9993962	.9995699	.9997759
19	.9768163	.9852690	.9908847	.9945070	.9967763	.9983577	.9989748	.9994446
20	.9590897	.9729650	.9826025	.9890978	.9933473	.9960472	.9977133	.9987122
21	.9320236	.9533160	.9687777	.9796657	.9871044	.9920371	.9952130	.9971986
22	.8933001	.9239133	.9471543	.9642542	.9764540	.9848979	.9905695	.9942675
23	.8408034	.8886037	.9153996	.9406115	.9593951	.9729643	.9824729	.9889383
24	.7745622	.8380140	.8715378	.9064967	.9336948	.9542080	.9691940	.9798245
25	.6973343	.7600527	.8144613	.8601219	.8972180	.9264115	.9486769	.9651412
26	.6094855	.6802291	.7443888	.8006462	.8483739	.8875765	.9187691	.9426225
27	.5162911	.5916601	.6631213	.7285892	.7865882	.8363105	.8775846	.9107752
28	.4227877	.4987175	.5739818	.6460238	.7126705	.7723046	.8239473	.8672542
29	.3339693	.4063783	.4814138	.5564551	.6289475	.6966478	.7578113	.8112985
30	.2540192	.3194425	.3903191	.4643769	.5390838	.6119021	.6805342	.7431227
31	.1857632	.2418149	.3052973	.3746007	.4476036	.5218712	.5948961	.6643418

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 81$$

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
32	.1304851	.1760250	.2299802	.2915215	.3592148	.4310908	.5048197	.5779369
33	.0878906	.1230691	.1666125	.2183087	.2781041	.3441539	.4148357	.4879318
34	.0567614	.0835620	.1159479	.1573183	.2073712	.2650324	.3294113	.3988358
35	.0351157	.0531023	.0774356	.1090842	.1487243	.1965761	.2529068	.3149808
36	.0207991	.0327228	.0495848	.0723014	.1024717	.1408313	.1861089	.2399106
37	.0117890	.0193080	.0304239	.0462076	.0677619	.0961046	.1320898	.1759619
38	.0063916	.0109031	.0178757	.0282194	.0429691	.0632116	.0899779	.1241116
39	.0033134	.0058897	.0100521	.0165034	.0261092	.0398681	.0588475	.0840868
40	.0016418	.0030422	.0054073	.0092372	.0151918	.0240935	.0369032	.0546669
41	.0007773	.0015019	.0027013	.0049456	.0084594	.0139417	.0221717	.0340730
42	.0003515	.0007084	.0013672	.0025316	.0045055	.0077196	.0127533	.0203437
43	.0001518	.0003191	.0006721	.0012384	.0022939	.0040877	.0070184	.0116256
44	.0000625	.0001372	.0003279	.0005786	.0011159	.0020588	.0036928	.0063559
45	.0000246	.0000563	.0001532	.0002581	.0005163	.0010001	.0018566	.0033218
46	.0000092	.0000220	.0000693	.0001098	.0002298	.0004615	.0008914	.0016570
47	.0000033	.0000088	.0000296	.0000446	.0000972	.0002038	.0004084	.0007899
48	.0000011	.0000033	.0000073	.0000172	.0000392	.0000853	.0001764	.0003590
49	.0000004	.0000010	.0000026	.0000064	.0000150	.0000341	.0000743	.0001555
50	.0000001	.0000003	.0000009	.0000022	.0000055	.0000130	.0000295	.0000648
51		.0000001	.0000003	.0000007	.0000019	.0000047	.0000111	.0000252
52			.0000001	.0000002	.0000006	.0000016	.0000040	.0000094
53				.0000001	.0000002	.0000005	.0000014	.0000033
54					.0000001	.0000002	.0000004	.0000011
55							.0000001	.0000004

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999957	.9999981	.9999992	.9999997	.9999999	.9999999	1.0000000	1.0000000
16	.9999862	.9999937	.9999972	.9999988	.9999995	.9999998	.9999999	1.0000000
17	.9999589	.9999805	.9999910	.9999959	.9999982	.9999992	.9999997	.9999999
18	.9998863	.9999439	.9999730	.9999874	.9999943	.9999975	.9999989	.9999995
19	.9997071	.9998497	.9999249	.9999635	.9999828	.9999921	.9999965	.9999985
20	.9992941	.9996238	.9998046	.9999014	.9999516	.9999769	.9999893	.9999952
21	.9984044	.9991157	.9995232	.9997500	.9998726	.9999369	.9999696	.9999858
22	.9966086	.9980476	.9989066	.9994045	.9996847	.9998377	.9999189	.9999606
23	.9932050	.9959382	.9976379	.9986641	.9992654	.9996074	.9997968	.9998973
24	.9871377	.9920198	.9951829	.9971717	.9983854	.9991041	.9995171	.9997478
25	.9769485	.9851627	.9907070	.9943381	.9966455	.9980680	.9989169	.9994184
26	.9608046	.9730414	.9830086	.9892618	.9933997	.9960557	.9977094	.9987079
27	.9366415	.9561837	.9705000	.9806712	.9876798	.9923636	.9953993	.9973071
28	.9024369	.9301369	.9518778	.9669217	.9781467	.9859569	.9912863	.9946731
29	.8565961	.8937612	.9233117	.9460869	.9631042	.9754316	.9840094	.9899642
30	.7983774	.8456207	.8847547	.9161691	.9406111	.9590454	.9725827	.9820736
31	.7282519	.7851960	.8343375	.8754238	.9087119	.9348504	.9547435	.9691173
32	.6480011	.7132107	.7717654	.8227554	.8657742	.9009429	.9288061	.9501969
33	.5610313	.6317619	.6980098	.7580955	.8108823	.8558113	.8928645	.9224758
34	.4713094	.5441858	.6153286	.6826589	.7441954	.7987255	.8458397	.8844791
35	.3830890	.4546544	.5274041	.5989814	.6671667	.7300735	.7862917	.8349637
36	.3008576	.3675935	.4388688	.5106930	.5825352	.6515413	.7157370	.7738865
37	.2278404	.2870371	.3523479	.4220543	.4940568	.5660609	.6357899	.7011980
38	.1661287	.2160905	.2735158	.3373514	.4060132	.4775000	.5495648	.6199198
39	.1164730	.1566014	.2046560	.2602907	.3226035	.3901476	.4610271	.5330519
40	.0784274	.1091085	.1473813	.1935331	.2473597	.3081044	.3744601	.4446425
41	.0506670	.0729959	.1020137	.1384581	.1827185	.2347213	.2938548	.3569535
42	.0313759	.0468415	.0677890	.0951848	.1298302	.1722097	.2223746	.2799559
43	.0186086	.0288107	.0431998	.0629034	.0886186	.1214949	.1620080	.2103195
44	.0105417	.0169658	.0263736	.0397277	.0580366	.0823121	.1134497	.1521031
45	.0057323	.0095582	.0154144	.0240692	.0364270	.0534857	.0762628	.1036927
46	.0029730	.0051476	.0086155	.0139533	.0218896	.0332954	.0491484	.0704685
47	.0014723	.0026481	.0046014	.0077329	.0125811	.0198353	.0303307	.0450828
48	.0006957	.0013008	.0023465	.0040933	.0069096	.0112966	.0179039	.0275305
49	.0003134	.0006089	.0011415	.0020678	.0036287	.0061444	.0100980	.0160936
50	.0001345	.0002717	.0005293	.0009959	.0018115	.0031887	.0054362	.0089837
51	.0000550	.0001154	.0002337	.0004569	.0008631	.0015772	.0027903	.0047834
52	.0000214	.0000467	.0000932	.0001995	.0003915	.0007428	.0013642	.0024667
53	.0000079	.0000172	.0000392	.0000828	.0001688	.0003328	.0006345	.0011716
54	.0000028	.0000065	.0000149	.0000326	.0000692	.0001416	.0002805	.0005377
55	.0000009	.0000023	.0000054	.0000123	.0000269	.0000572	.0001177	.0002343
56	.0000003	.0000007	.0000018	.0000043	.0000099	.0000219	.0000460	.0000960
57	.0000001	.0000002	.0000006	.0000013	.0000035	.0000079	.0000176	.0000379
58		.0000001	.0000002	.0000005	.0000011	.0000027	.0000063	.0000140
59			.0000001	.0000001	.0000004	.0000009	.0000021	.0000049
60					.0000001	.0000003	.0000007	.0000016
61						.0000001	.0000002	.0000005
62							.0000001	.0000001

$$I(e,n,x) = \sum_{r=n}^{n} \binom{n}{r} x^r (1-x)^{n-r} \qquad n = r+1$$

k	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	.9999998	.9999999
19	.9999994	.9999997
20	.9999979	.9999991
21	.9999936	.9999972
22	.9999815	.9999915
23	.9999497	.9999763
24	.9998716	.9999367
25	.9996900	.9998413
26	.9992923	.9996239
27	.9984694	.9991557
28	.9968588	.9982018
29	.9938744	.9963622
30	.9886340	.9930003
31	.9799069	.9871728
32	.9661125	.9775857
33	.9454040	.9626059
34	.9158608	.9403632
35	.8757884	.9089616
36	.8240871	.8667938
37	.7606150	.8129128
38	.6864466	.7473810
39	.6039351	.6715038
40	.5165286	.5878434
41	.4283508	.5000000
42	.3416310	.4121566
43	.2661096	.3284962
44	.1985547	.2526192
45	.1425036	.1870878
46	.0982227	.1332062
47	.0649271	.0910384
48	.0411049	.0596368
49	.0248925	.0373941
50	.0144022	.0224143
51	.0079517	.0128272
52	.0041845	.0069997
53	.0020964	.0036378
54	.0009986	.0017982
55	.0004517	.0008443
56	.0001938	.0003761
57	.0000787	.0001587
58	.0000302	.0000633
59	.0000110	.0000238
60	.0000037	.0000085
61	.0000012	.0000028
62	.0000004	.0000009
63	.0000001	.0000003
64		.0000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 82

c \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.5613825	.8098176	.9177283	.9648244	.9850949	.9937413	.9973968	.9989870
2	.1980832	.4099492	.7090592	.8446412	.9207875	.9609830	.9813257	.9912760
3	.0494607	.2860641	.4476926	.6418321	.7836486	.8762993	.9323364	.9643318
4	.0094277	.0824531	.2321385	.4164886	.5912010	.7321569	.8340067	.9018505
5	.0014413	.0245691	.1004631	.2310497	.3911568	.5504455	.6878338	.7945467
6	.0001829	.0061407	.0369359	.1105144	.2269100	.3695073	.5161986	.6489867
7	.0000197	.0013143	.0117216	.0460616	.1159714	.2212919	.3504075	.4865502
8	.0000018	.0002448	.0033549	.0169043	.0525779	.1185773	.2149283	.3331940
9	.0000002	.0000408	.0008000	.0055147	.0213962	.0571135	.1193179	.2001754
10		.0000059	.0001757	.0016128	.0077620	.0248544	.0601505	.1187901
11		.0000008	.0000340	.0004259	.0025612	.0098234	.0276402	.0620499
12		.0000001	.0000062	.0001022	.0007695	.0035436	.0116235	.0297550
13			.0000010	.0000224	.0002116	.0011719	.0044905	.0131396
14			.0000002	.0000045	.0000535	.0003568	.0015996	.0053598
15				.0000008	.0000125	.0001004	.0005272	.0020256
16				.0000001	.0000027	.0000262	.0001612	.0007118
17					.0000005	.0000064	.0000459	.0002326
18					.0000001	.0000014	.0000122	.0000710
19						.0000003	.0000030	.0000203
20						.0000001	.0000007	.0000054
21							.0000002	.0000014
22								.0000003
23								.0000001

c \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9995681	.9998230	.9999292	.9999720	.9999890	.9999957	.9999984	.9999994
2	.9960106	.9982107	.9992117	.9996586	.9998545	.9999389	.9999748	.9999897
3	.9817852	.9909552	.9956204	.9979278	.9990404	.9995645	.9998061	.9999153
4	.9428676	.9694573	.9837838	.9916340	.9957963	.9979389	.9990125	.9995371
5	.8709846	.9222813	.9548906	.9746837	.9862286	.9927126	.9962466	.9981146
6	.7579193	.8405097	.8991019	.9386257	.9639060	.9794408	.9886320	.9938876
7	.6144135	.7239095	.8108199	.8755248	.9211111	.9517122	.9713674	.9835548
8	.4603192	.5832489	.6922475	.7821013	.8516035	.9027044	.9383472	.9621865
9	.3174434	.4367274	.5548567	.6626686	.7544251	.8279107	.8836851	.9240288
10	.2012587	.3028682	.4152362	.5287592	.6349327	.7277992	.8043715	.8642685
11	.1173759	.1942936	.2892639	.3954585	.5045098	.6088294	.7021969	.7811733
12	.0630741	.1153302	.1873537	.2764793	.3771071	.4820625	.5841770	.6775740
13	.0312986	.0634191	.1128295	.1804847	.2643997	.3599634	.4609504	.5608193
14	.0143768	.0323612	.0632326	.1099992	.1737155	.2529355	.3438573	.4410709
15	.0061284	.0153533	.0330207	.0636275	.1069309	.1670643	.2420157	.3286540
16	.0024302	.0067863	.0160929	.0353491	.0616914	.1036927	.1605425	.2315829
17	.0008986	.0028003	.0073319	.0186211	.0333041	.0604931	.1003362	.1541572
18	.0003105	.0010809	.0031280	.0077682	.0169625	.0331906	.0590876	.0969018
19	.0001005	.0003910	.0012517	.0030089	.0081013	.0171406	.0328017	.0575187
20	.0000305	.0001328	.0004706	.0014065	.0036416	.0083396	.0171767	.0322508
21	.0000087	.0000424	.0001664	.0005464	.0015423	.0038266	.0084910	.0170900
22	.0000023	.0000127	.0000555	.0002001	.0006162	.0016575	.0039657	.0085648
23	.0000006	.0000036	.0000174	.0000692	.0002325	.0006785	.0017514	.0040614
24	.0000001	.0000010	.0000052	.0000226	.0000829	.0002627	.0007320	.0018240
25		.0000002	.0000015	.0000070	.0000280	.0000963	.0002898	.0007764
26		.0000001	.0000004	.0000020	.0000090	.0000334	.0001088	.0003134
27			.0000001	.0000006	.0000027	.0000110	.0000387	.0001201
28				.0000001	.0000008	.0000034	.0000131	.0000437
29					.0000002	.0000010	.0000048	.0000151
30					.0000001	.0000003	.0000013	.0000050
31						.0000001	.0000004	.0000016
32							.0000001	.0000005
33								.0000001

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999959	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
3	.9999636	.9999847	.9999936	.9999974	.9999990	.9999996	.9999998	.9999999
4	.9997875	.9999044	.9999578	.9999818	.9999923	.9999968	.9999987	.9999995
5	.9990752	.9995566	.9997920	.9999045	.9999571	.9999811	.9999918	.9999965
6	.9967991	.9983655	.9991852	.9996032	.9998111	.9999120	.9999599	.9999821
7	.9908164	.9950100	.9973586	.9986365	.9993130	.9996680	.9998374	.9999236
8	.9775184	.9870189	.9927066	.9960126	.9978757	.9988963	.9994404	.9997829
9	.9519662	.9705555	.9824765	.9898629	.9942938	.9968717	.9983284	.9991288
10	.9089447	.9408520	.9627463	.9772219	.9864650	.9921763	.9955974	.9979863
11	.8446197	.8932538	.9289612	.9541519	.9712731	.9825092	.9896425	.9940303
12	.7583834	.8248644	.8770892	.9164011	.9448403	.9646618	.9779997	.9866801
13	.6538781	.7360417	.8050980	.8605613	.9032672	.9348781	.9574233	.9729470
14	.5386281	.6310542	.7141690	.7853924	.8437614	.8896445	.9243884	.9495950
15	.4222750	.5174701	.6090474	.6927735	.7658013	.8867647	.8756071	.9138502
16	.3142451	.4044401	.4972638	.5878055	.6718543	.7463646	.8096389	.8612198
17	.2215900	.3005421	.3874639	.4779171	.5672789	.6514049	.7271116	.7924164
18	.1479124	.2119778	.2874719	.3712607	.4593553	.5474218	.6314146	.7080631
19	.0934185	.1418102	.2027736	.2749737	.3557576	.4415131	.5281917	.6118706
20	.0558223	.0899128	.1358515	.1938899	.2629960	.3408928	.4243338	.5095496
21	.0315659	.0540277	.0864035	.1300364	.1853228	.2514954	.3266129	.4077671
22	.0168980	.0307711	.0521591	.0829064	.1243641	.1770522	.2404348	.3128721
23	.0085680	.0166161	.0298868	.0502348	.0794342	.1188338	.1690607	.2297822
24	.0041171	.0085103	.0162580	.0289305	.0482776	.0759975	.1134444	.1613329
25	.0018761	.0041362	.0083990	.0158360	.0279173	.0462959	.0726050	.1061947
26	.0008112	.0019086	.0041221	.0082418	.0153609	.0268603	.0443038	.0692639
27	.0003330	.0008365	.0019228	.0040786	.0080435	.0148425	.0257709	.0433118
28	.0001299	.0003485	.0008528	.0019203	.0040092	.0078121	.0142893	.0246590
29	.0000481	.0001380	.0003598	.0008604	.0019026	.0039171	.0075526	.0137089
30	.0000170	.0000530	.0001444	.0003670	.0008599	.0018714	.0038056	.0072700
31	.0000057	.0000187	.0000552	.0001491	.0003702	.0008521	.0018283	.0036778
32	.0000018	.0000064	.0000201	.0000577	.0001519	.0003698	.0008176	.0017750
33	.0000006	.0000021	.0000070	.0000213	.0000594	.0001530	.0003660	.0008173

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 82

x/p	.17	.18	.19	.20	.21	.22	.23	.24
34	.0000002	.0000006	.0000023	.0000075	.0002221	.0000604	.0001588	.0003991
35		.0000002	.0000007	.0000025	.0000079	.0000227	.0000604	.0001606
36		.0000001	.0000002	.0000008	.0000027	.0000082	.0000230	.0000628
37			.0000001	.0000002	.0000009	.0000028	.0000083	.0000239
38				.0000001	.0000003	.0000009	.0000029	.0000084
39					.0000001	.0000003	.0000009	.0000029
40						.0000001	.0000003	.0000010
41							.0000001	.0000003
42								.0000001

x/p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999922	.9999966	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000
7	.9999648	.9999842	.9999930	.9999970	.9999987	.9999995	.9999998	.9999999
8	.9998660	.9999366	.9999707	.9999868	.9999942	.9999975	.9999989	.9999994
9	.9995569	.9997800	.9998933	.9999495	.9999766	.9999894	.9999953	.9999980
10	.9987099	.9993275	.9996579	.9998302	.9999177	.9999610	.9999820	.9999919
11	.9966489	.9981669	.9990224	.9994915	.9997419	.9998722	.9999388	.9999709
12	.9921522	.9954978	.9974837	.9986394	.9992721	.9996830	.9998096	.9999061
13	.9838836	.9899492	.9941167	.9966458	.9981367	.9989912	.9994675	.9997860
14	.9673657	.9794518	.9874110	.9924921	.9956396	.9975331	.9986401	.9992694
15	.9412146	.9612738	.9751871	.9845308	.9906127	.9944533	.9968079	.9983105
16	.9016979	.9323202	.9546913	.9704954	.9813047	.9884697	.9930764	.9959314
17	.8465389	.8997211	.9229473	.9476991	.9653844	.9777312	.9860560	.9914998
18	.7751567	.8316131	.8773648	.9131305	.9401387	.9598637	.9730109	.9833647
19	.6892337	.7578873	.8164841	.8646694	.9039084	.9322118	.9539443	.9698487
20	.5927587	.6706330	.7406357	.8011803	.8516714	.8923932	.9230794	.9476375
21	.4914599	.5740637	.6522670	.7234238	.7857565	.8384021	.8813310	.9151619
22	.3917691	.4738901	.5557705	.6341388	.7062697	.7702156	.8248934	.8700417
23	.2996306	.3763009	.4568106	.5378642	.6162491	.6891875	.7548888	.8111688
24	.2195101	.2868536	.3613280	.4401943	.5203300	.5985972	.6781888	.7388939
25	.1538559	.2095945	.2745109	.3468201	.4240168	.5031539	.5011613	.6588088
26	.1030833	.1466180	.2000146	.2625758	.3327500	.4082859	.4863884	.5639984
27	.0659002	.0981090	.1396991	.1907522	.2510251	.3190935	.3880918	.4689850
28	.0403287	.0627591	.0932706	.1328204	.1817513	.2390380	.3058898	.3779946
29	.0235331	.0383622	.0596049	.0885669	.1262440	.1731179	.2389268	.2939200
30	.0131082	.0224000	.0364190	.0565213	.0839968	.1190732	.1647197	.2184044
31	.0069691	.0124932	.0212687	.0345047	.0535114	.0795594	.1137013	.1565858
32	.0035365	.0066540	.0118693	.0201427	.0326245	.0505781	.0752837	.1077845
33	.0017129	.0033843	.0063286	.0112412	.0190278	.0307888	.0477358	.0710788
34	.0007919	.0016436	.0032236	.0059962	.0106133	.0177267	.0288838	.0449499
35	.0003495	.0007632	.0015685	.0030567	.0056601	.0099694	.0168491	.0272898
36	.0001472	.0003375	.0007290	.0014889	.0028855	.0053830	.0093787	.0157986
37	.0000592	.0001427	.0003236	.0006929	.0014060	.0027181	.0049874	.0087663
38	.0000227	.0000576	.0001372	.0003080	.0006546	.0013009	.0025379	.0046555
39	.0000083	.0000222	.0000555	.0001308	.0002912	.0006149	.0012347	.0023646
40	.0000029	.0000082	.0000215	.0000531	.0001238	.0002735	.0005748	.0011483
41	.0000010	.0000029	.0000079	.0000205	.0000502	.0001162	.0002551	.0005331
42	.0000003	.0000010	.0000028	.0000076	.0000195	.0000472	.0001003	.0002364
43	.0000001	.0000003	.0000009	.0000027	.0000072	.0000183	.0000439	.0001008
44		.0000001	.0000003	.0000009	.0000025	.0000068	.0000170	.0000405
45			.0000001	.0000003	.0000009	.0000024	.0000063	.0000167
46				.0000001	.0000003	.0000008	.0000022	.0000058
47					.0000001	.0000003	.0000007	.0000020
48						.0000001	.0000002	.0000007
49							.0000001	.0000002
50								.0000001

x/p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999991	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999964	.9999985	.9999953	.9999997	.9999999	1.0000000	1.0000000	1.0000000
11	.9999866	.9999940	.9999974	.9999989	.9999995	.9999998	.9999999	1.0000000
12	.9999549	.9999788	.9999903	.9999957	.9999981	.9999992	.9999997	.9999999
13	.9998625	.9999327	.9999679	.9999850	.9999932	.9999970	.9999987	.9999995
14	.9996174	.9998047	.9999028	.9999528	.9999777	.9999897	.9999954	.9999980
15	.9990225	.9994797	.9997301	.9998636	.9999328	.9999678	.9999849	.9999931
16	.9976942	.9987208	.9993086	.9996360	.9998133	.9999067	.9999546	.9999785
17	.9949546	.9970836	.9983582	.9992999	.9995194	.9997501	.9998738	.9999376
18	.9897150	.9938093	.9963714	.9979291	.9988492	.9993773	.9996780	.9998318
19	.9803982	.9877181	.9925082	.9955510	.9974279	.9985524	.9992069	.9996171
20	.9649395	.9771484	.9855013	.9910451	.9946161	.9968492	.9982053	.9990058
21	.9409554	.9599966	.9736164	.9830612	.9894143	.9935609	.9961881	.9978041
22	.9060789	.9339102	.9547323	.9698023	.9803947	.9876108	.9923805	.9954400
23	.8584489	.8966489	.9265138	.9491229	.9657069	.9774991	.9856306	.9910700
24	.7972502	.8465745	.8868895	.9187780	.9432039	.9613317	.9743737	.9834700
25	.7231495	.7831596	.8344381	.8768168	.9107144	.9369719	.9566786	.9710145
26	.6384756	.7073691	.7609142	.8220575	.8664462	.9023338	.9304332	.9517500
27	.5470453	.6217736	.6915649	.7545297	.8094489	.8557916	.8936466	.9233941
28	.4536430	.5303180	.6051006	.6757473	.7400201	.7966268	.8448659	.8846686
29	.3632794	.4377736	.5138126	.5886998	.6599250	.7253974	.7836943	.8336808
30	.2804027	.3490007	.4222022	.4975350	.5723334	.6441055	.7106723	.7703930

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 02

N	.33	.34	.35	.36	.37	.38	.39	.40
31	.2082876	.2682083	.3350549	.4069801	.4814513	.5560829	.6282949	.6958542
32	.1487068	.1983936	.2563412	.3214300	.3919187	.4655873	.5399495	.6184989
33	.1019369	.1410741	.1907918	.2447894	.3081151	.3771899	.4499898	.5239336
34	.0670340	.0963344	.1336805	.1794708	.2335484	.2951004	.3627268	.4344748
35	.0422588	.0631186	.0909136	.1265194	.1704236	.2225906	.2823775	.3485228
36	.0255236	.0396518	.0593319	.0856712	.1195852	.1616423	.2119261	.2699387
37	.0147623	.0238690	.0371302	.0556734	.0806045	.1128728	.1531203	.2015414
38	.0081787	.0137608	.0226876	.0346951	.0521485	.0757189	.1063779	.1448517
39	.0043298	.0075943	.0127904	.0207211	.0323474	.0487387	.0709884	.1000968
40	.0021934	.0040103	.0070330	.0118530	.0192313	.0300878	.0454615	.0664349
41	.0010626	.0020256	.0037004	.0064906	.0109504	.0177994	.0279170	.0423105
42	.0004920	.0009782	.0018681	.0034006	.0059684	.0100840	.0164265	.0258354
43	.0002177	.0004515	.0008959	.0017039	.0031122	.0054678	.0092550	.0151134
44	.0000920	.0001991	.0004119	.0008161	.0015517	.0028360	.0049898	.0084648
45	.0000371	.0000838	.0001809	.0003735	.0007394	.0014062	.0025726	.0045351
46	.0000143	.0000337	.0000758	.0001632	.0003366	.0006662	.0012678	.0023231
47	.0000053	.0000129	.0000303	.0000681	.0001462	.0003014	.0005968	.0011370
48	.0000018	.0000047	.0000116	.0000271	.0000606	.0001301	.0002681	.0005314
49	.0000006	.0000016	.0000042	.0000103	.0000240	.0000536	.0001149	.0002362
50	.0000002	.0000005	.0000015	.0000037	.0000090	.0000210	.0000470	.0001007
51	.0000001	.0000002	.0000005	.0000013	.0000032	.0000079	.0000183	.0000406
52			.0000002	.0000004	.0000011	.0000028	.0000068	.0000157
53					.0000004	.0000009	.0000024	.0000058
54					.0000001	.0000003	.0000008	.0000020
55						.0000001	.0000003	.0000007
56							.0000001	.0000002
57								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999991	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999970	.9999987	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
16	.9999901	.9999955	.9999981	.9999992	.9999997	.9999999	.9999999	1.0000000
17	.9999701	.9999860	.9999937	.9999972	.9999988	.9999995	.9999998	.9999999
18	.9999161	.9999593	.9999808	.9999912	.9999961	.9999983	.9999993	.9999997
19	.9997806	.9998892	.9999456	.9999740	.9999860	.9999946	.9999976	.9999990
20	.9994634	.9997185	.9998564	.9999387	.9999656	.9999839	.9999927	.9999968
21	.9987692	.9993290	.9996442	.9998166	.9999081	.9999583	.9999799	.9999903
22	.9973449	.9984962	.9991717	.9995563	.9997692	.9998833	.9999427	.9999727
23	.9946004	.9968242	.9981035	.9989098	.9994541	.9997134	.9998539	.9999277
24	.9896251	.9936656	.9962385	.9978284	.9987814	.9993556	.9996482	.9998192
25	.9811261	.9880427	.9926316	.9955849	.9974284	.9985446	.9992000	.9995731
26	.9674236	.9785963	.9863189	.9914954	.9948603	.9969814	.9982779	.9990461
27	.9465484	.9635999	.9758787	.9844511	.9902537	.9940620	.9964851	.9979795
28	.9164608	.9410765	.9595433	.9729715	.9824366	.9889040	.9931876	.9959374
29	.8753908	.9090390	.9353371	.9552542	.9698733	.9802732	.9874437	.9923349
30	.8223471	.8658397	.9013242	.9293329	.9507330	.9665830	.9779591	.9858708
31	.7570034	.8105744	.8560169	.8933517	.9230665	.9459801	.9630997	.9754924
32	.6809512	.7434446	.7986714	.8459295	.8850962	.9165403	.9409961	.9594827
33	.5967217	.6659704	.7297447	.7865458	.8355837	.8765718	.9097566	.9357816
34	.5080364	.5809674	.6509180	.7158510	.7742045	.8249850	.8677823	.9027178
35	.4192184	.4922573	.5652392	.6357995	.7018296	.7616534	.8141388	.8567311
36	.3345725	.4041591	.4765969	.5495399	.6206194	.6876661	.7488977	.8030475
37	.2577774	.3200708	.3892939	.4610554	.5338721	.6053819	.6733651	.7359417
38	.1914305	.2458881	.3074136	.3746207	.4456338	.5182380	.5900904	.6589305
39	.1368318	.1815860	.2343657	.2941974	.3601379	.4303297	.5026397	.5747482
40	.0940261	.1290564	.1720094	.2229065	.2812194	.3458443	.4151466	.4870790
41	.0620489	.0881632	.1215217	.1626911	.2118071	.2684775	.3317393	.4000848
42	.0392853	.0578287	.0825056	.1142250	.1536299	.2009650	.2559703	.3170227
43	.0238432	.0363853	.0537731	.0770512	.1071638	.1448237	.1903787	.2436970
44	.0138609	.0219407	.0336100	.0498810	.0717985	.1003362	.1368707	.1800470
45	.0077124	.0126694	.0201277	.0309589	.0461513	.0667459	.0937407	.1279697
46	.0041043	.0070001	.0115390	.0184043	.0284314	.0425829	.0618922	.0873761
47	.0020876	.0036979	.0063275	.0104692	.0167699	.0260269	.0391780	.0573364
48	.0010141	.0018663	.0033161	.0056948	.0094618	.0152243	.0237445	.0359265
49	.0004702	.0008992	.0016596	.0029550	.0051018	.0085144	.0137668	.0218333
50	.0002079	.0004133	.0007926	.0014675	.0026265	.0045483	.0076272	.0123965
51	.0000876	.0001811	.0003608	.0006941	.0013899	.0023165	.0040339	.0067995
52	.0000351	.0000755	.0001565	.0003128	.0006037	.0011366	.0020345	.0035579
53	.0000134	.0000300	.0000646	.0001342	.0002690	.0005214	.0009774	.0017740
54	.0000049	.0000113	.0000253	.0000547	.0001140	.0002295	.0004469	.0008420
55	.0000017	.0000041	.0000094	.0000212	.0000459	.0000960	.0001942	.0003799
56	.0000005	.0000014	.0000033	.0000078	.0000175	.0000381	.0000801	.0001688
57	.0000002	.0000004	.0000011	.0000027	.0000064	.0000144	.0000313	.0000661
58		.0000001	.0000004	.0000009	.0000022	.0000051	.0000116	.0000254
59			.0000001	.0000003	.0000007	.0000017	.0000041	.0000093
60				.0000001	.0000002	.0000005	.0000013	.0000038
61					.0000001	.0000002	.0000004	.0000010
62							.0000001	.0000003
63								.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 82

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	.9999999	1.0000000
19	.9999996	.9999998
20	.9999986	.9999994
21	.9999957	.9999981
22	.9999874	.9999944
23	.9999653	.9999838
24	.9999099	.9999564
25	.9997790	.9998890
26	.9994872	.9997326
27	.9988726	.9993878
28	.9976480	.9986788
29	.9953367	.9972020
30	.9913018	.9946813
31	.9841838	.9900865
32	.9738718	.9823793
33	.9555512	.9700958
34	.9303369	.9514845
35	.8954238	.9246624
36	.8494207	.8878777
37	.7917163	.8398533
38	.7237891	.7801473
39	.6443657	.7094426
40	.5593578	.6296716
41	.4715579	.5439217
42	.3851437	.4560783
43	.3040950	.3703264
44	.2316576	.2905572
45	.1699696	.2198537
46	.1199203	.1601467
47	.0812419	.1121223
48	.0527778	.0753376
49	.0328366	.0485155
50	.0195425	.0299042
51	.0111124	.0176207
52	.0060304	.0099135
53	.0031196	.0053187
54	.0015365	.0027160
55	.0007197	.0013212
56	.0003202	.0006103
57	.0001351	.0002674
58	.0000540	.0001110
59	.0000204	.0000436
60	.0000073	.0000162
61	.0000025	.0000056
62	.0000008	.0000019
63	.0000002	.0000006
64	.0000001	.0000002

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 83

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.5657687	.8130333	.9201906	.9662315	.9858401	.9941168	.9975785	.9990188
2	.2017161	.4963346	.7153191	.8494486	.9339039	.9629485	.9824506	.9918881
3	.0509469	.2313418	.4555336	.6499445	.7905045	.8813804	.9357657	.9664868
4	.0098280	.0853853	.2385993	.4255034	.6008234	.7400055	.8408898	.9068409
5	.0015212	.0257268	.1044131	.2384673	.4011590	.5613482	.6980659	.8031310
6	.0001955	.0065093	.0388418	.1153359	.2351224	.3803636	.5282130	.6606315
7	.0000214	.0014108	.0124780	.0486397	.1315185	.2301849	.3620129	.4995451
8	.0000020	.0002662	.0035089	.0180706	.0657476	.1247402	.2244063	.3454625
9	.0000002	.0000443	.0008736	.0059703	.0296622	.0606004	.1260102	.2181769
10		.0000066	.0001944	.0017688	.0114388	.0267898	.0642928	.1259409
11		.0000009	.0000390	.0004734	.0028212	.0107253	.0299160	.0663891
12		.0000001	.0000071	.0001152	.0008501	.0039204	.0127446	.0323366
13			.0000012	.0000256	.0002395	.0013142	.0049898	.0144688
14			.0000002	.0000052	.0000614	.0004057	.0018080	.0059821
15				.0000010	.0000145	.0001158	.0006028	.0022923
16				.0000002	.0000032	.0000306	.0001868	.0008164
17					.0000007	.0000075	.0000540	.0002709
18					.0000001	.0000017	.0000145	.0000840
19							.0000037	.0000244
20						.0000001	.0000009	.0000066
21							.0000002	.0000017
22								.0000004
23								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9996015	.9998407	.9999370	.9999753	.9999904	.9999963	.9999986	.9999995
2	.9963302	.9987719	.9994907	.9996962	.9998720	.9999469	.9999783	.9999913
3	.9830655	.9936807	.9980155	.9993355	.9997462	.9999169	.9999314	.9999272
4	.9476442	.9776071	.9930689	.9983892	.9996180	.9998665	.9999316	.9999596
5	.8775800	.9469989	.9848689	.9967177	.9994672	.9998443	.9999615	.9999428
6	.7680952	.8886869	.9053099	.9429526	.9668071	.9812983	.9897742	.9945639
7	.6273290	.7355695	.8205397	.8830964	.9266744	.9555941	.9739741	.9852081
8	.4741877	.5973149	.7053905	.7933121	.8607091	.9095655	.9433032	.9656054
9	.3303023	.4513795	.5699697	.6770005	.7670687	.8383818	.8918844	.9301340
10	.2117153	.3162541	.4305944	.5448283	.6504667	.7418148	.8162685	.8738301
11	.1249253	.2051511	.3031208	.4114545	.5215344	.6354852	.7175231	.7944685
12	.0679613	.1232266	.1985636	.2907568	.3936708	.4998099	.6018800	.6941409
13	.0341584	.0686102	.1210272	.1920041	.2790516	.3770573	.4794344	.5795031
14	.0158927	.0354670	.0686883	.1194575	.1855045	.2679194	.3614212	.4682306
15	.0068707	.0170541	.0363440	.0693121	.1156139	.1790863	.2572920	.3666407
16	.0027630	.0076430	.0179550	.0398572	.0675725	.1125647	.1727635	.2771143
17	.0010364	.0031989	.0082956	.0218277	.0370641	.0665411	.1093671	.1665453
18	.0003634	.0013528	.0035904	.0088306	.0190973	.0370139	.0652749	.1060621
19	.0001194	.0004600	.0014581	.0033320	.0092535	.0193876	.0367446	.0638199
20	.0000368	.0001586	.0005565	.0016468	.0042214	.0095718	.0195204	.0368936
21	.0000107	.0000514	.0001999	.0006496	.0018152	.0044584	.0097938	.0198157
22	.0000029	.0000157	.0000677	.0002417	.0007366	.0019610	.0046444	.0099284
23	.0000007	.0000045	.0000216	.0000849	.0002824	.0008155	.0020835	.0047819
24	.0000002	.0000012	.0000065	.0000282	.0001024	.0003309	.0008849	.0021820
25		.0000003	.0000019	.0000089	.0000351	.0001196	.0003562	.0009440
26		.0000001	.0000005	.0000026	.0000114	.0000422	.0001359	.0003875
27			.0000001	.0000007	.0000035	.0000142	.0000492	.0001510
28				.0000002	.0000010	.0000045	.0000169	.0000559
29				.0000001	.0000003	.0000014	.0000055	.0000197
30					.0000001	.0000004	.0000017	.0000066
31						.0000001	.0000005	.0000021
32							.0000001	.0000006
33								.0000002
34								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999965	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
3	.9999691	.9999871	.9999947	.9999979	.9999992	.9999997	.9999999	1.0000000
4	.9998175	.9999189	.9999649	.9999849	.9999937	.9999974	.9999989	.9999996
5	.9991963	.9996192	.9998235	.9999200	.9999644	.9999845	.9999934	.9999972
6	.9971861	.9985799	.9993005	.9996615	.9998417	.9999272	.9999672	.9999856
7	.9918335	.9956140	.9977057	.9988298	.9994176	.9997170	.9998656	.9999376
8	.9797741	.9884524	.9935905	.9965374	.9981776	.9990647	.9995317	.9997711
9	.9563090	.9735179	.9844203	.9910929	.9950460	.9973171	.9985841	.9992714
10	.9168583	.9461986	.9664951	.9797501	.9881091	.9932093	.9962255	.9979565
11	.8555550	.9018215	.9353804	.9587859	.9744634	.9846360	.9910121	.9960037
12	.7710436	.8371745	.8869449	.9239512	.9503912	.9685083	.9806775	.9884442
13	.6716440	.7520298	.8187764	.8717293	.9119976	.9414305	.9621559	.9762429
14	.5502156	.6499519	.7314456	.8004262	.8548886	.9038858	.9319408	.9551995
15	.4230540	.5379152	.6290305	.7112973	.7821729	.8405982	.8868130	.9219730
16	.3026108	.4247855	.5185027	.6087991	.6915032	.7640526	.8248069	.8737071
17	.1973413	.3192438	.4083259	.4998948	.5893398	.6722960	.7460915	.8089298
18	.1184375	.2279358	.3064704	.3925920	.4820192	.5702981	.6534249	.7283079
19	.0676825	.1544440	.2188663	.2942311	.3775131	.4648131	.5519329	.6449568
20	.0368137	.0998543	.1485667	.2101066	.2824759	.3630298	.4482211	.5541066
21	.0356895	.0604870	.0957986	.1428071	.2016348	.2711628	.3490887	.4721949
22	.0193916	.0349573	.0586655	.0923324	.1371654	.1934297	.2602550	.3756469
23	.0099843	.0191640	.0341185	.0567707	.0888605	.1316419	.1854767	.2897238
24	.0048738	.0099694	.0189475	.0331917			.1262362	.1777608
25	.0022571	.0049335	.0098922	.0184549	.0321930	.0520309	.0819981	.1209478
26	.0009922	.0023095	.0049347	.0097601	.0179978	.0311362	.0508131	.0786073
27	.0004143	.0010295	.0023407	.0049112	.0095802	.0174864	.0300335	.0487803
28	.0001644	.0004363	.0010561	.0023520	.0048564	.0093588	.0169301	.0288956
29	.0000620	.0001759	.0004535	.0010724	.0023450	.0047740	.0091020	.0163369
30	.0000223	.0000675	.0001854	.0004657	.0010789	.0023215	.0046674	.0088154
31	.0000076	.0000247	.0000722	.0001926	.0004731	.0010763	.0022831	.0045400

$$P(c,n;p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 45$$

x	.17	.18	.19	.20	.21	.22	.23	.24
33	.00000025	.00000046	.0000026M	.00007601	.0001978	.0004759	.0010655	.0022317
33	.00000008	.00000028	.00000095	.00002885	.0000788	.0002007	.0004745	.0010472
34	.00000002	.00000009	.00000032	.00001021	.0000300	.0000800	.0002016	.0004691
35	.00000001	.00000003	.00000010	.00000351	.00001091	.0000310	.0000818	.0002006
36		.00000001	.00000003	.00000111	.00000381	.0000114	.0000317	.0000819
37			.00000001	.00000041	.00000121	.0000040	.0000117	.0000319
38				.00000011	.00000041	.0000013	.0000041	.0000119
39					.00000011	.0000004	.0000014	.0000042
40						.0000001	.0000004	.0000014
41							.0000001	.0000005
42								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	.99999989	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
6	.99999938	.99999974	.99999989	.99999996	.99999998	.99999999	1.00000000	1.00000000
7	.99999717	.99999874	.99999945	.99999977	.99999990	.99999996	.99999998	.99999999
8	.99998907	.99999490	.99999767	.99999896	.99999955	.99999981	.99999992	.99999997
9	.99996342	.99998207	.99999142	.99999599	.99999817	.99999918	.99999964	.99999985
10	.99989217	.99994451	.99997215	.99998636	.99999348	.99999695	.99999861	.99999938
11	.99971642	.99986486	.99991940	.99995863	.99997829	.99999088	.99999518	.99999776
12	.99932764	.99961917	.99979092	.99988708	.99994004	.99996978	.99998494	.99999260
13	.99855008	.99913918	.99950258	.99978012	.99989660	.99991807	.99995736	.99997836
14	.99713452	.99818111	.99892215	.99936551	.99963638	.99979705	.99988566	.99994155
15	.99477585	.99660001	.99784876	.99867600	.99930705	.99953778	.99973759	.99985493
16	.99115772	.99384881	.99602252	.99744353	.99840040	.99902648	.99942330	.99966743
17	.98603207	.99007969	.99315181	.99540388	.99700013	.99809527	.99882383	.99929243
18	.97930023	.98467212	.98896721	.99227929	.99474600	.99652240	.99776068	.99859693
19	.97107144	.97705600	.98329219	.98782385	.99137009	.99405074	.99601029	.99739684
20	.96168774	.96931191	.97611148	.98196630	.98652884	.99042688	.99331995	.99546481
21	.95167846	.95991717	.96761266	.97451979	.98048718	.98545701	.98985210	.99255541
22	.94166918	.94999352	.95810346	.96711386	.97393209	.97906710	.98483891	.98844001
23	.93226653	.94016741	.94835098	.95648211	.96433551	.97134959	.97763028	.98300077
24	.92395402	.93101099	.93871083	.94675419	.95461465	.96257743	.96977386	.97680217
25	.91702694	.92296819	.92979515	.93729649	.94519476	.95317869	.96093936	.96820381
26	.91157764	.91629919	.92201386	.92861642	.93692174	.94367853	.95157887	.95932093
27	.90752560	.91107213	.91591186	.92108628	.92972553	.93533422	.94318549	.94999598
28	.90467416	.90719501	.91057020	.91490413	.92361147	.92636147	.93588184	.94071185
29	.90277320	.90447054	.90669946	.91009579	.91853527	.91931339	.92928146	.93201873
30	.90157144	.90265507	.90426792	.90654940	.91460485	.91358466	.92446455	.92423096
31	.90085039	.90150692	.90253593	.90406694	.91163522	.90916536	.92095174	.92063934
32	.90043946	.90081722	.90144071	.90241641	.90961817	.90592725	.91871726	.91833608
33	.90021688	.90043344	.90078246	.90137336	.90829709	.90367213	.91652579	.91688055
34	.90010283	.90020962	.90040619	.90074648	.90750535	.90217849	.91547927	.91533111
35	.90004601	.90009914	.90020154	.90038797	.90709966	.90123712	.91486107	.91328998
36	.90001978	.90004479	.90009557	.90019379	.90696902	.90067329	.91469904	.91194523
37	.90000812	.90001934	.90004330	.90009158	.90698350	.90034954	.91463468	.91101147
38	.90000318	.90000797	.90001875	.90004158	.90694785	.90017383	.91332973	.91059709
39	.90000119	.90000314	.90000776	.90001804	.90693966	.90006267	.91016387	.91030977
40	.90000043	.90000118	.90000307	.90000748	.90693759	.90003759	.91007789	.91015375
41	.90000015	.90000042	.90000116	.90000297	.90690716	.90001634	.91003540	.91007099
42	.90000005	.90000015	.90000042	.90000113	.90690284	.90000670	.91001538	.91003314
43	.90000001	.90000005	.90000014	.90000041	.90690108	.90000269	.91000639	.91001438
44		.90000001	.90000005	.90000014	.90690039	.90000103	.91000253	.91000596
45			.90000001	.90000005	.90690013	.90000037	.91000096	.91000236
46				.90000001	.90690004	.90000013	.91000035	.91000089
47					.90690001	.90000004	.91000012	.91000032
48						.90000001	.91000004	.91000011
49							.91000001	.91000004
50								.91000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	.99999999	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	.99999994	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	.99999973	.99999989	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000
11	.99998898	.99999955	.99999981	.99999992	.99999997	.99999999	.99999999	1.00000000
12	.99996653	.99998840	.99999928	.99999968	.99999986	.99999994	.99999998	.99999999
13	.99988930	.99994484	.99997757	.99999889	.99999950	.99999978	.99999991	.99999996
14	.99969883	.99984482	.99992256	.99996644	.99998934	.99999925	.99999967	.99999986
15	.99931888	.99959202	.99977906	.99989957	.99994494	.99997761	.99999890	.99999951
16	.99861385	.99907888	.99945622	.99971179	.99985575	.99992899	.99996664	.99998844
17	.99758586	.99816402	.99886909	.99929529	.99962281	.99968096	.99990051	.99995540
18	.99614446	.99692285	.99780668	.99853506	.99909972	.99955190	.99973506	.99987741
19	.99434730	.99537891	.99638604	.99744071	.99844538	.99918658	.99933885	.99964790
20	.99700408	.99407421	.99479537	.99626672	.99756564	.99874964	.99885959	.99918339
21	.94887702	.96582282	.97777761	.98593354	.99133389	.99408105	.99669748	.99828845
22	.94175881	.94277796	.96133354	.97457555	.98377319	.98988719	.99388654	.99638886
23	.93741668	.93093177	.95363868	.96565675	.97511414	.98813415	.98882630	.99288180
24	.93174458	.92635998	.94007580	.95297023	.96515300	.96674753	.97887633	.98651100
25	.92760327	.92047206	.93527961	.94919229	.95227355	.94623286	.96357893	.97599867
26	.66641880	.73313794	.79184754	.84177094	.88282354	.91534963	.94066894	.95948584
27	.57721734	.65087614	.71863724	.77883974	.83053794	.87347764	.90799344	.93489644
28	.48446634	.56141294	.63541514	.70410904	.76570874	.81910944	.86389034	.90083524

$$B(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 63$$

r	.33	.34	.35	.36	.37	.38	.39	.40
29	.3930996	.4693387	.5457914	.6200369	.6895603	.7524646	.8074763	.8540735
30	.3077580	.3791835	.4548659	.5303480	.6047423	.6749964	.7391150	.7957081
31	.2320054	.2956777	.3655565	.4395379	.5150776	.5895315	.6604221	.7256697
32	.1683688	.2221306	.2838910	.3520064	.4250457	.4992756	.5744042	.6458410
33	.1173710	.1605628	.2124337	.2723800	.3391284	.4107809	.4850373	.5593590
34	.0785500	.1115459	.1529693	.2029855	.2611343	.3263244	.3967350	.4709501
35	.0504346	.0744120	.1050820	.1458619	.1937776	.2501444	.3137137	.3839034
36	.0310462	.0476305	.0703855	.1003766	.1393954	.1848007	.2394021	.3013723
37	.0183135	.0292352	.0449008	.0664726	.0 .0274	.1314058	.1760545	.2289003
38	.0103475	.0171076	.0274695	.0422473	.0532734	.0898384	.1246074	.1675976
39	.0055976	.0096709	.0161074	.0257518	.0197716	.0590881	.0847003	.1179987
40	.0028982	.0052289	.0090481	.0150455	.0243842	.0371758	.0554170	.0790996
41	.0014336	.0027094	.0048660	.0084310	.0140143	.0224690	.0347594	.0519603
42	.0006803	.0013343	.0025055	.0045130	.0070118	.0130159	.0209078	.0324854
43	.0003082	.0006306	.0012341	.0023147	.0041690	.0072830	.0120519	.0194208
44	.0001335	.0002849	.0005813	.0011357	.0021261	.0038361	.0066530	.0111039
45	.0000552	.0001230	.0002617	.0005328	.0010400	.0019495	.0035154	.0061067
46	.0000218	.0000507	.0001126	.0002389	.0004856	.0009474	.0017767	.0032079
47	.0000082	.0000200	.0000463	.0001023	.0002167	.0004400	.0008585	.0016115
48	.0000030	.0000075	.0000181	.0000418	.0000883	.0001958	.0003963	.0007736
49	.0000010	.0000027	.0000068	.0000163	.0000375	.0000827	.0001747	.0003547
50	.0000003	.0000009	.0000024	.0000061	.0000146	.0000334	.0000735	.0001558
51	.0000001	.0000003	.0000008	.0000022	.0000054	.0000189	.0000305	.0000648
52		.0000001	.0000003	.0000007	.0000019	.0000047	.0000113	.0000258
53			.0000001	.0000002	.0000006	.0000016	.0000041	.0000098
54				.0000001	.0000002	.0000005	.0000014	.0000035
55					.0000001	.0000008	.0000005	.0000010
56						.0000001	.0000001	.0000004
57								.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999979	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
16	.9999889	.9999969	.9999987	.9999994	.9999998	.9999999	1.0000000	1.0000000
17	.9999583	.9999900	.9999955	.9999981	.9999993	.9999997	.9999999	.9999999
18	.9998380	.9999705	.9999863	.9999938	.9999973	.9999988	.9999995	.9999998
19	.9993361	.9999184	.9999607	.9999816	.9999916	.9999961	.9999984	.9999993
20	.9985935	.9997902	.9998947	.9999487	.9999757	.9999888	.9999950	.9999978
21	.9970538	.9994926	.9997384	.9998659	.9999340	.9999685	.9999854	.9999934
22	.9939888	.9988460	.9993747	.9996710	.9998317	.9999164	.9999597	.9999818
23	.9887857	.9975264	.9986084	.9992392	.9995959	.9997915	.9998956	.9999493
24	.9816651	.9949922	.9970749	.9983394	.9990841	.9995094	.9997449	.9998713
25	.9846108	.9904845	.9941826	.9965720	.9980373	.9989885	.9994107	.9996918
26	.9730416	.9835638	.9890334	.9932948	.9960159	.9977005	.9987113	.9992990
27	.9551072	.9698984	.9803680	.9875506	.9923267	.9954049	.9973277	.9984914
28	.9287967	.9455363	.9666475	.9780225	.9859543	.9912767	.9947374	.9969176
29	.8928895	.9084947	.9457458	.9630498	.9755268	.9841434	.9901434	.9940121
30	.8460360	.8579834	.9159555	.9407383	.9593461	.9728805	.9834169	.9889255
31	.7837533	.8337858	.8755034	.9091835	.9355164	.9554574	.9700836	.9804740
32	.7181386	.7716391	.8233300	.8667953	.9021828	.9300886	.9513842	.9671361
33	.6318558	.6985095	.7593718	.8126746	.8578643	.8949573	.9244392	.9471205
34	.5443974	.6166686	.6848049	.7469567	.8018251	.8487149	.8875100	.9185001
35	.4556338	.5295156	.6020811	.6710821	.7343983	.7907859	.8393510	.8798444
36	.3698773	.4411604	.5147131	.5874941	.6571640	.7217003	.7795600	.8297756
37	.2898634	.3558519	.4268342	.4999886	.5739064	.6432326	.7088654	.7681625
38	.2186387	.2773008	.3426221	.4136519	.4853405	.5583242	.6392895	.6958959
39	.1598173	.2088940	.2657193	.3295836	.3986106	.4707675	.5437415	.6151557
40	.1118765	.1511196	.1987796	.2542745	.3167387	.3847076	.4582683	.5291602
41	.0751595	.1053383	.1432314	.1891858	.2430426	.3040662	.3706407	.4418417
42	.0486103	.0705698	.0992885	.1355501	.1794096	.2320200	.2915817	.3573068
43	.0301745	.0459915	.0661381	.0934077	.1280736	.1706487	.2219067	.2793773
44	.0179337	.0288074	.0428801	.0618359	.0877139	.1208005	.1617014	.2105990
45	.0100393	.0174633	.0269281	.0393847	.0574985	.0821974	.1137298	.1529660
46	.0053856	.0099818	.0158323	.0239883	.0364054	.0536979	.0768610	.1086611
47	.0089144	.0050848	.0089604	.0139610	.0220176	.0336427	.0498501	.0717035
48	.0014848	.0024386	.0046110	.0077950	.0127504	.0201935	.0309968	.0461553
49	.0006938	.0011034	.0023719	.0041627	.0070618	.0116010	.0184563	.0288681
50	.0003154	.0004974	.0011654	.0021238	.0037404	.0063727	.0105128	.0168061
51	.0001369	.0002286	.0005465	.0010344	.0018914	.0033442	.0057228	.0094861
52	.0000566	.0001199	.0002444	.0004805	.0009135	.0016749	.0029742	.0051139
53	.0000223	.0000491	.0001041	.0002127	.0004196	.0007998	.0014743	.0026303
54	.0000084	.0000192	.0000422	.0000897	.0001838	.0003638	.0006962	.0013295
55	.0000030	.0000071	.0000163	.0000359	.0000766	.0001575	.0003129	.0006617
56	.0000010	.0000025	.0000060	.0000137	.0000303	.0000646	.0001337	.0003270
57	.0000003	.0000008	.0000021	.0000050	.0000114	.0000253	.0000513	.0001235
58	.0000001	.0000003	.0000007	.0000017	.0000041	.0000094	.0000189	.0000450
59		.0000001	.0000002	.0000006	.0000014	.0000033	.0000070	.0000170
60			.0000001	.0000002	.0000004	.0000011	.0000026	.0000061
61					.0000001	.0000003	.0000009	.0000021
62						.0000001	.0000003	.0000007
63							.0000001	.0000002
64								.0000001

$$B(n,p) = \sum_{i=0}^{n} \binom{n}{i} p^i (1-p)^{n-i} \qquad n > 0$$

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	.9999999	1.0000000
19	.9999997	.9999999
20	.9999991	.9999996
21	.9999971	.9999988
22	.9999915	.9999963
23	.9999761	.9999891
24	.9999370	.9999701
25	.9998431	.9999237
26	.9996303	.9998108
27	.9991738	.9995612
28	.9983481	.9990343
29	.9964693	.9979804
30	.9930270	.9959816
31	.9876283	.9923839
32	.9784164	.9862329
33	.9640383	.9762376
34	.9426919	.9607902
35	.9135313	.9380735
36	.8719638	.9062701
37	.8169915	.8638655
38	.7555535	.8100003
39	.6887938	.7447950
40	.6201137	.6695582
41	.5145798	.5867976
42	.4274867	.5000000
43	.3419009	.4132024
44	.2671519	.3304418
45	.2001967	.2552050
46	.1444444	.1899997
47	.1001943	.1361345
48	.0667253	.0937899
49	.0426078	.0619265
50	.0260566	.0392098
51	.0153431	.0237624
52	.0085206	.0137671
53	.0045459	.0076161
54	.0023132	.0040104
55	.0011199	.0020196
56	.0005160	.0009657
57	.0002258	.0004308
58	.0000937	.0001892
59	.0000369	.0000773
60	.0000137	.0000299
61	.0000048	.0000109
62	.0000016	.0000038
63	.0000005	.0000012
64	.0000001	.0000004
65		.0000001

$$I_{x,n}(p,q) = \sum_{j=a}^{n} \binom{n}{j} p^j (1-p)^{n-j}$$

n = 04

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.5701110	.8167726	.9225849	.9675823	.9865481	.9944698	.9977480	.9990918
2	.2053867	.5036686	.7214653	.8541199	.9270767	.9640186	.9835096	.9934581
3	.0584546	.2366416	.4633878	.6579246	.7971705	.8869745	.9390336	.9685180
4	.0103390	.0882457	.2451073	.4344801	.6103075	.7492400	.8475311	.9116000
5	.0016043	.0269168	.1004387	.2459487	.4111483	.5791156	.7080436	.8114884
6	.0002087	.0068937	.0408000	.1202611	.2434242	.3912226	.5401027	.6780315
7	.0000231	.0015188	.0138689	.0513075	.1271985	.2391956	.3736469	.5184320
8	.0000008	.0000891	.0037780	.0192933	.0590361	.1310669	.2340388	.3577891
9	.0000002	.0000488	.0009587	.0064543	.0245065	.0646364	.1388979	.2203597
10		.0000073	.0002148	.0019369	.0091599	.0288305	.0666185	.1333198
11		.0000010	.0000437	.0005852	.0031081	.0116892	.0333823	.0713178
12		.0000001	.0000081	.0001295	.0009578	.0043807	.0139466	.0338787
13			.0000014	.0000898	.0002705	.0014706	.0055327	.0135984
14			.0000002	.0000060	.0000703	.0004608	.0020851	.0046611
15				.0000019	.0000149	.0001338	.0006868	.0015875
16				.0000002	.0000018	.0000357	.0002169	.0005144
17					.0000008	.0000069	.0000633	.0001545
18					.0000001	.0000011	.0000173	.0000489
19						.0000005	.0000044	.0000131
20						.0000001	.0000011	.0000033
21							.0000002	.0000021
22							.0000001	.0000005
23								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9996374	.9998567	.9999439	.9999783	.9999917	.9999969	.9999988	.9999996
2	.9966246	.9985188	.9993618	.9997297	.9998874	.9999538	.9999814	.9999926
3	.9848593	.9943498	.9983757	.9993288	.9998405	.9999631	.9999835	.9999374
4	.9808381	.9936144	.9962881	.9930788	.9965987	.9993696	.9992365	.8996504
5	.8838858	.9314597	.9610407	.9785983	.9886048	.9941054	.9970320	.9985431
6	.7779488	.8565181	.9111133	.9470045	.9694989	.9829988	.9908073	.9951684
7	.6399979	.7466812	.8280645	.9038798	.9318817	.9591927	.9763441	.9867050
8	.4879704	.6111404	.7179679	.8040862	.8592846	.9150095	.9479038	.9687419
9	.3438519	.4659731	.5845550	.6909579	.7798480	.8483475	.8995979	.9350094
10	.2233802	.3297667	.4459387	.5606890	.6656250	.7553348	.8276109	.8688388
11	.1387364	.2162614	.3171489	.4274594	.5388956	.6417713	.7333349	.8071664
12	.0730880	.1314190	.2106651	.3052405	.4103009	.5174044	.6192865	.7102009
13	.0378007	.0740719	.1295562	.2038544	.2939533	.3940426	.4978013	.5970440
14	.0175430	.0387813	.0744155	.1272831	.1976656	.2831987	.3791838	.4793137
15	.0076831	.0188954	.0399019	.0743295	.1246988	.1915229	.2799114	.3648151
16	.0031387	.0085841	.0199778	.0406318	.0738178	.1315777	.1954488	.2830385
17	.0011918	.0036434	.0093581	.0208153	.0410302	.0879844	.1288765	.1994363
18	.0004240	.0014474	.0041080	.0100662	.0214330	.0511469	.0798887	.1357394
19	.0001413	.0005393	.0016926	.0045190	.0105330	.0281531	.0470587	.0905787
20	.0000442	.0001887	.0006557	.0019219	.0048756	.0139460	.0261040	.0496978
21	.0000130	.0000621	.0002391	.0007693	.0021280	.0061743	.0135538	.0303003
22	.0000036	.0000193	.0000820	.0002906	.0008768	.0025169	.0064120	.0176623
23	.0000009	.0000056	.0000267	.0001037	.0003414	.0009759	.0028677	.0096053
24	.0000002	.0000016	.0000082	.0000350	.0001258	.0003901	.0011647	.0050960
25	.0000001	.0000004	.0000024	.0000112	.0000439	.0001478	.0004355	.0024431
26		.0000001	.0000007	.0000034	.0000145	.0000530	.0001690	.0010765
27			.0000002	.0000010	.0000046	.0000181	.0000622	.0004808
28				.0000003	.0000014	.0000059	.0000218	.0000711
29				.0000001	.0000004	.0000018	.0000072	.0000855
30					.0000001	.0000005	.0000023	.0000087
31						.0000001	.0000007	.0000028
32							.0000002	.0000009
33							.0000001	.0000003
34								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999971	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
3	.9999738	.9999892	.9999956	.9999983	.9999993	.9999997	.9999999	1.0000000
4	.9998433	.9999313	.9999704	.9999875	.9999948	.9999978	.9999992	.9999997
5	.9993019	.9996731	.9998503	.9999329	.9999706	.9999874	.9999947	.9999978
6	.9975278	.9987670	.9993999	.9997148	.9998675	.9999338	.9999738	.9999894
7	.9927434	.9961478	.9980087	.9989966	.9995067	.9998630	.9999491	.9999821
8	.9818243	.9897415	.9943724	.9969952	.9984380	.9992082	.9996835	.9999110
9	.9602981	.9760041	.9861627	.9921818	.9957037	.9977016	.9988021	.9995913
10	.9210670	.9511161	.9699009	.9820186	.9895650	.9941131	.9967680	.9983721
11	.8658745	.9098094	.9419930	.9629627	.9779800	.9865333	.9928118	.9956818
12	.7870705	.8488110	.9061476	.9309142	.9554464	.9721188	.9830545	.9899897
13	.6888800	.7673558	.8517284	.8821736	.9200602	.9474053	.9664159	.9791710
14	.5774985	.6683259	.7780384	.8146868	.8679630	.9087995	.9383898	.9602499
15	.4618035	.5580818	.6844813	.7291231	.7977307	.8535777	.8971988	.9299473
16	.3518157	.4514489	.5795011	.6329967	.7106070	.7808927	.8390603	.8852909
17	.2535370	.3582413	.4692595	.5216756	.6107319	.6924835	.7641960	.8244759
18	.1715112	.2443712	.3580330	.4140525	.5045355	.5927376	.6747380	.7476570
19	.1135008	.1676725	.2555111	.3139032	.3994594	.4880198	.5752761	.6573611
20	.0690934	.1091885	.1619337	.2269315	.3024337	.3854217	.4720748	.5585107
21	.0401986	.0674651	.1058046	.1562670	.2186109	.2913734	.3710891	.4566537
22	.0221628	.0395527	.0657208	.1024273	.1507039	.2105310	.2806673	.3588184
23	.0115833	.0220068	.0387825	.0633830	.0990116	.1452352	.2026759	.2703454
24	.0057485	.0116244	.0217490	.0379075	.0619708	.0955900	.1398615	.1980319
25	.0027019	.0058318	.0115937	.0214022	.0369447	.0600063	.0951738	.1345829
26	.0012073	.0027800	.0058767	.0114991	.0209788	.0359089	.0579856	.0867690
27	.0005185	.0012579	.0028136	.0058008	.0113479	.0204494	.0334126	.0559388
28	.0002069	.0005431	.0013002	.0028678	.0058404	.0111469	.0189439	.0353680
29	.0000794	.0002288	.0005680	.0013283	.0028794	.0057837	.0105025	.0219310
30	.0000290	.0000870	.0002363	.0005870	.0013448	.0028610	.0056874	.0130805
31	.0000101	.0000324	.0000937	.0002472	.0006003	.0013503	.0026315	.0075661
32	.0000033	.0000118	.0000354	.0000993	.0002556	.0006080	.0011455	.0041857

$$F(r,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 84

x/p	.17	.18	.19	.20	.21	.22	.23	.24
33	.0000011	.0000039	.0000127	.0000380	.0001038	.0002613	.0006104	.0013314
34	.0000003	.0000012	.0000044	.0000139	.0000402	.0001072	.0002644	.0006078
35	.0000001	.0000004	.0000014	.0000048	.0000149	.0000420	.0001093	.0002650
36		.0000001	.0000004	.0000016	.0000053	.0000157	.0000432	.0001104
37			.0000001	.0000005	.0000018	.0000056	.0000163	.0000439
38				.0000002	.0000006	.0000019	.0000059	.0000167
39					.0000002	.0000006	.0000020	.0000061
40					.0000001	.0000002	.0000007	.0000021
41						.0000001	.0000002	.0000007
42							.0000001	.0000002
43								.0000001

x/p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999991	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999950	.9999979	.9999992	.9999997	.9999999	.9999999	1.0000000	1.0000000
7	.9999772	.9999900	.9999957	.9999982	.9999993	.9999997	.9999999	1.0000000
8	.9999109	.9999590	.9999815	.9999919	.9999965	.9999985	.9999994	.9999998
9	.9996983	.9998541	.9999311	.9999682	.9999857	.9999937	.9999973	.9999989
10	.9990998	.9995428	.9997735	.9998905	.9999484	.9999762	.9999893	.9999953
11	.9976036	.9987225	.9993364	.9996639	.9998340	.9999201	.9999624	.9999828
12	.9942483	.9967837	.9982488	.9990711	.9995199	.9997581	.9998812	.9999431
13	.9874447	.9926398	.9958016	.9976687	.9987393	.9993359	.9996591	.9998295
14	.9748841	.9845759	.9907887	.9946480	.9969734	.9983336	.9991065	.9995333
15	.9536507	.9702072	.9813857	.9886906	.9933156	.9961552	.9978473	.9988265
16	.9206210	.9466476	.9651560	.9778790	.9863433	.9917985	.9952074	.9972743
17	.8731408	.9109502	.9392690	.9597470	.9740621	.9837463	.9900926	.9941243
18	.8098339	.8607809	.9009705	.9315418	.9539969	.9699426	.9809007	.9881949
19	.7312864	.7951690	.8482445	.8907138	.9234910	.9479224	.9655291	.9778087
20	.6403367	.7150907	.7805027	.8355602	.8802084	.9151403	.9415395	.9608336
21	.5418078	.6236500	.6990734	.7658521	.8227582	.8694797	.9065113	.9348642
22	.4417150	.5257367	.6072861	.6832352	.7513307	.8098413	.8585500	.8976238
23	.3461718	.4272220	.5100694	.5912300	.6675751	.7366487	.7968447	.8474389
24	.2603215	.3339166	.4131421	.4947800	.5754670	.6529908	.7221142	.7837772
25	.1875871	.2505932	.3220239	.3994464	.4798453	.5599831	.6367787	.7076329
26	.1293997	.1803313	.2411408	.3104684	.3861091	.4652438	.5447648	.6216345
27	.0853861	.1243117	.1732553	.2319472	.2992280	.3731071	.4509558	.5297992
28	.0538702	.0820306	.1193188	.1663513	.2229974	.2882829	.3604197	.4369635
29	.0324844	.0517890	.0787082	.1144212	.1596125	.2142781	.2776158	.3460285
30	.0187188	.0312709	.0497033	.0754239	.1096187	.1530328	.2057779	.2672112
31	.0103065	.0180544	.0300356	.0476203	.0721821	.1049115	.1466071	.1974866
32	.0054220	.0099654	.0173642	.0287855	.0455462	.0689868	.1002995	.1403308
33	.0027253	.0052582	.0096048	.0166542	.0275270	.0434867	.0658414	.0957830
34	.0013088	.0026521	.0050778	.0092201	.0159296	.0262658	.0414469	.0627493
35	.0006006	.0012786	.0025679	.0048836	.0088241	.0151953	.0250071	.0394314
36	.0002634	.0005892	.0012418	.0024744	.0046780	.0084174	.0144557	.0237555
37	.0001104	.0002596	.0005742	.0011992	.0023730	.0044636	.0080033	.0137148
38	.0000442	.0001093	.0002538	.0005558	.0011517	.0022654	.0042426	.0075849
39	.0000169	.0000440	.0001073	.0002463	.0005346	.0011002	.0021529	.0040171
40	.0000062	.0000169	.0000433	.0001044	.0002374	.0005111	.0010455	.0020368
41	.0000022	.0000062	.0000167	.0000423	.0001008	.0002272	.0004858	.0009884
42	.0000007	.0000022	.0000062	.0000164	.0000409	.0000965	.0002159	.0004389
43	.0000002	.0000007	.0000022	.0000061	.0000159	.0000392	.0000918	.0002038
44	.0000001	.0000002	.0000007	.0000021	.0000059	.0000152	.0000373	.0000866
45		.0000001	.0000002	.0000007	.0000021	.0000057	.0000145	.0000351
46			.0000001	.0000002	.0000007	.0000020	.0000054	.0000136
47				.0000001	.0000002	.0000007	.0000019	.0000051
48					.0000001	.0000002	.0000006	.0000018
49						.0000001	.0000002	.0000006
50							.0000001	.0000002
51								.0000001

x/p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999980	.9999992	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000
11	.9999923	.9999966	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000
12	.9999734	.9999879	.9999946	.9999977	.9999990	.9999996	.9999998	.9999999
13	.9999168	.9999605	.9999817	.9999917	.9999964	.9999984	.9999993	.9999997
14	.9997685	.9998823	.9999431	.9999738	.9999877	.9999948	.9999976	.9999990
15	.9993770	.9996779	.9998378	.9999209	.9999609	.9999809	.9999910	.9999965
16	.9984910	.9991867	.9995738	.9997819	.9998915	.9999475	.9999758	.9999886
17	.9966090	.9980954	.9989587	.9994459	.9997130	.9998581	.9999890	.9999661
18	.9929018	.9958468	.9976358	.9988998	.9998936	.9999894	.9999108	.9999061
19	.9861036	.9919344	.9949886	.9971068	.9993768	.9999140	.9998896	.9997571
20	.9744734	.9838181	.9900810	.9940136	.9986064	.9998049	.9997049	.9994180
21	.9558868	.9708989	.9833383	.9888889	.9972364	.9995311	.9992070	.9988643
22	.9279118	.9506161	.9730894	.9808451	.9948448	.9989485	.9980781	.9971588
23	.8884959	.9206948	.9581188	.9685504	.9907999	.9978831	.9959480	.9934480
24	.8361637	.8791439	.9373881	.9501717	.9837868	.9957448	.9918488	.9859338
25	.7706809	.8247586	.9089884	.9233895	.9733895	.9913083	.9835011	.9718930

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 64$$

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
26	.6932089	.7574760	.8131795	.8598256	.8975922	.9271745	.9496039	.9660721
27	.6066535	.6788451	.7442608	.8014949	.8498843	.8894447	.9207368	.9446962
28	.5150741	.5918304	.6645429	.7310121	.7896955	.8397694	.8810905	.9140837
29	.4232506	.5005779	.5771597	.6503029	.7177351	.7777896	.8294900	.8725382
30	.3359167	.4098022	.4862998	.5626360	.6361249	.7044343	.7657842	.8190543
31	.2570555	.3240697	.3966048	.4722295	.5482536	.6220081	.6911126	.7536851
32	.1893951	.2471366	.3124739	.3836458	.4583575	.5340069	.6079512	.6777725
33	.1342001	.1814958	.2374438	.3011175	.3709140	.4446749	.5198904	.5939523
34	.0913692	.1282116	.1737818	.2279675	.2899899	.3583993	.4311734	.5058988
35	.0597133	.0870375	.1223626	.1662472	.2186996	.2790814	.3460923	.4178453
36	.0374444	.0567362	.0828093	.1166505	.1588868	.2096325	.2683036	.3339848
37	.0225153	.0354896	.0536204	.0786780	.1110735	.1516963	.2007601	.2578091
38	.0129761	.0212994	.0335705	.0509684	.0746444	.1056301	.1446718	.1920767
39	.0071650	.0122432	.0200841	.0316901	.0481823	.0707090	.1003190	.1378103
40	.0037890	.0067460	.0115186	.0188998	.0298516	.0454641	.0668726	.0951393
41	.0019184	.0035601	.0063302	.0108059	.0177402	.0280573	.0428158	.0631360
42	.0009296	.0017988	.0033320	.0059199	.0101067	.0166080	.0263099	.0402394
43	.0004310	.0008699	.0016791	.0031061	.0055168	.0094237	.0155057	.0246115
44	.0001911	.0004024	.0008097	.0015602	.0028839	.0051227	.0087587	.0144352
45	.0000810	.0001781	.0003736	.0007499	.0014429	.0026664	.0047391	.0081136
46	.0000328	.0000753	.0001648	.0003447	.0006907	.0013282	.0024548	.0043674
47	.0000127	.0000304	.0000695	.0001515	.0003162	.0006328	.0012166	.0022500
48	.0000047	.0000118	.0000280	.0000636	.0001383	.0002882	.0005765	.0011088
49	.0000017	.0000043	.0000108	.0000255	.0000578	.0001254	.0002611	.0005223
50	.0000006	.0000015	.0000040	.0000098	.0000231	.0000521	.0001129	.0002350
51	.0000002	.0000005	.0000014	.0000035	.0000088	.0000207	.0000466	.0001009
52	.0000001	.0000002	.0000005	.0000012	.0000032	.0000078	.0000184	.0000414
53			.0000001	.0000004	.0000011	.0000028	.0000069	.0000162
54				.0000001	.0000004	.0000010	.0000025	.0000060
55					.0000001	.0000003	.0000008	.0000021
56						.0000001	.0000003	.0000007
57							.0000001	.0000002
58								.0000001

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999985	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999949	.9999978	.9999991	.9999996	.9999998	.9999999	1.0000000	1.0000000
17	.9999843	.9999929	.9999969	.9999987	.9999994	.9999998	.9999999	1.0000000
18	.9999546	.9999787	.9999903	.9999957	.9999981	.9999992	.9999997	.9999999
19	.9998780	.9999404	.9999717	.9999870	.9999942	.9999975	.9999989	.9999996
20	.9996930	.9998441	.9999331	.9999632	.9999828	.9999923	.9999966	.9999986
21	.9992751	.9996176	.9998039	.9999023	.9999528	.9999778	.9999899	.9999955
22	.9983901	.9991175	.9995299	.9997567	.9998778	.9999404	.9999718	.9999870
23	.9966290	.9980806	.9989380	.9994292	.9997020	.9998490	.9999257	.9999646
24	.9933299	.9960565	.9977343	.9987353	.9993144	.9996392	.9998157	.9999087
25	.9875030	.9923312	.9954263	.9973497	.9985083	.9991849	.9995678	.9997777
26	.9777850	.9858568	.9912476	.9947368	.9969255	.9982562	.9990400	.9994873
27	.9634603	.9752179	.9840941	.9900780	.9939868	.9964609	.9979780	.9988791
28	.9395840	.9586684	.9725017	.9822148	.9888219	.9931757	.9959548	.9976730
29	.9072220	.9342722	.9546992	.9696378	.9802192	.9874717	.9923026	.9954067
30	.8637953	.9001581	.9287653	.9505554	.9666274	.9781074	.9860483	.9913671
31	.8084692	.8548668	.8929978	.9230676	.9462398	.9634721	.9758808	.9845308
32	.7414971	.7977407	.8457645	.8854461	.9171829	.9417550	.9601733	.9735383
33	.6644153	.7292239	.7868738	.8364877	.8778076	.9111150	.9371036	.9567326
34	.5800093	.6510418	.7168667	.7758726	.8270427	.8699864	.9048668	.9322879
35	.4920258	.5661190	.6376523	.7044334	.7647404	.8174333	.8619858	.8984414
36	.4046834	.4782695	.5522813	.6242464	.6919195	.7534797	.8076621	.8536087
37	.3220691	.3916814	.4646221	.5384910	.6108234	.6793278	.7420922	.7977316
38	.2475913	.3103387	.3786333	.4510802	.5247461	.5973881	.6666584	.7305791
39	.1835776	.2374845	.2987875	.3661337	.4376391	.5110436	.5839209	.6539110
40	.1311092	.1752589	.2275637	.2874105	.3535778	.4248952	.4973807	.5704380
41	.0900905	.1245665	.1671172	.2178248	.2760032	.3411613	.4110447	.4837546
42	.0595002	.0851722	.1181806	.1591498	.2082645	.2651617	.3288804	.3978843
43	.0377364	.0559661	.0803845	.1119504	.1513548	.1980799	.2542830	.3167388
44	.0229648	.0353087	.0525348	.0757275	.1058752	.1437307	.1896569	.2435646
45	.0133986	.0213698	.0329578	.0492072	.0712017	.0999548	.1368765	.1806303
46	.0074900	.0123977	.0198301	.0306851	.0459846	.0668077	.0941893	.1289918
47	.0040088	.0068893	.0114338	.0183466	.0284921	.0426681	.0625462	.0885791
48	.0020529	.0036643	.0063127	.0105085	.0169207	.0263801	.0398588	.0584104
49	.0010052	.0018641	.0033347	.0057613	.0096248	.0155335	.0243503	.0369579
50	.0004703	.0009064	.0016842	.0030209	.0052359	.0087777	.0142468	.0224039
51	.0008101	.0004209	.0008126	.0015137	.0027234	.0047373	.0079741	.0138997
52	.0000896	.0001868	.0003743	.0007242	.0013530	.0024428	.0042660	.0072125
53	.0000364	.0000788	.0001644	.0003306	.0006414	.0012083	.0021792	.0038824
54	.0000141	.0000317	.0000688	.0001438	.0002899	.0005644	.0010619	.0019330
55	.0000052	.0000122	.0000274	.0000596	.0001248	.0002524	.0004931	.0009318
56	.0000018	.0000044	.0000104	.0000235	.0000511	.0001074	.0002180	.0004276
57	.0000006	.0000015	.0000037	.0000088	.0000199	.0000435	.0000916	.0001867
58	.0000002	.0000005	.0000013	.0000031	.0000074	.0000167	.0000366	.0000774
59	.0000001	.0000002	.0000004	.0000011	.0000026	.0000061	.0000136	.0000304
60			.0000001	.0000003	.0000009	.0000021	.0000050	.0000113

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 64$$

r	.41	.42	.43	.44	.45	.46	.47	.48
61				.0000001	.0000003	.0000007	.0000017	.0000040
62					.0000001	.0000002	.0000005	.0000013
63						.0000001	.0000002	.0000004
64								.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	.9999998	.9999999
20	.9999994	.9999998
21	.9999981	.9999992
22	.9999942	.9999975
23	.9999836	.9999927
24	.9999562	.9999796
25	.9998891	.9999464
26	.9997345	.9998668
27	.9993974	.9996860
28	.9987017	.9992978
29	.9973409	.9985073
30	.9948162	.9969810
31	.9903690	.9941828
32	.9829263	.9893084
33	.9710825	.9812352
34	.9531516	.9685139
35	.9273100	.9494318
36	.8918411	.9221718
37	.8454572	.8850678
38	.7876432	.8369329
39	.7189406	.7773977
40	.6410846	.7071766
41	.5569314	.6281779
42	.4701623	.5433988
43	.3848110	.4566012
44	.3047138	.3718221
45	.2330048	.2928234
46	.1717630	.2226023
47	.1218769	.1630671
48	.0831251	.1149322
49	.0544253	.0778282
50	.0341667	.0505682
51	.0205417	.0314861
52	.0116146	.0187648
53	.0064935	.0106916
54	.0034067	.0058172
55	.0017042	.0030190
56	.0008119	.0014927
57	.0003680	.0007022
58	.0001585	.0003140
59	.0000647	.0001332
60	.0000251	.0000536
61	.0000092	.0000204
62	.0000032	.0000073
63	.0000010	.0000025
64	.0000003	.0000008
65	.0000001	.0000002
66		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 85

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.5744099	.8264372	.9249074	.9688789	.9872207	.9948016	.9979056	.9991645
2	.2090042	.5089506	.7274980	.8566584	.9300502	.9665977	.9845063	.9929888
3	.0539836	.2419632	.4710713	.6657725	.8036734	.8909871	.9421469	.9704340
4	.0106614	.0912136	.2516539	.4434178	.6196510	.7574620	.8539363	.9161719
5	.0016906	.0281453	.1125388	.2534899	.4211005	.5827431	.7178263	.8194437
6	.0002337	.0072942	.0428378	.1252886	.2518101	.4020762	.5518600	.6831832
7	.0000250	.0016204	.0140951	.0540657	.1330098	.2483172	.3852988	.5252000
8	.0000024	.0003136	.0040627	.0205739	.0624442	.1375146	.2438113	.3701606
9	.0000002	.0000536	.0010375	.0069679	.0262229	.0686226	.1399778	.2387141
10		.0000082	.0002370	.0021176	.0099273	.0309789	.0731125	.1409230
11		.0000011	.0000488	.0005817	.0034053	.0127176	.0348626	.0762958
12		.0000001	.0000091	.0001453	.0010645	.0047703	.0152329	.0379793
13			.0000016	.0000332	.0003048	.0016421	.0061217	.0174328
14			.0000002	.0000070	.0000803	.0005209	.0022707	.0074001
15				.0000014	.0000196	.0001528	.0007799	.0029134
16				.0000002	.0000044	.0000416	.0002468	.0010667
17					.0000009	.0000105	.0000740	.0003641
18					.0000002	.0000025	.0000205	.0001162
19						.0000006	.0000053	.0000347
20						.0000001	.0000013	.0000097
21							.0000003	.0000026
22							.0000001	.0000006
23								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9996700	.9998710	.9999501	.9999809	.9999928	.9999973	.9999990	.9999996
2	.9969958	.9986526	.9994258	.9997595	.9999009	.9999598	.9999840	.9999937
3	.9853722	.9929667	.9967042	.9984916	.9993246	.9997038	.9998726	.9999463
4	.9538405	.9754880	.9873978	.9937081	.9969421	.9985507	.9993291	.9996963
5	.8899110	.9356752	.9638180	.9803359	.9896440	.9947024	.9973627	.9987202
6	.7874832	.8640123	.9166054	.9507957	.9719775	.9845537	.9917410	.9957084
7	.6524135	.7578449	.8380018	.8970862	.9367798	.9625255	.9785136	.9880592
8	.5016529	.6247145	.7302765	.8144293	.8774235	.9220552	.9521699	.9716160
9	.3562766	.4804898	.5994974	.7045333	.7909475	.8578202	.9068432	.9410786
10	.2332659	.3433073	.4612079	.5763213	.6803952	.7683560	.8384089	.8913141
11	.1408051	.2276119	.3313090	.4434469	.5543484	.6576701	.7466263	.8192740
12	.0784564	.1399033	.2218436	.3199068	.4269402	.5348156	.6361927	.7257154
13	.0404308	.0790066	.1384122	.2160207	.3090705	.4114853	.5160150	.6158215
14	.0193122	.0423104	.0805077	.1364716	.2101830	.2987448	.3969249	.4982786
15	.0085707	.0208840	.0437017	.0806840	.1341845	.2043575	.2888431	.3831349
16	.0035483	.0096157	.0221694	.0446755	.0804323	.1316261	.1985631	.2793228
17	.0013665	.0041374	.0105263	.0231932	.0452926	.0798295	.1288615	.1928127
18	.0004931	.0016670	.0046855	.0113033	.0239806	.0456041	.0789369	.1259309
19	.0001668	.0006301	.0019583	.0051782	.0119502	.0245560	.0456538	.0778044
20	.0000530	.0002238	.0007697	.0022329	.0056110	.0124733	.0249420	.0454788
21	.0000158	.0000748	.0002849	.0009075	.0024852	.0059023	.0128805	.0251598
22	.0000045	.0000236	.0000995	.0003480	.0010395	.0027117	.0062922	.0131804
23	.0000012	.0000070	.0000328	.0001261	.0004110	.0011628	.0029100	.0065424
24	.0000003	.0000020	.0000102	.0000432	.0001538	.0004721	.0012752	.0030792
25	.0000001	.0000005	.0000030	.0000140	.0000545	.0001817	.0005299	.0013750
26		.0000001	.0000008	.0000043	.0000183	.0000663	.0002089	.0005830
27			.0000002	.0000013	.0000058	.0000230	.0000782	.0002348
28			.0000001	.0000003	.0000018	.0000076	.0000278	.0000899
29				.0000001	.0000005	.0000024	.0000094	.0000328
30					.0000001	.0000007	.0000030	.0000114
31						.0000002	.0000009	.0000038
32						.0000001	.0000003	.0000012
33							.0000001	.0000004
34								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999776	.9999891	.9999947	.9999979	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999777	.9999909	.9999964	.9999986	.9999995	.9999998	.9999999	1.0000000
4	.9998654	.9999416	.9999752	.9999896	.9999958	.9999983	.9999993	.9999997
5	.9993939	.9997196	.9998731	.9999439	.9999757	.9999897	.9999957	.9999983
6	.9978294	.9989301	.9994855	.9997584	.9998891	.9999503	.9999782	.9999906
7	.9935568	.9966193	.9982730	.9991402	.9995825	.9998021	.9999084	.9999585
8	.9836804	.9908946	.9950653	.9973960	.9986624	.9993303	.9996730	.9998442
9	.9639575	.9786424	.9877225	.9931446	.9962779	.9980331	.9989876	.9994920
10	.9293962	.9556323	.9729906	.9840513	.9908548	.9949026	.9972358	.9985407
11	.8755972	.9172446	.9467278	.9667739	.9798907	.9881922	.9932593	.9962574
12	.8004672	.8597907	.9047251	.9373239	.9600417	.9752875	.9851605	.9913412
13	.7055740	.7820178	.8439680	.8919218	.9274913	.9528422	.9702428	.9817676
14	.5964337	.6861513	.7639395	.8281842	.8789034	.9172928	.9452208	.9647910
15	.4814700	.5779259	.6673971	.7462358	.8124795	.8657265	.9067827	.9372200
16	.3700153	.4654768	.5602073	.6492636	.7289030	.7968834	.8524368	.8960085
17	.2701424	.3574846	.4503054	.5432003	.6317057	.7119327	.7814166	.8390715
18	.1871156	.2612678	.3454759	.4355771	.5268368	.6146815	.6953135	.7660935
19	.1228726	.1814782	.2526704	.3339331	.4215254	.5110577	.5981524	.6790321
20	.0754726	.1197156	.1759053	.2443259	.3228091	.4079933	.4958111	.5820828
21	.0441107	.0749753	.1164834	.1703999	.2362137	.3120641	.3949318	.4810514
22	.0253284	.0445769	.0733405	.1131952	.1649643	.2283163	.3016630	.3822989
23	.0138417	.0251650	.0439007	.0715919	.1098670	.1596003	.2206185	.2915789
24	.0071755	.0134932	.0249853	.0431026	.0697493	.1065119	.1553088	.2131071
25	.0035148	.0068744	.0135232	.0247033	.0422002	.0676301	.1031412	.1490907
26	.0016613	.0033294	.0069629	.0134797	.0243316	.0412090	.0658487	.0997643
27	.0006306	.0015335	.0034117	.0070046	.0133704	.0238817	.0401426	.0638180
28	.0003588	.0006721	.0015916	.0034672	.0070033	.0132022	.0233637	.0390130
29	.0001011	.0002804	.0007071	.0016354	.0034973	.0069628	.0129820	.0227871
30	.0000376	.0001114	.0002993	.0007353	.0016656	.0035038	.0068867	.0127159
31	.0000133	.0000422	.0001208	.0003152	.0007566	.0016826	.0034884	.0067791

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 85$$

r	.17	.18	.19	.20	.21	.22	.23	.24
32	.0000045	.0000152	.0000465	.0001289	.0003280	.0007713	.0016873	.0034530
33	.0000014	.0000052	.0000171	.0000503	.0001357	.0003375	.0007795	.0016804
34	.0000004	.0000017	.0000060	.0000187	.0000536	.0001411	.0003440	.0007815
35	.0000001	.0000005	.0000020	.0000067	.0000202	.0000563	.0001450	.0003473
36		.0000002	.0000006	.0000023	.0000073	.0000215	.0000584	.0001475
37			.0000002	.0000007	.0000025	.0000078	.0000225	.0000599
38			.0000001	.0000002	.0000008	.0000027	.0000083	.0000232
39				.0000001	.0000003	.0000009	.0000029	.0000086
40					.0000001	.0000003	.0000010	.0000031
41						.0000001	.0000003	.0000010
42							.0000001	.0000003
43								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999961	.9999984	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
7	.9999817	.9999921	.9999966	.9999986	.9999994	.9999998	.9999999	1.0000000
8	.9999275	.9999671	.9999854	.9999937	.9999973	.9999989	.9999995	.9999998
9	.9997515	.9998814	.9999447	.9999749	.9999888	.9999952	.9999979	.9999992
10	.9992494	.9996237	.9998161	.9999123	.9999592	.9999815	.9999918	.9999964
11	.9976776	.9989358	.9994544	.9997274	.9998672	.9999369	.9999708	.9999868
12	.9950871	.9972878	.9985424	.9992371	.9996110	.9998067	.9999064	.9999558
13	.9891456	.9937172	.9964623	.9980614	.9989657	.9994625	.9997279	.9998658
14	.9780242	.9866735	.9921422	.9954938	.9974855	.9986343	.9992778	.9996281
15	.9589590	.9739430	.9839245	.9903587	.9943763	.9968087	.9982377	.9990527
16	.9288784	.9527731	.9695380	.9809062	.9883653	.9931055	.9960258	.9977710
17	.8850109	.9202315	.9462585	.9644240	.9776236	.9861620	.9916702	.9951323
18	.8256606	.8738249	.9113111	.9394392	.9598158	.9740837	.9837502	.9900923
19	.7509233	.8122281	.8624805	.9023456	.9323378	.9545284	.9702943	.9811323
20	.6630741	.7359111	.7987930	.8510032	.8927604	.9249749	.9489763	.9662636
21	.5664400	.6474246	.7210593	.7853704	.8394145	.8831779	.9173701	.9431734
22	.4667302	.5511942	.6320687	.7063679	.7719719	.8277328	.8734180	.9095407
23	.3700576	.4528358	.5363179	.6169914	.6918352	.7586065	.8159734	.8634481
24	.2817841	.3581760	.4393125	.5217860	.6021784	.6774582	.7452806	.8041489
25	.2057707	.2722573	.3466258	.4261399	.5075756	.5876154	.6632327	.7319991
26	.1439465	.1985994	.2629792	.3353023	.4132226	.4936656	.5732891	.6491540
27	.0963895	.1388768	.1915844	.2539332	.3244235	.4007481	.4800366	.5591865
28	.0617491	.0930237	.1338817	.1847182	.2451043	.3137302	.3884859	.4666709
29	.0378308	.0596518	.0896731	.1289616	.1779941	.2364796	.3032850	.3764877
30	.0221602	.0366056	.0575346	.0853432	.1241169	.1714064	.2280477	.2930727
31	.0124096	.0214907	.0353459	.0554053	.0830387	.1193479	.1649501	.2197984
32	.0066431	.0120685	.0207855	.0340593	.0532706	.0797642	.1146549	.1586207
33	.0033994	.0064821	.0116977	.0200509	.0327526	.0511367	.0765234	.1100383
34	.0016689	.0033297	.0062993	.0113016	.0192928	.0314321	.0490092	.0733201
35	.0007777	.0016357	.0032456	.0060978	.0108847	.0185164	.0301034	.0468931
36	.0003477	.0007685	.0015998	.0031490	.0058804	.0104508	.0177266	.0287718
37	.0001486	.0003453	.0007544	.0015562	.0030415	.0056498	.0100036	.0169278
38	.0000607	.0001484	.0003403	.0007359	.0015059	.0029249	.0054084	.0095465
39	.0000237	.0000610	.0001468	.0003330	.0007136	.0014497	.0028007	.0051588
40	.0000089	.0000240	.0000606	.0001441	.0003236	.0006878	.0013888	.0026705
41	.0000032	.0000090	.0000235	.0000597	.0001404	.0003124	.0006593	.0013239
42	.0000011	.0000032	.0000090	.0000236	.0000583	.0001357	.0002995	.0006263
43	.0000004	.0000011	.0000033	.0000090	.0000231	.0000564	.0001302	.0002854
44	.0000001	.0000004	.0000011	.0000032	.0000088	.0000224	.0000548	.0001241
45		.0000001	.0000004	.0000011	.0000032	.0000085	.0000215	.0000516
46			.0000001	.0000004	.0000011	.0000031	.0000083	.0000205
47				.0000001	.0000004	.0000011	.0000030	.0000078
48					.0000001	.0000004	.0000010	.0000028
49						.0000001	.0000003	.0000010
50							.0000001	.0000003
51								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999997	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999985	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999942	.9999975	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000
12	.9999796	.9999909	.9999960	.9999983	.9999993	.9999997	.9999999	1.0000000
13	.9999355	.9999698	.9999862	.9999939	.9999973	.9999989	.9999995	.9999998
14	.9998134	.9999089	.9999566	.9999799	.9999909	.9999960	.9999983	.9999993
15	.9995042	.9997474	.9998747	.9999395	.9999715	.9999870	.9999942	.9999975
16	.9987834	.9993537	.9996658	.9998318	.9999176	.9999607	.9999818	.9999918
17	.9972301	.9984664	.9991738	.9995669	.9997791	.9998903	.9999470	.9999751
18	.9941248	.9966111	.9980985	.9990620	.9994488	.9997153	.9998569	.9999301
19	.9883468	.9930006	.9959110	.9976767	.9987160	.9993099	.9996393	.9998167
20	.9783114	.9864416	.9917576	.9951271	.9971985	.9984337	.9991486	.9995500
21	.9630001	.9752914	.9843772	.9903946	.9942573	.9966617	.9981132	.9989634
22	.9371332	.9575133	.9720767	.9821549	.9889108	.9932999	.9960644	.9977528
23	.9015029	.9308680	.9528086	.9686717	.9797761	.9873059	.9922537	.9954051

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 05

r	.33	.34	.35	.36	.37	.38	.39	.40
24	.8534333	.8932712	.9243898	.9478973	.9650813	.9772431	.9855001	.9911179
25	.7922701	.8432370	.8840586	.9177095	.9427863	.9613103	.9745582	.9837345
26	.7187644	.7803456	.8329206	.8766268	.9108372	.9374831	.9573638	.9717241
27	.6352160	.7055796	.7683824	.8224940	.8675362	.9037880	.9319950	.9532466
28	.5452053	.6214154	.6924441	.7563859	.8119654	.8586460	.8965526	.9263287
29	.4535524	.5316038	.6077438	.6793582	.7443605	.8013419	.8496142	.8891564
30	.3647369	.4406660	.5181008	.5941961	.6663207	.7323093	.7906295	.8404478
31	.2830797	.3532187	.4279980	.5047758	.5807660	.6533301	.7202345	.7798328
32	.2117231	.2732939	.3419197	.4155359	.4916191	.5674473	.6403842	.7081375
33	.1524145	.2038137	.2637043	.3308277	.4032681	.4786211	.5542341	.6274804
34	.1054987	.1463203	.1960635	.2543015	.3199318	.3911840	.4657730	.5411202
35	.0701575	.1010367	.1403593	.1884665	.2450770	.3092222	.3792739	.4530667
36	.0447931	.0670387	.0966529	.1345053	.1810175	.2360231	.2986900	.3675290
37	.0274419	.0427134	.0639665	.0923483	.1287644	.1737120	.2271333	.2883974
38	.0161241	.0261181	.0406580	.0609439	.0881232	.1231358	.1665462	.2184017
39	.0090827	.0153192	.0248043	.0386303	.0579732	.0839790	.1175166	.1595169
40	.0049031	.0086150	.0145167	.0235043	.0366339	.0550571	.0799167	.1122077
41	.0025357	.0046433	.0081463	.0137197	.0222814	.0346719	.0521980	.0759373
42	.0012550	.0023976	.0043814	.0076788	.0129311	.0209688	.0327472	.0493980
43	.0005955	.0011857	.0022576	.0041191	.0072151	.0121537	.0197193	.0308627
44	.0002703	.0005614	.0011140	.0021167	.0038581	.0067571	.0113300	.0185057
45	.0001174	.0002543	.0005262	.0010416	.0019761	.0035998	.0063068	.0106422
46	.0000488	.0001103	.0002379	.0004906	.0009690	.0018367	.0033457	.0058659
47	.0000194	.0000457	.0001028	.0002210	.0004548	.0008971	.0016995	.0030970
48	.0000073	.0000181	.0000425	.0000952	.0002041	.0004192	.0008262	.0015653
49	.0000027	.0000069	.0000168	.0000392	.0000876	.0001873	.0003841	.0007569
50	.0000009	.0000025	.0000063	.0000154	.0000359	.0000800	.0001707	.0003499
51	.0000003	.0000009	.0000023	.0000058	.0000141	.0000326	.0000725	.0001546
52	.0000001	.0000003	.0000008	.0000021	.0000053	.0000127	.0000294	.0000652
53		.0000001	.0000003	.0000007	.0000019	.0000047	.0000114	.0000262
54			.0000001	.0000002	.0000006	.0000017	.0000042	.0000101
55				.0000001	.0000002	.0000006	.0000015	.0000037
56					.0000001	.0000002	.0000005	.0000013
57						.0000001	.0000002	.0000004
58								.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999990	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999980	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999964	.9999985	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000
17	.9999886	.9999950	.9999978	.9999991	.9999996	.9999999	1.0000000	1.0000000
18	.9999660	.9999847	.9999931	.9999970	.9999987	.9999995	.9999998	.9999999
19	.9999094	.9999565	.9999797	.9999908	.9999960	.9999983	.9999993	.9999997
20	.9997688	.9998846	.9999440	.9999736	.9999879	.9999946	.9999977	.9999990
21	.9994464	.9997127	.9998552	.9999291	.9999663	.9999845	.9999930	.9999970
22	.9987529	.9993275	.9996478	.9998208	.9999115	.9999576	.9999803	.9999911
23	.9973510	.9985161	.9991925	.9995733	.9997811	.9998910	.9999474	.9999754
24	.9946825	.9969067	.9982519	.9990406	.9994088	.9997357	.9998674	.9999355
25	.9898921	.9938959	.9964187	.9979593	.9988711	.9993939	.9996843	.9998406
26	.9817604	.9885761	.9930444	.9958864	.9976378	.9986834	.9992880	.9996267
27	.9687434	.9796862	.9871701	.9921279	.9953093	.9972867	.9984771	.9991710
28	.9489633	.9656192	.9774865	.9856746	.9911461	.9946869	.9960057	.9982519
29	.9204904	.9445186	.9623543	.9751717	.9840904	.9900993	.9940191	.9964946
30	.8816003	.9144860	.9399169	.9589516	.9727437	.9824182	.9898870	.9933061
31	.8311529	.8738903	.9083208	.9351622	.9554142	.9702043	.9806592	.9878122
32	.7689556	.8217145	.8660318	.9019995	.9302585	.9517449	.9675555	.9788147
33	.6960188	.7580010	.8121968	.8580294	.8955265	.9252094	.9479464	.9647993
34	.6146158	.6838783	.7469709	.8025432	.8498869	.8889055	.9200181	.9440214
35	.5280996	.6017871	.6717153	.7358666	.7927765	.8416077	.8821399	.9146877
36	.4404943	.5151667	.5889908	.6595287	.7246809	.7820983	.8331943	.8752324
37	.3559410	.4280484	.5023156	.5762574	.6473166	.7134376	.7729101	.8246486
38	.2781272	.3445026	.4157225	.4895409	.5634809	.6350771	.7021123	.7628123
39	.2098332	.2680832	.3332072	.4035101	.4768372	.5507593	.6208075	.6907117
40	.1526213	.2013936	.2581899	.3220487	.3914053	.4641995	.5380546	.6105051
41	.1069081	.1458573	.1931092	.2484425	.3110217	.3794029	.4516226	.5253626
42	.0720422	.1017178	.1392233	.1842668	.2388369	.3001215	.3674976	.4391020
43	.0466596	.0682327	.0966368	.1327181	.1769642	.2293695	.2893438	.3556852
44	.0290208	.0439848	.0645101	.0916656	.1263410	.1690993	.2200375	.2786850
45	.0173205	.0272242	.0413759	.0608761	.0868048	.1200917	.1613709	.2108387
46	.0099125	.0161660	.0254750	.0388348	.0573323	.0820554	.1139703	.1537783
47	.0054361	.0092028	.0150442	.0237755	.0363637	.0538803	.0774185	.1079772
48	.0028548	.0050108	.0085148	.0139573	.0221278	.0339646	.0505219	.0728956
49	.0014348	.0026202	.0046153	.0078501	.0129068	.0205338	.0316393	.0472590
50	.0006896	.0013046	.0023939	.0042267	.0072100	.0118946	.0189952	.0293898
51	.0003168	.0006248	.0011874	.0021769	.0038541	.0065959	.0109220	.0175137
52	.0001390	.0002850	.0005628	.0010716	.0019697	.0034983	.0060000	.0099904
53	.0000582	.0001241	.0002547	.0005038	.0009616	.0017722	.0031600	.0054497
54	.0000238	.0000515	.0001099	.0002260	.0004481	.0008578	.0015870	.0028399
55	.0000088	.0000204	.0000452	.0000967	.0001991	.0003959	.0007604	.0014124
56	.0000032	.0000077	.0000177	.0000394	.0000843	.0001741	.0003473	.0006696
57	.0000011	.0000028	.0000066	.0000153	.0000340	.0000739	.0001510	.0003023
58	.0000004	.0000009	.0000023	.0000056	.0000130	.0000290	.0000624	.0001208

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 65

r \ p								
59	.0000001	.0000003	.0000008	.0000020	.0000047	.0000110	.0000245	.0000530
60		.0000001	.0000003	.0000007	.0000016	.0000039	.0000091	.0000205
61			.0000001	.0000002	.0000005	.0000013	.0000032	.0000075
62				.0000001	.0000002	.0000004	.0000011	.0000026
63						.0000001	.0000003	.0000009
64							.0000001	.0000003
65								.0000001

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	.9999999	1.0000000
20	.9999996	.9999998
21	.9999987	.9999995
22	.9999961	.9999984
23	.9999888	.9999951
24	.9999696	.9999861
25	.9999220	.9999610
26	.9998103	.9999066
27	.9995626	.9997764
28	.9990426	.9994919
29	.9980076	.9988025
30	.9960533	.9977442
31	.9925401	.9955819
32	.9865732	.9917456
33	.9768860	.9852718
34	.9619378	.9748746
35	.9399724	.9589729
36	.9093208	.9358018
37	.8681853	.9036198
38	.8139720	.8610004
39	.7526049	.8071653
40	.6792341	.7422871
41	.5981665	.6676773
42	.5126792	.5857884
43	.4265331	.5000000
44	.3439614	.4142116
45	.2681422	.3323227
46	.2017715	.2577129
47	.1453211	.1928347
48	.1021134	.1389996
49	.0694882	.0963802
50	.0440934	.0641982
51	.0272179	.0410271
52	.0160909	.0251254
53	.0091008	.0147282
54	.0049192	.0082544
55	.0025304	.0044181
56	.0012491	.0023558
57	.0005855	.0010975
58	.0002611	.0005081
59	.0001107	.0002236
60	.0000445	.0000934
61	.0000170	.0000370
62	.0000061	.0000139
63	.0000021	.0000049
64	.0000007	.0000016
65	.0000002	.0000005
66	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 09$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.5706658	.8340884	.9271601	.9701238	.9870397	.9951135	.9980522	.9992313
2	.8136583	.5151804	.7334811	.8630672	.9329088	.9682899	.9854442	.9934828
3	.0555338	.2473019	.4787641	.6734879	.8099983	.8955237	.9451121	.9782384
4	.0110946	.0948286	.2582364	.4523120	.6288521	.7654735	.8601110	.9205129
5	.0017803	.0294067	.1167128	.2610871	.4310280	.5932262	.7273540	.8271820
6	.0002373	.0077112	.0449280	.1304167	.2602746	.4129162	.5634776	.6940841
7	.0000269	.0017339	.0149574	.0569146	.1389498	.2575427	.3969581	.5378387
8	.0000027	.0003397	.0043637	.0219136	.0659725	.1442054	.2537155	.3825637
9	.0000002	.0000588	.0011282	.0075121	.0280435	.0727585	.1472461	.2492298
10		.0000091	.0002610	.0023116	.0107486	.0332375	.0777930	.1487463
11		.0000013	.0000544	.0006431	.0037311	.0138133	.0375401	.0814660
12		.0000002	.0000103	.0001628	.0011815	.0052471	.0166070	.0410447
13			.0000018	.0000377	.0003488	.0018298	.0067594	.0190765
14			.0000003	.0000080	.0000915	.0005881	.0025402	.0080027
15				.0000016	.0000226	.0001749	.0008843	.0032723
16				.0000003	.0000052	.0000483	.0002860	.0012144
17					.0000011	.0000124	.0000868	.0004803
18					.0000002	.0000030	.0000243	.0001360
19						.0000007	.0000064	.0000412
20						.0000001	.0000016	.0000117
21							.0000004	.0000031
22							.0000001	.0000008
23								.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9996997	.9998839	.9999556	.9999832	.9999937	.9999977	.9999991	.9999997
2	.9971455	.9987744	.9994835	.9997861	.9999189	.9999651	.9999862	.9999947
3	.9864093	.9935353	.9970036	.9986437	.9993996	.9997397	.9998893	.9999539
4	.9566784	.9772358	.9884215	.9942821	.9972519	.9987121	.9994106	.9997363
5	.8956646	.9396565	.9664117	.9819406	.9905988	.9952412	.9976576	.9988764
6	.7967017	.8711786	.9217987	.9543405	.9742741	.9859745	.9925843	.9961903
7	.6545698	.7684617	.8473602	.9035313	.9413555	.9656095	.9844977	.9892830
8	.5152214	.6380275	.7422143	.8243402	.8851398	.9277210	.9561214	.9742469
9	.3693605	.4949123	.6138831	.7177208	.8021894	.8668131	.9136422	.9459646
10	.2443369	.3570976	.4764198	.5917067	.6947670	.7808810	.8486740	.8992764
11	.1421266	.2391894	.3455979	.4593919	.5711695	.6731662	.7603937	.8308004
12	.0840678	.1486741	.2330848	.3347316	.4435693	.5520154	.6527578	.7406847
13	.0438529	.0858163	.1475496	.2284871	.3244005	.4387515	.5340417	.6334042
14	.0212129	.0460600	.0868772	.1460175	.2230394	.3145285	.4147884	.5170854
15	.0095374	.0230266	.0477503	.0873785	.1440643	.2175717	.3050554	.4015579
16	.0039948	.0107421	.0245380	.0489965	.0874201	.1416102	.2131051	.2959327
17	.0015623	.0046852	.0118070	.0257711	.0498607	.0870813	.1393160	.2066543
18	.0005717	.0019141	.0053280	.0127301	.0267512	.0503957	.0864256	.1366320
19	.0001961	.0007338	.0022583	.0059132	.0135141	.0275027	.0506463	.0855046
20	.0000632	.0002644	.0009005	.0025863	.0064351	.0141648	.0280488	.0506509
21	.0000192	.0000897	.0003383	.0010665	.0028916	.0068910	.0146897	.0284109
22	.0000055	.0000287	.0001199	.0004152	.0012274	.0031696	.0073605	.0150971
23	.0000015	.0000087	.0000401	.0001528	.0004927	.0013796	.0034174	.0073045
24	.0000004	.0000025	.0000127	.0000532	.0001873	.0005688	.0015204	.0036533
25	.0000001	.0000007	.0000038	.0000175	.0000674	.0002224	.0006417	.0016477
26		.0000002	.0000011	.0000055	.0000230	.0000825	.0002571	.0007097
27			.0000003	.0000016	.0000075	.0000291	.0000979	.0002906
28			.0000001	.0000005	.0000023	.0000097	.0000354	.0001131
29				.0000001	.0000007	.0000031	.0000122	.0000419
30					.0000002	.0000009	.0000040	.0000148
31						.0000003	.0000012	.0000050
32						.0000001	.0000004	.0000016
33							.0000001	.0000005
34								.0000001

x	.17	.18	.19	.20	.21	.22	.33	.34
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999980	.9999998	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999811	.9999924	.9999970	.9999988	.9999996	.9999998	.9999999	1.0000000
4	.9998845	.9999505	.9999792	.9999914	.9999965	.9999986	.9999995	.9999998
5	.9994741	.9997596	.9998925	.9999530	.9999799	.9999915	.9999965	.9999986
6	.9980954	.9990722	.9995991	.9997955	.9999073	.9999589	.9999822	.9999925
7	.9942631	.9970353	.9985034	.9992638	.9996469	.9998347	.9999244	.9999668
8	.9853594	.9919250	.9956731	.9977449	.9988556	.9994341	.9997871	.9998716
9	.9673104	.9808478	.9891173	.9939940	.9967786	.9990185	.9991452	.9995766
10	.9352717	.9597741	.9757897	.9858699	.9919935	.9968913	.9976367	.9987690
11	.8847431	.9241504	.9517178	.9702394	.9821935	.9896685	.9941739	.9968054
12	.8133393	.8701324	.9127056	.9431139	.9640117	.9781265	.9870232	.9935811
13	.7217058	.7960169	.8555119	.9010022	.9343269	.9577002	.9736738	.9840653
14	.6148875	.7034073	.7791449	.8409317	.8891563	.9251136	.9509759	.9668654
15	.5010138	.5974064	.6857402	.7626255	.8264285	.8770711	.9156835	.9438370
16	.3889626	.4857176	.5805734	.6686480	.7464541	.8120289	.8649364	.9058998
17	.2871008	.3769232	.4711058	.5644129	.6521171	.7306219	.7977513	.8527164
18	.2018301	.2785868	.3653745	.4571018	.5488892	.6360768	.7151172	.7836003
19	.1337939	.1958404	.2703034	.3542819	.4436408	.5330549	.6204994	.6999868
20	.0843606	.1308329	.1904906	.2627473	.3455395	.4306674	.5193496	.6053506
21	.0504423	.0830286	.1277736	.1851851	.2643908	.3331685	.4181341	.5052989
22	.0286084	.0505486	.0815377	.1242562	.1994267	.2467408	.3231154	.4059995
23	.0153987	.0296592	.0494943	.0799526	.1493374	.1747178	.2392589	.3113517
24	.0078653	.0165941	.0285793	.0488005	.0781741	.1181914	.1695600	.2319403
25	.0038166	.0090658	.0157010	.0283838	.0470858	.0763401	.1149098	.1644846
26	.0017601	.0039675	.0082094	.0157344	.0268810	.0470656	.0744860	.1116027
27	.0007718	.0018568	.0040865	.0082996	.0156722	.0276937	.0460550	.0734451
28	.0003220	.0008272	.0019374	.0041747	.0083404	.0155517	.0273220	.0449668
29	.0001279	.0003509	.0008751	.0020018	.0042336	.0083355	.0153698	.0266813
30	.0000484	.0001419	.0003768	.0009153	.0020802	.0042648	.0082887	.0151330
31	.0000174	.0000547	.0001547	.0003992	.0009475	.0020833	.0042700	.0082039
32	.0000060	.0000201	.0000608	.0001641	.0004180	.0009718	.0021016	.0040513

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 86

r	.17	.18	.19	.20	.21	.22	.23	.24
33	.0000080	.0000070	.0000226	.0000660	.0001761	.0004330	.0009863	.0021058
34	.0000006	.0000024	.0000081	.0000250	.0000708	.0001843	.0004441	.0009978
35	.0000002	.0000008	.0000028	.0000091	.0000272	.0000749	.0001908	.0004315
36	.0000001	.0000008	.0000009	.0000031	.0000100	.0000291	.0000783	.0001855
37		.0000001	.0000003	.0000010	.0000035	.0000108	.0000307	.0000800
38			.0000001	.0000003	.0000012	.0000038	.0000115	.0000330
39				.0000001	.0000004	.0000013	.0000041	.0000121
40					.0000001	.0000004	.0000014	.0000044
41						.0000001	.0000005	.0000015
42							.0000001	.0000005
43								.0000002

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999969	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
7	.9999853	.9999937	.9999974	.9999989	.9999996	.9999998	.9999999	1.0000000
8	.9999410	.9999736	.9999884	.9999550	.9999979	.9999992	.9999997	.9999999
9	.9997955	.9999036	.9999557	.9999801	.9999913	.9999963	.9999984	.9999994
10	.9993749	.9996907	.9998508	.9999298	.9999678	.9999856	.9999937	.9999973
11	.9988956	.9991147	.9995521	.9997792	.9998939	.9999503	.9999773	.9999899
12	.9980098	.9977163	.9987887	.9993744	.9996853	.9998458	.9999263	.9999657
13	.9966510	.9964456	.9970240	.9984906	.9991528	.9995658	.9997838	.9998946
14	.9940046	.9945041	.9953086	.9962127	.9979148	.9988827	.9994173	.9997041
15	.9897253	.9912527	.9861433	.9917965	.9952780	.9973564	.9985601	.9992368
16	.9836986	.9882773	.9734224	.9835529	.9901085	.9943165	.9967115	.9981811
17	.8959777	.9286934	.9525440	.9693270	.9807387	.9882450	.9930859	.9959767
18	.8404982	.8858906	.9207469	.9465470	.9649801	.9777078	.9862079	.9917051
19	.7694076	.8282432	.8756648	.9125878	.9403064	.9603950	.9744656	.9839995
20	.6850364	.7557535	.8159886	.8653230	.9042378	.9336410	.9555849	.9710216
21	.5905985	.6704311	.7420474	.8037476	.8548648	.8957170	.9271680	.9508623
22	.4916636	.5762141	.6560961	.7284886	.7915303	.8443653	.8870431	.9203038
23	.3942278	.4784090	.5621706	.6420158	.7159749	.7793444	.8337812	.8788317
24	.3038525	.3827875	.4655039	.5484435	.6301788	.7018087	.7671954	.8231407
25	.2247741	.2945961	.3716512	.4529208	.5380104	.6145682	.6886676	.7550870
26	.1594086	.2177504	.2855038	.3607944	.4406347	.5218505	.6011716	.6756644
27	.1083787	.1544046	.2108610	.2767389	.3501956	.4286833	.5089449	.5879761
28	.0704092	.1049455	.1494614	.2040984	.2681069	.3398356	.4168666	.4962759
29	.0438104	.0683285	.1016094	.1445735	.1974560	.2596548	.3296973	.4053463
30	.0260778	.0425976	.0662120	.0982763	.1397413	.1909884	.2513716	.3197655
31	.0148472	.0254206	.0413369	.0640679	.0949514	.1349654	.1845103	.2432468
32	.0080847	.0145183	.0247168	.0400368	.0619034	.0916393	.1309464	.1781976
33	.0042104	.0079346	.0141514	.0239733	.0387088	.0597880	.0883448	.1255847
34	.0020971	.0041493	.0077569	.0137514	.0231962	.0373435	.0575386	.0850695
35	.0009990	.0020762	.0040701	.0075549	.0133230	.0223911	.0359649	.0553498
36	.0004552	.0009940	.0020442	.0039746	.0073316	.0128705	.0215634	.0348706
37	.0001984	.0004553	.0009827	.0020022	.0038648	.0070901	.0123977	.0217179
38	.0000827	.0001996	.0004521	.0009656	.0019512	.0037823	.0068329	.0131985
39	.0000330	.0000837	.0001991	.0004458	.0009433	.0018925	.0036091	.0076609
40	.0000126	.0000336	.0000839	.0001970	.0004367	.0009164	.0018865	.0042668
41	.0000046	.0000129	.0000338	.0000830	.0001935	.0004350	.0009854	.0023548
42	.0000016	.0000047	.0000130	.0000337	.0000821	.0001887	.0004111	.0012509
43	.0000005	.0000017	.0000048	.0000131	.0000335	.0000802	.0001827	.0006352
44	.0000002	.0000006	.0000017	.0000048	.0000129	.0000326	.0000778	.0003157
45	.0000001	.0000002	.0000006	.0000017	.0000048	.0000127	.0000317	.0001548
46		.0000001	.0000002	.0000006	.0000017	.0000047	.0000123	.0000305
47			.0000001	.0000002	.0000006	.0000017	.0000046	.0000119
48				.0000001	.0000002	.0000006	.0000016	.0000044
49					.0000001	.0000002	.0000006	.0000016
50						.0000001	.0000008	.0000006
51							.0000001	.0000008
52								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999989	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999956	.9999981	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
12	.9999844	.9999931	.9999970	.9999988	.9999995	.9999998	.9999999	1.0000000
13	.9999501	.9999770	.9999896	.9999955	.9999981	.9999992	.9999997	.9999999
14	.9998537	.9999296	.9999670	.9999849	.9999933	.9999971	.9999988	.9999995
15	.9996063	.9998023	.9999034	.9999540	.9999787	.9999904	.9999958	.9999982
16	.9990213	.9994876	.9997389	.9998706	.9999376	.9999707	.9999866	.9999941
17	.9977497	.9987681	.9993460	.9996622	.9998303	.9999171	.9999606	.9999818
18	.9951495	.9973419	.9984748	.9991798	.9995710	.9997818	.9998921	.9999601
19	.9902536	.9942802	.9966766	.9981394	.9989872	.9994639	.9997242	.9998825
20	.9816231	.9886717	.9932113	.9960450	.9977600	.9987667	.9993399	.9996567
21	.9673828	.9790925	.9869604	.9920983	.9953456	.9973351	.9985170	.9991980
22	.9453393	.9635572	.9763819	.9851212	.9908890	.9945774	.9966834	.9980370
23	.9133609	.9399271	.9595524	.9735256	.9831559	.9895837	.9937399	.9963448
24	.8622963	.9060541	.9343364	.9553741	.9705184	.9810670	.9881829	.9928388
25	.8124540	.8602467	.8986945	.9285771	.9510354	.9673648	.9788569	.9866079
26	.7430216	.8011387	.8510989	.8911926	.9226593	.9465374	.9640696	.9765888

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 86$$

x	.33	.34	.38	.36	.37	.38	.39	.40
27	.6627876	.7310000	.7909700	.8418558	.8835576	.9165804	.9418808	.9606376
28	.5749694	.6500313	.7190225	.7801848	.8325266	.8757977	.9103751	.9370958
29	.4838275	.5621397	.6373889	.7070881	.7693743	.8231175	.8679208	.9040853
30	.3940460	.4715848	.5494758	.6248544	.6951954	.7585417	.8136335	.8599313
31	.3100266	.3829508	.4595340	.5369671	.6124212	.6833482	.7476886	.8040788
32	.2352708	.3004683	.3720471	.4476623	.5246034	.6000828	.6715258	.7368156
33	.1719863	.2274369	.2910797	.3613227	.4359590	.5123750	.5878326	.6597432
34	.1209809	.1658733	.2197378	.2818510	.3507662	.4244101	.5002728	.5756643
35	.0818201	.1164358	.1598558	.2121671	.2727733	.3403677	.4130086	.4882881
36	.0531634	.0785900	.1119502	.1539313	.2047195	.2638388	.3301178	.4017440
37	.0331678	.0509840	.0754068	.1075247	.1480981	.1973908	.2550404	.3200080
38	.0198590	.0317605	.0488160	.0722404	.1031604	.1423544	.1901752	.2463720
39	.0114063	.0189909	.0303531	.0466632	.0691287	.0988584	.1366991	.1830708
40	.0062823	.0108944	.0181174	.0289497	.0445295	.0660474	.0946196	.1311313
41	.0033169	.0059937	.0103759	.0172421	.0275540	.0424183	.0630083	.0904455
42	.0016782	.0031612	.0056991	.0098535	.0163685	.0261698	.0403330	.0600137
43	.0008135	.0015977	.0030009	.0054006	.0093300	.0154996	.0248002	.0382768
44	.0003776	.0007736	.0015143	.0028378	.0051002	.0088078	.0146384	.0234485
45	.0001678	.0003587	.0007319	.0014286	.0026724	.0047996	.0082898	.0137876
46	.0000714	.0001592	.0003388	.0006889	.0013417	.0025067	.0045005	.0077764
47	.0000291	.0000676	.0001501	.0003161	.0006450	.0012541	.0023415	.0042046
48	.0000113	.0000275	.0000636	.0001405	.0002969	.0006008	.0011668	.0021780
49	.0000042	.0000107	.0000258	.0000594	.0001307	.0002754	.0005565	.0010808
50	.0000015	.0000040	.0000100	.0000240	.0000550	.0001208	.0002539	.0005127
51	.0000005	.0000014	.0000037	.0000093	.0000221	.0000506	.0001108	.0002327
52	.0000002	.0000005	.0000013	.0000034	.0000085	.0000203	.0000462	.0001009
53	.0000001	.0000002	.0000004	.0000012	.0000031	.0000077	.0000184	.0000418
54			.0000001	.0000004	.0000011	.0000028	.0000070	.0000165
55				.0000001	.0000004	.0000010	.0000025	.0000062
56					.0000001	.0000003	.0000009	.0000022
57						.0000001	.0000003	.0000008
58							.0000001	.0000008
59								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999298	.9999979	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999974	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
17	.9999918	.9999964	.9999985	.9999994	.9999998	.9999999	1.0000000	1.0000000
18	.9999757	.9999890	.9999951	.9999979	.9999991	.9999997	.9999999	.9999999
19	.9999389	.9999663	.9999855	.9999935	.9999972	.9999988	.9999995	.9999998
20	.9998265	.9999148	.9999594	.9999812	.9999915	.9999963	.9999984	.9999994
21	.9995786	.9997849	.9998934	.9999487	.9999760	.9999891	.9999952	.9999980
22	.9990375	.9994893	.9997369	.9998685	.9999368	.9999700	.9999863	.9999939
23	.9979238	.9988549	.9993883	.9996822	.9998398	.9999216	.9999628	.9999838
24	.9957766	.9975886	.9986564	.9992750	.9996203	.9998071	.9999050	.9999547
25	.9918568	.9951604	.9978070	.9984351	.9991491	.9995511	.9997734	.9998868
26	.9850997	.9908104	.9944954	.9967985	.9981928	.9990102	.9994743	.9997893
27	.9740841	.9834800	.9896961	.9937816	.9963571	.9979292	.9988583	.9993897
28	.9570738	.9715873	.9816504	.9885141	.9930195	.9958828	.9976443	.9986931
29	.9321643	.9533809	.9688611	.9797930	.9873655	.9922096	.9953758	.9973381
30	.8975458	.9270997	.9495650	.9660885	.9778497	.9859515	.9913585	.9948366
31	.8510363	.8909405	.9219071	.9456296	.9632125	.9758227	.9845737	.9904493
32	.7944565	.8436399	.8842161	.9165911	.9415786	.9602362	.9737143	.9831335
33	.7289289	.7847691	.8353459	.8773763	.9111559	.9374157	.9571627	.9715867
34	.6479910	.7150098	.7750180	.8269571	.8704848	.9056053	.9331444	.9539948
35	.5635712	.6362654	.7040752	.7659045	.8184768	.8633647	.8999497	.9287679
36	.4764125	.5515472	.6245624	.6931174	.7553283	.8099046	.8561987	.8941709
37	.3906078	.4646381	.5393359	.6128777	.6821341	.7453896	.8012437	.8469888
38	.3100309	.3795919	.4529575	.5276818	.6018070	.6711289	.7353073	.7884937
39	.2378279	.3001794	.3686008	.4411636	.5158269	.5895455	.6600008	.7253800
40	.1760741	.2294033	.2904474	.3578917	.4298497	.5040170	.5778888	.6490048
41	.1256508	.1691825	.2210939	.2808293	.3471944	.4184033	.4988457	.5662310
42	.0863372	.1202864	.1603942	.2128961	.2713201	.3365909	.4070364	.4805071
43	.0570665	.0828964	.1149490	.1557078	.2048069	.2619154	.3260761	.3957833
44	.0362507	.0541689	.0783246	.1097287	.1491214	.1968836	.2526115	.3156481
45	.0221176	.0342636	.0513236	.0744235	.1045961	.1428352	.1889442	.2434050
46	.0189498	.0808104	.0323184	.0485330	.0705949	.0995521	.1368486	.1811673
47	.0078714	.0121273	.0195295	.0304016	.0467996	.0666408	.0945978	.1299617
48	.0055131	.0067761	.0113205	.0188773	.0305340	.0431858	.0631633	.0897347
49	.0030170	.0036276	.0068981	.0105372	.0197563	.0267119	.0405141	.0595648
50	.0009951	.0018595	.0033491	.0058210	.0097736	.0158686	.0249379	.0379670
51	.0004696	.0009120	.0017062	.0030788	.0053642	.0090333	.0147164	.0232148
52	.0002119	.0004377	.0008314	.0015579	.0028177	.0049238	.0083180	.0134016
53	.0000913	.0001916	.0003871	.0007536	.0014183	.0026666	.0044989	.0076894
54	.0000376	.0000780	.0001722	.0003482	.0006798	.0012788	.0023863	.0040986
55	.0000147	.0000335	.0000731	.0001536	.0003118	.0006084	.0011489	.0020976
56	.0000055	.0000130	.0000296	.0000646	.0001360	.0002761	.0005415	.0010861
57	.0000020	.0000048	.0000114	.0000259	.0000566	.0001194	.0002432	.0004786
58	.0000007	.0000017	.0000042	.0000099	.0000234	.0000498	.0001041	.0002186
59	.0000002	.0000006	.0000015	.0000036	.0000095	.0000193	.0000423	.0000899
60	.0000001	.0000002	.0000005	.0000013	.0000038	.0000072	.0000164	.0000361

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 66$$

p	.41	.42	.43	.44	.45	.46	.47	.48
61		.0000001	.0000002	.0000004	.0000010	.0000025	.0000060	.0000138
62				.0000001	.0000003	.0000008	.0000021	.0000050
63					.0000001	.0000003	.0000007	.0000017
64						.0000001	.0000002	.0000005
65							.0000001	.0000002

p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	.9999999	1.0000000
20	.9999997	.9999999
21	.9999992	.9999997
22	.9999974	.9999989
23	.9999924	.9999967
24	.9999790	.9999906
25	.9999453	.9999746
26	.9998650	.9999348
27	.9996839	.9998415
28	.9992974	.9996341
29	.9985148	.9991972
30	.9970109	.9983834
31	.9942656	.9966630
32	.9895009	.9936637
33	.9816327	.9885087
34	.9696684	.9800738
35	.9507354	.9669237
36	.9243891	.9473873
37	.8902927	.9197108
38	.8485565	.8833101
39	.7996548	.8380028
40	.7436858	.7847262
41	.6810896	.7249888
42	.6124680	.6596328
43	.5387957	.5896942
44	.4612706	.5161058
45	.3812936	.4401678
46	.3002931	.3630178
47	.2196918	.2858738
48	.1409752	.2098172
49	.0659646	.1361899
50	.0060468	.0660892
51	.0354869	.0006127
52	.0815431	.0330763
53	.0125260	.0199268
54	.0069688	.0114913
55	.0037050	.0063363
56	.0018809	.0033370
57	.0009107	.0016766
58	.0004201	.0008028
59	.0001844	.0003659
60	.0000769	.0001585
61	.0000305	.0000658
62	.0000114	.0000254
63	.0000041	.0000094
64	.0000014	.0000033
65	.0000004	.0000011
66	.0000001	.0000003
67		.0000001

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 07$$

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.9320721	.8775479	.9293453	.9713188	.9884647	.9954067	.9981886	.9995928
2	.9163183	.9213573	.7398333	.8673495	.9356563	.9620993	.9863260	.9954487
3	.9971051	.9826595	.4864038	.6010711	.8141381	.9047997	.9473353	.9739380
4	.9115390	.9729900	.2648583	.4611391	.6379091	.7739766	.8660411	.9446509
5	.9018735	.9307031	.1209580	.3687361	.4409193	.6035610	.7366470	.8346485
6	.9002588	.9001451	.9470823	.1356435	.2688183	.4837348	.8749470	.7047319
7	.9000299	.9018534	.9158565	.0598547	.1450161	.3666681	.4006145	.8503383
8	.9000029	.9003676	.9046815	.0233136	.0696814	.1510009	.8632484	.3949857
9	.9000003	.9000644	.9019253	.9080888	.0299400	.0770450	.1546990	.8398965
10		.9000101	.9003870	.9025796	.0116076	.0356087	.0086547	.1567850
11		.9000014	.9000603	.9007098	.9040817	.0149780	.0403570	.0060484
12		.9000002	.9000116	.9001880	.9013090	.9057611	.0100783	.0044784
13			.9000020	.9000487	.9003647	.9020346	.9074488	.9008340
14			.9000003	.9000098	.9001041	.9006686	.9088386	.9009786
15				.9000018	.9000260	.9001997	.9010068	.9006667
16				.9000003	.9000060	.9000589	.9003879	.9013790
17				.9000001	.9000013	.9000146	.9001008	.9004839
18					.9000003	.9000035	.9000806	.9001597
19						.9000008	.9000076	.9000488
20						.9000002	.9000019	.9000141
21							.9000005	.9000038
22							.9000001	.9000010
23								.9000002
24								.9000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9997367	.9999956	.9999905	.9999852	.9999945	.9999980	.9999993	.9999997
2	.9973754	.9988854	.9995354	.9998097	.9999234	.9999697	.9999888	.9999958
3	.9873756	.9940592	.9978764	.9990808	.9994663	.9997718	.9999039	.9999604
4	.9593542	.9788658	.9909655	.9966055	.9975311	.9990560	.9994884	.9997711
5	.9011559	.9434144	.9808328	.9934216	.9914564	.9957871	.9979806	.9990140
6	.8056083	.8880863	.9267062	.9576526	.9763956	.9878719	.9933463	.9966900
7	.6754617	.7787333	.8555485	.9096854	.9456349	.9684606	.9883107	.9935888
8	.5866687	.6510709	.7537404	.8338501	.8984479	.9330884	.9697779	.9766587
9	.5024800	.5098238	.6279996	.7305161	.8129730	.8753408	.9200141	.9504898
10	.4255890	.3708790	.4915407	.6068284	.7067319	.7989115	.8884198	.9067468
11	.1576955	.2509803	.3599883	.4758696	.5872372	.6882468	.7736387	.8417568
12	.0899231	.1577857	.2461733	.3496908	.4601564	.5689765	.6609038	.7581038
13	.0474782	.0921080	.1570881	.2418364	.3396923	.4460085	.5518491	.6505691
14	.0238505	.0500356	.0935556	.1559139	.2362163	.3305197	.4386764	.5386964
15	.0105889	.0253300	.0520643	.0944152	.1543311	.2311487	.3215184	.4290423
16	.0044937	.0119706	.0270913	.0536024	.0947838	.1584168	.2260476	.3188387
17	.0017818	.0053909	.0139074	.0288502	.0547434	.0947433	.1508350	.2289388
18	.0006609	.0021912	.0068407	.0148950	.0297554	.0585317	.0945593	.1473356
19	.0002299	.0008518	.0032960	.0073316	.0153349	.0307077	.0560138	.0936850
20	.0000752	.0003113	.0014498	.0034885	.0073854	.0160381	.0314384	.0568878
21	.0000231	.0001072	.0006001	.0015489	.0033582	.0079094	.0166936	.0317693
22	.0000067	.0000346	.0001439	.0006953	.0014458	.0036906	.0085919	.0178873
23	.0000018	.0000107	.0000489	.0002868	.0005888	.0016308	.0039968	.0088033
24	.0000005	.0000031	.0000157	.0000951	.0002270	.0006883	.0018049	.0040687
25	.0000001	.0000008	.0000048	.0000310	.0000830	.0002709	.0007735	.0019354
26		.0000002	.0000014	.0000069	.0000288	.0001081	.0003148	.0008898
27		.0000001	.0000004	.0000021	.0000095	.0000398	.0001317	.0003876
28			.0000001	.0000006	.0000030	.0000154	.0000548	.0001715
29				.0000002	.0000009	.0000060	.0000187	.0000733
30					.0000003	.0000018	.0000059	.0000291
31					.0000001	.0000004	.0000017	.0000065
32						.0000001	.0000005	.0000021
33							.0000001	.0000007
34								.0000002
35								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999963	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999840	.9999956	.9999975	.9999990	.9999996	.9999999	1.0000000	1.0000000
4	.9999010	.9999580	.9999826	.9999929	.9999978	.9999994	.9999996	.9999998
5	.9995439	.9997939	.9999090	.9999607	.9999834	.9999931	.9999978	.9999989
6	.9983297	.9991959	.9996225	.9998270	.9999286	.9999661	.9999855	.9999939
7	.9949312	.9974019	.9987040	.9993702	.9997016	.9998620	.9999377	.9999785
8	.9860764	.9928449	.9962109	.9980487	.9990218	.9995888	.9998785	.9999643
9	.9703788	.9828417	.9903609	.9947449	.9972148	.9990579	.9998790	.9999474
10	.9407183	.9635674	.9783219	.9874949	.9929985	.9961913	.9979888	.9989488
11	.8933329	.9305659	.9562914	.9733575	.9842563	.9909713	.9949708	.9978766
12	.8253949	.8798563	.9201179	.9486170	.9679891	.9806458	.9896479	.9935493
13	.7372665	.8093577	.8663787	.9094445	.9406087	.9648564	.9767448	.9860947
14	.6331296	.7300770	.7936546	.8529458	.8986031	.9383003	.9561964	.9738134
15	.5203893	.6464665	.7034871	.7788867	.8395910	.8876404	.9237545	.9498438
16	.4080113	.5658216	.6005551	.6874515	.7632187	.8063381	.8765944	.9180043
17	.3044339	.4956062	.4919046	.5859619	.6719279	.7485314	.8139039	.8634988
18	.2158316	.4296874	.3854634	.4785640	.5705434	.6560767	.7341831	.8001990
19	.1452581	.3107347	.2883669	.3748299	.4657367	.5563437	.6488615	.7200104
20	.0927643	.2485342	.2056551	.2806502	.3645606	.4533687	.5486141	.6290489
21	.0562084	.0916334	.1396898	.2003975	.2731183	.3546183	.4414136	.5293113
22	.0323201	.0559630	.0903225	.1367459	.1955658	.2647849	.3449497	.4298313
23	.0176418	.0328093	.0558086	.0888573	.1337802	.1905429	.2585439	.3355978
24	.0091455	.0179458	.0325531	.0550229	.0872594	.1306276	.1855908	.2514791
25	.0045049	.0094809	.0181479	.0324666	.0543251	.0865474	.1274793	.1806519
26	.0021097	.0047052	.0096328	.0182562	.0328633	.0535060	.0837372	.1248871
27	.0009398	.0023367	.0048698	.0097846	.0183787	.0319555	.0525803	.0816489
28	.0003985	.0010125	.0023457	.0049997	.0098800	.0180289	.0315548	.0515611
29	.0001609	.0004367	.0010762	.0024363	.0050960	.0099830	.0180960	.0310697
30	.0000619	.0001795	.0004715	.0011326	.0025087	.0051603	.0099174	.0179046
31	.0000227	.0000704	.0001969	.0005024	.0011791	.0025632	.0051943	.0098669

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 07

k/p	.17	.18	.19	.20	.21	.22	.23	.24
32	.0000079	.0000063	.0000785	.0000188	.0000292	.0012161	.0026003	.0051999
33	.0000007	.0000004	.0000008	.0000060	.0000069	.0005515	.0012443	.0026807
34	.0000000	.0000032	.0000108	.0000330	.0000989	.0000390	.0005693	.0012633
35	.0000003	.0000010	.0000038	.0000123	.0000364	.0000990	.0002490	.0005885
36	.0000001	.0000003	.0000012	.0000043	.0000136	.0000398	.0001042	.0002569
37		.0000001	.0000004	.0000015	.0000049	.0000148	.0000417	.0001084
38			.0000001	.0000005	.0000017	.0000054	.0000166	.0000438
39				.0000001	.0000005	.0000019	.0000056	.0000169
40					.0000002	.0000006	.0000020	.0000069
41					.0000001	.0000002	.0000007	.0000022
42						.0000001	.0000008	.0000007
43							.0000001	.0000002
44								.0000001

k/p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999975	.9999990	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000
7	.9999808	.9999950	.9999979	.9999992	.9999997	.9999999	1.0000000	1.0000000
8	.9999321	.9999788	.9999908	.9999961	.9999984	.9999994	.9999997	.9999999
9	.9998319	.9999218	.9999648	.9999843	.9999932	.9999971	.9999988	.9999995
10	.9994801	.9997461	.9998791	.9999419	.9999746	.9999886	.9999953	.9999980
11	.9985654	.9992644	.9996337	.9998013	.9999153	.9999609	.9999804	.9999903
12	.9964312	.9980799	.9989248	.9994877	.9997458	.9998771	.9999421	.9999734
13	.9919857	.9954440	.9975004	.9986660	.9993072	.9996498	.9998976	.9999174
14	.9837618	.9901009	.9943118	.9960225	.9983738	.9990677	.9995308	.9997651
15	.9697958	.9801781	.9880779	.9930330	.9970143	.9978143	.9988350	.9993863
16	.9433303	.9631109	.9768570	.9858611	.9916076	.9951505	.9972845	.9985190
17	.9060830	.9363844	.9581812	.9733103	.9834559	.9900365	.9941685	.9966821
18	.8543681	.8970191	.9293381	.9529254	.9695501	.9808685	.9881215	.9930720
19	.7873302	.8433316	.8878369	.9220964	.9474618	.9655807	.9781057	.9864683
20	.7061798	.7746008	.8321012	.8785572	.9146777	.9418073	.9614379	.9751745
21	.6142080	.6986149	.7620115	.8209807	.8691273	.9071542	.9359778	.9571093
22	.5163974	.6007105	.6792030	.7493611	.8092231	.8597715	.8994818	.9299861
23	.4185867	.5030383	.5875305	.6662209	.7373469	.7988510	.8502924	.8916946
24	.3264443	.4076491	.4916039	.5746441	.6533787	.7250652	.7878370	.8407698
25	.2445437	.3175259	.3969914	.4796673	.5630292	.6407384	.7130118	.7768642
26	.1757455	.2377303	.3088074	.3865898	.4680036	.5496658	.6282954	.7010796
27	.1210597	.1708745	.2310307	.3000744	.3764389	.4565915	.5375358	.6160364
28	.0798766	.1178048	.1660393	.2244377	.2919100	.3664719	.4454109	.5256800
29	.0504601	.0778489	.1145294	.1612404	.2179440	.2837090	.3567190	.4344438
30	.0305110	.0492077	.0759693	.1111395	.1564786	.2115453	.2756523	.3471514
31	.0176549	.0298866	.0480538	.0736463	.1079405	.1517543	.2052378	.2677924
32	.0097753	.0173829	.0293042	.0466750	.0714873	.1046391	.1470688	.1990131
33	.0051780	.0096463	.0170040	.0284709	.0454310	.0692993	.1013339	.1434208
34	.0026254	.0051335	.0094834	.0166136	.0276931	.0440579	.0670883	.0980346
35	.0012735	.0026152	.0050655	.0092899	.0161868	.0268768	.0436523	.0648608
36	.0005911	.0013753	.0025918	.0049771	.0090621	.0157267	.0260877	.0412800
37	.0002686	.0006954	.0012693	.0025545	.0048702	.0088248	.0152381	.0851508
38	.0001116	.0003460	.0005954	.0012559	.0025061	.0047466	.0085580	.0147878
39	.0000454	.0001138	.0002674	.0005914	.0013356	.0024477	.0046085	.0082735
40	.0000177	.0000466	.0001150	.0002667	.0005836	.0013098	.0023791	.0044575
41	.0000066	.0000183	.0000473	.0001152	.0002640	.0005724	.0011771	.0023026
42	.0000023	.0000069	.0000187	.0000476	.0001144	.0003596	.0005581	.0011401
43	.0000008	.0000023	.0000070	.0000189	.0000475	.0001138	.0003535	.0005410
44	.0000003	.0000008	.0000025	.0000071	.0000189	.0000469	.0001103	.0002459
45	.0000001	.0000003	.0000009	.0000026	.0000073	.0000187	.0000460	.0001071
46		.0000001	.0000003	.0000009	.0000026	.0000071	.0000183	.0000446
47			.0000001	.0000003	.0000009	.0000026	.0000070	.0000178
48				.0000001	.0000003	.0000009	.0000026	.0000068
49					.0000001	.0000003	.0000009	.0000025
50						.0000001	.0000003	.0000009
51							.0000001	.0000003
52								.0000001

k/p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999967	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
12	.9999881	.9999948	.9999978	.9999991	.9999996	.9999999	.9999999	1.0000000
13	.9999614	.9999833	.9999928	.9999966	.9999984	.9999994	.9999998	.9999999
14	.9998855	.9999457	.9999749	.9999887	.9999951	.9999979	.9999991	.9999996
15	.9996879	.9998456	.9999256	.9999651	.9999841	.9999930	.9999970	.9999987
16	.9992143	.9994946	.9997965	.9999006	.9999528	.9999783	.9999903	.9999957
17	.9981646	.9990127	.9994835	.9997378	.9998700	.9999375	.9999707	.9999867
18	.9960053	.9977608	.9987707	.9993535	.9996669	.9998333	.9999188	.9999616
19	.9918699	.9952528	.9973060	.9985139	.9993032	.9995847	.9997896	.9998965
20	.9844711	.9908609	.9944242	.9967990	.9982140	.9990316	.9994898	.9997388
21	.9730821	.9823428	.9891488	.9935191	.9963389	.9978791	.9988379	.9993815
22	.9561136	.9688358	.9800843	.9876329	.9925379	.9956253	.9975083	.9990814
23	.9328468	.9479613	.9654287	.9777000	.9860172	.9914813	.9949581	.9971013
24	.8838046	.9175709	.9431680	.9619099	.9751943	.9843033	.9903501	.9948373

N	.33	.34	.35	.36	.37	.38	.39	.40
33	.8310190	.8759225	.9111698	.9382847	.9582441	.9725716	.9824940	.9891458
34	.7659341	.8216855	.8677574	.9046510	.9331570	.9544518	.9699367	.9805921
35	.6898640	.7550478	.8130156	.8596170	.8980248	.9279691	.9505394	.9666938
36	.6039494	.6778606	.7448044	.8023864	.8514080	.8915989	.9186655	.9405135
37	.5139044	.5980388	.6659607	.7334089	.7927406	.8411360	.8844776	.9178535
38	.4236739	.5183735	.5888454	.6544506	.7226416	.7830805	.8348053	.8775689
31	.3377530	.4430864	.4910136	.5666066	.6430477	.7119180	.7734071	.8264198
32	.2599402	.3805134	.4086675	.4798100	.5570960	.6317815	.7010293	.7637809
33	.1928708	.3322676	.3194103	.3984049	.4687868	.5487040	.6304730	.6905728
34	.1378127	.2960049	.2447025	.3104608	.3808972	.4678368	.5544818	.6098250
35	.0947438	.2332446	.1808145	.2379533	.3016307	.3783038	.4770416	.5238385
36	.0626201	.0914629	.1287171	.1748960	.2296994	.2990128	.4064452	.4363617
37	.0397644	.0603728	.0881970	.1243311	.1690480	.2284407	.3343806	.3597084
38	.0244809	.0388965	.0581227	.0840485	.1192024	.1656800	.2654736	.2874364
39	.0141957	.0233383	.0368131	.0550742	.0817264	.1153069	.1975540	.2203018
40	.0079733	.0136478	.0223969	.0353805	.0533113	.0781156	.1410106	.1619071
41	.0042955	.0076599	.0130054	.0214560	.0330349	.0511974	.0952367	.1067190
42	.0022190	.0041248	.0073360	.0125134	.0195078	.0321448	.0691764	.0781864
43	.0010908	.0021293	.0039453	.0070037	.0110343	.0195841	.0500580	.0569716
44	.0005214	.0010538	.0020346	.0037608	.0060658	.0113507	.0386015	.0403728
45	.0002371	.0004998	.0010058	.0019350	.0033207	.0063227	.0307654	.0276530
46	.0001032	.0002271	.0004764	.0009558	.0018140	.0033780	.0259781	.0181809
47	.0000430	.0000946	.0002161	.0004516	.0009028	.0017301	.0231835	.0156133
48	.0000173	.0000411	.0000930	.0002044	.0004357	.0008490	.0216849	.0089885
49	.0000066	.0000164	.0000390	.0000806	.0001988	.0003990	.0207945	.0045193
50	.0000024	.0000061	.0000155	.0000367	.0000810	.0001795	.0203719	.0027397
51	.0000008	.0000003	.0000059	.0000146	.0000343	.0000773	.0001666	.0003447
52	.0000003	.0000008	.0000021	.0000055	.0000136	.0000316	.0000714	.0001536
53	.0000001	.0000003	.0000007	.0000020	.0000051	.0000125	.0000298	.0000655
54		.0000001	.0000002	.0000007	.0000018	.0000047	.0000114	.0000267
55			.0000001	.0000002	.0000006	.0000017	.0000043	.0000104
56				.0000001	.0000002	.0000006	.0000015	.0000038
57					.0000001	.0000002	.0000005	.0000014
58						.0000001	.0000002	.0000005
59							.0000001	.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999983	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999941	.9999975	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000
18	.9999833	.9999921	.9999966	.9999986	.9999994	.9999998	.9999999	1.0000000
19	.9999505	.9999770	.9999896	.9999955	.9999981	.9999992	.9999997	.9999999
20	.9998701	.9999373	.9999706	.9999868	.9999941	.9999975	.9999990	.9999996
21	.9996803	.9998395	.9999218	.9999630	.9999830	.9999924	.9999967	.9999986
22	.9991593	.9996135	.9998048	.9999030	.9999541	.9999765	.9999859	.9999939
23	.9983015	.9991235	.9995302	.9997643	.9998838	.9999439	.9999739	.9999882
24	.9966578	.9981178	.9989711	.9994542	.9997191	.9998598	.9999388	.9999668
25	.9934635	.9961777	.9978302	.9988046	.9993611	.9996689	.9998337	.9999190
26	.9878698	.9926394	.9956614	.9975186	.9986231	.9992590	.9996135	.9998044
27	.9786005	.9853239	.9917598	.9951091	.9971839	.9984365	.9991370	.9995537
28	.9640476	.9765223	.9851100	.9911318	.9945214	.9968341	.9983140	.9990275
29	.9423769	.9610034	.9743605	.9836303	.9898548	.9938993	.9964480	.9979805
30	.9117391	.9361378	.9578623	.9721185	.9820068	.9888307	.9930435	.9960173
31	.8705770	.9061274	.9338000	.9546315	.9697992	.9804820	.9877597	.9935550
32	.8179802	.8635062	.9004333	.9293680	.9513110	.9674060	.9801102	.9896451
33	.7540217	.8094948	.8563601	.8946308	.9248461	.9479131	.9694410	.9837980
34	.6799431	.7443687	.8009586	.8491416	.8887530	.9202381	.9544330	.9749101
35	.5981833	.6693381	.7345806	.7923756	.8418530	.8809954	.9355475	.9608768
36	.5121476	.5871289	.6587539	.7248356	.7837448	.8314961	.8767584	.9410775
37	.4257877	.5011399	.5761358	.6468178	.7150715	.7750665	.8070785	.9070450
38	.3430674	.4153113	.4902077	.5651677	.6376242	.7052856	.7663398	.8195026
39	.2674311	.3353326	.4049243	.4793414	.5543479	.6370711	.6954746	.7575634
40	.2013931	.2591892	.3240912	.3946194	.4685394	.5633601	.6165189	.6814388
41	.1463842	.1944752	.2509159	.3147367	.3843893	.4877008	.5384978	.6059623
42	.1024557	.1408054	.1876351	.2427867	.3034635	.3743274	.4470648	.5316546
43	.0690675	.0982396	.1353504	.1806705	.2347378	.2968661	.3641074	.4564806
44	.0447863	.0659835	.0940731	.1299594	.1771799	.2367658	.2871398	.3540856
45	.0279130	.0426235	.0629340	.0899578	.1296305	.1875619	.2180670	.2708808
46	.0167086	.0264608	.0404873	.0599243	.0919954	.1397701	.1610155	.2110414
47	.0095996	.0157743	.0250261	.0383794	.0569575	.0988880	.1141737	.1545404
48	.0052900	.0090236	.0148515	.0236130	.0340335	.0670347	.0779375	.1090437
49	.0027944	.0049499	.0084551	.0139429	.0233812	.0442693	.0511592	.0740468
50	.0014141	.0026021	.0046146	.0078961	.0130508	.0280865	.0330587	.0483338
51	.0006851	.0013099	.0024126	.0042853	.0073484	.0151775	.0195305	.0303956
52	.0003176	.0006311	.0012075	.0022271	.0039436	.0080138	.0113559	.0181156
53	.0001407	.0002908	.0005781	.0011035	.0020463	.0041636	.0062935	.0104989
54	.0000596	.0001280	.0002646	.0005266	.0010104	.0020712	.0033475	.0057902
55	.0000241	.0000538	.0001157	.0002392	.0004768	.0009868	.0017023	.0030553
56	.0000093	.0000216	.0000483	.0001037	.0002148	.0004390	.0008970	.0015404
57	.0000034	.0000083	.0000193	.0000399	.0000823	.0001915	.0003834	.0007414

$$\text{Incomplete } \Gamma = \sum_{i=0}^{n} \frac{(np)^i e^{-np}}{i!} \qquad n = 17$$

x	.41	.43	.43	.44	.45	.46	.47	.48
58	.0000012	.0000030	.0000073	.0000169	.0000378	.0000815	.0001695	.0003403
59	.0000004	.0000010	.0000026	.0000063	.0000147	.0000330	.0000713	.0001480
60	.0000001	.0000003	.0000009	.0000023	.0000055	.0000127	.0000286	.0000619
61		.0000001	.0000003	.0000008	.0000019	.0000047	.0000109	.0000245
62			.0000001	.0000002	.0000006	.0000016	.0000039	.0000092
63				.0000001	.0000002	.0000005	.0000013	.0000033
64					.0000001	.0000002	.0000004	.0000011
65							.0000001	.0000004
66								.0000001

x	.49	.50
1	1.[illegible]000	1.0000000
2	1.[illegible]000	1.0000000
3	1.[illegible]000	1.0000000
4	1.[illegible]000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	.9999998	.9999999
21	.9999994	.9999998
22	.9999983	.9999993
23	.9999949	.9999978
24	.9999856	.9999937
25	.9999618	.9999826
26	.9999044	.9999547
27	.9997727	.9998882
28	.9994868	.9997378
29	.9988982	.9994159
30	.9977478	.9987603
31	.9956108	.9974932
32	.9918356	.9951634
33	.9854081	.9910862
34	.9753238	.9843909
35	.9598136	.9734584
36	.9378478	.9571555
37	.9059309	.9335491
38	.8644572	.9010134
39	.8120266	.8581964
40	.7487356	.8044745
41	.6757647	.7398542
42	.5953956	.6650575
43	.5108241	.5848135
44	.4257899	.5000000
45	.3440903	.4151865
46	.2690834	.3341425
47	.2032844	.2601458
48	.1481363	.1955965
49	.1039818	.1418036
50	.0702165	.0989096
51	.0455613	.0664509
52	.0283756	.0428445
53	.0169444	.0265016
54	.0096915	.0157091
55	.0053040	.0089138
56	.0027747	.0048366
57	.0013861	.0025068
58	.0006605	.0012397
59	.0002999	.0005841
60	.0001296	.0002622
61	.0000534	.0001113
62	.0000208	.0000451
63	.0000075	.0000174
64	.0000027	.0000063
65	.0000009	.0000022
66	.0000003	.0000007
67	.0000001	.0000002
68		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.5870503	.8309969	.9314650	.9724661	.9890434	.9956823	.9983154	.9993494
2	.2199840	.5274811	.7449366	.8715082	.9389968	.9714298	.9871571	.9943707
3	.0586972	.2580335	.4939887	.6885222	.8221140	.9040903	.9506227	.9755383
4	.0119947	.1003974	.2714988	.4699555	.6466206	.7808733	.8717923	.9285939
5	.0019701	.0320348	.1252748	.2764330	.4507687	.6137440	.7457060	.8418467
6	.0002690	.0085963	.0492986	.1409672	.2774176	.4345244	.5862679	.7151252
7	.0000313	.0019792	.0167933	.0628862	.1512059	.2762773	.4202579	.5626898
8	.0000032	.0003973	.0050167	.0247753	.0733911	.1579528	.2738835	.4074139
9	.0000003	.0000704	.0013290	.0086972	.0319240	.0814824	.1623320	.2707037
10		.0000111	.0003151	.0027424	.0125242	.0380949	.0876978	.1650339
11		.0000016	.0000674	.0007822	.0044580	.0162166	.0433186	.0924434
12		.0000002	.0000131	.0002031	.0014476	.0063142	.0196323	.0476840
13			.0000023	.0000483	.0004310	.0022584	.0081924	.0227095
14			.0000004	.0000105	.0001181	.0007450	.0031585	.0100135
15			.0000001	.0000021	.0000299	.0002275	.0011287	.0040992
16				.0000004	.0000070	.0000645	.0003750	.0015621
17				.0000001	.0000015	.0000170	.0001161	.0005555
18					.0000003	.0000042	.0000336	.0001848
19					.0000001	.0000010	.0000091	.0000576
20						.0000002	.0000023	.0000169
21							.0000006	.0000046
22							.0000001	.0000012
23								.0000003
24								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9997513	.9999060	.9999648	.9999870	.9999952	.9999983	.9999994	.9999998
2	.9975870	.9989864	.9995822	.9998308	.9999326	.9999736	.9999898	.9999961
3	.9882755	.9945418	.9975249	.9989043	.9995257	.9997990	.9999168	.9999660
4	.9618761	.9803851	.9902357	.9952825	.9977826	.9989841	.9995456	.9998014
5	.9063937	.9469596	.9710914	.9847877	.9922479	.9961651	.9981548	.9991351
6	.8142076	.8845652	.9313401	.9607448	.9783537	.9884556	.9940316	.9970031
7	.6880849	.7886626	.8633758	.9153913	.9496338	.9710942	.9839659	.9913853
8	.5419646	.6638372	.7649748	.8429435	.8993622	.9379863	.9631578	.9788503
9	.3956437	.5234085	.6418354	.7429162	.8233047	.8834161	.9259787	.9546758
10	.2670099	.3847135	.5065512	.6216709	.7222832	.8044515	.8676585	.9137454
11	.1665059	.2629701	.3744591	.4910567	.6030315	.7028994	.7863533	.8521549
12	.0960226	.1670511	.2586929	.3647603	.4766769	.5856743	.6846130	.7689678
13	.0512928	.0986644	.1668821	.2542509	.3555267	.4632240	.5694078	.6672946
14	.0254304	.0542423	.1005435	.1661526	.2496942	.3466882	.4505523	.5540760
15	.0117278	.0278005	.0566194	.1017950	.1649761	.2450581	.3381895	.4385469
16	.0050423	.0133065	.0298373	.0584999	.1025250	.1634388	.2403678	.3299863
17	.0020254	.0059589	.0147347	.0315635	.0599487	.1028176	.1616069	.2356419
18	.0007617	.0025012	.0068290	.0160066	.0330039	.0610213	.1027406	.1595321
19	.0002687	.0009857	.0029749	.0076389	.0171226	.0341831	.0617651	.1023491
20	.0000891	.0003654	.0012199	.0034350	.0083797	.0180807	.0351246	.0622207
21	.0000278	.0001276	.0004716	.0014573	.0038726	.0090466	.0189053	.0358506
22	.0000083	.0000420	.0001721	.0005840	.0016919	.0043812	.0096371	.0193860
23	.0000023	.0000131	.0000594	.0002213	.0006995	.0019187	.0046561	.0101518
24	.0000006	.0000039	.0000194	.0000794	.0002739	.0008151	.0021337	.0049942
25	.0000001	.0000011	.0000060	.0000270	.0001017	.0003285	.0009282	.0023339
26		.0000003	.0000018	.0000087	.0000359	.0001357	.0003836	.0010367
27		.0000001	.0000005	.0000027	.0000120	.0000457	.0001507	.0004380
28			.0000001	.0000008	.0000038	.0000158	.0000563	.0001761
29				.0000002	.0000012	.0000052	.0000200	.0000674
30				.0000001	.0000003	.0000016	.0000068	.0000246
31					.0000001	.0000005	.0000022	.0000086
32						.0000001	.0000007	.0000028
33							.0000002	.0000009
34							.0000001	.0000003
35								.0000001

N	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999864	.9999947	.9999979	.9999992	.9999997	.9999999	1.0000000	1.0000000
4	.9999151	.9999644	.9999854	.9999941	.9999977	.9999991	.9999997	.9999999
5	.9996046	.9998835	.9999230	.9999671	.9999863	.9999948	.9999978	.9999991
6	.9985361	.9993036	.9996769	.9998537	.9999353	.9999781	.9999888	.9999951
7	.9955089	.9977248	.9988785	.9994615	.9997480	.9998849	.9999487	.9999777
8	.9882457	.9936651	.9966846	.9983130	.9991645	.9995970	.9998105	.9999131
9	.9731834	.9846423	.9914740	.9954056	.9975943	.9987747	.9993925	.9997066
10	.9457605	.9670368	.9806097	.9889449	.9938839	.9967133	.9982888	.9991871
11	.9013884	.9368862	.9604772	.9761850	.9860981	.9921198	.9956641	.9976813
12	.8369444	.8889841	.9269909	.9538651	.9714052	.9829330	.9901176	.9944439
13	.7582484	.8220474	.8765891	.9178790	.9463539	.9663064	.9794867	.9878838
14	.6808389	.7361475	.8074722	.8648455	.9074230	.9388906	.9609824	.9757789
15	.5998858	.6351388	.7206189	.7932185	.8519835	.8974686	.9318161	.9558845
16	.4871155	.5287413	.6201122	.7056186	.7798806	.8398847	.8874418	.9233680
17	.3880490	.4161830	.5125488	.6056999	.6911052	.7656489	.8277837	.8773726
18	.2930940	.3143268	.4086873	.4990016	.5918341	.6770407	.7583116	.8158708
19	.1878556	.2061348	.3068153	.3955747	.4877461	.5784610	.6631807	.7398557
20	.1016888	.1248103	.2213703	.2994868	.3888077	.4760238	.5655150	.6501197
21	.0684289	.1007958	.1488218	.2146081	.2983218	.3763431	.4646897	.5530083
22	.0363611	.0484017	.0997083	.1496163	.2211819	.2883049	.3671318	.4637068
23	.0201378	.0267349	.0681831	.0984350	.1467078	.2071081	.2874854	.3828058
24	.0105899	.0135673	.0369287	.0617898	.0970161	.1438130	.2083705	.3116650
25	.0052938	.0109854	.0208849	.0368779	.0618415	.0954649	.1408450	.1944499
26	.0025169	.0058840	.0118506	.0210983	.0388963	.0635881	.0937979	.1378145
27	.0011387	.0026610	.0057748	.0114789	.0218155	.0366968	.0597464	.0920896
28	.0004908	.0011389	.0028253	.0059867	.0116438	.0218441	.0363908	.0588888
29	.0003013	.0005403	.0011180	.0029490	.0061007	.0117490	.0211914	.0359876
30	.0000787	.0003858	.0005868	.0013933	.0030581	.0062081	.0117985	.0210649
31	.0000294	.0000900	.0002491	.0006885	.0014884	.0031346	.0060806	.0117959

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 80

x	.17	.18	.19	.20	.21	.22	.23	.24
32	.0000105	.0000342	.0001010	.0002707	.0006657	.0015126	.0031969	.0063200
33	.0000036	.0000124	.0000391	.0001114	.0002903	.0006978	.0015562	.0032397
34	.0000012	.0000043	.0000145	.0000438	.0001210	.0003078	.0007343	.0016891
35	.0000004	.0000014	.0000051	.0000165	.0000488	.0001298	.0003329	.0007459
36	.0000001	.0000005	.0000017	.0000059	.0000181	.0000524	.0001375	.0003350
37		.0000001	.0000006	.0000020	.0000067	.0000202	.0000561	.0001440
38			.0000002	.0000007	.0000023	.0000075	.0000219	.0000593
39			.0000001	.0000002	.0000008	.0000025	.0000082	.0000234
40				.0000001	.0000002	.0000009	.0000029	.0000088
41					.0000001	.0000003	.0000010	.0000033
42						.0000001	.0000003	.0000011
43							.0000001	.0000004
44								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999980	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999905	.9999961	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000
8	.9999611	.9999830	.9999928	.9999970	.9999988	.9999995	.9999998	.9999999
9	.9998619	.9999366	.9999716	.9999876	.9999947	.9999978	.9999991	.9999996
10	.9995680	.9997918	.9999022	.9999552	.9999800	.9999913	.9999963	.9999985
11	.9987941	.9993897	.9996992	.9998557	.9999325	.9999692	.9999863	.9999941
12	.9969648	.9983879	.9991670	.9995811	.9997949	.9999022	.9999546	.9999795
13	.9930521	.9961293	.9979039	.9988961	.9994344	.9997180	.9998631	.9999353
14	.9854273	.9914901	.9951727	.9973387	.9985735	.9992563	.9996228	.9998138
15	.9718117	.9827580	.9897611	.9940941	.9966897	.9981953	.9990444	.9995075
16	.9494215	.9676224	.9798867	.9878693	.9928938	.9959562	.9977623	.9987965
17	.9153698	.9433593	.9632236	.9768245	.9858199	.9915731	.9951244	.9972699
18	.8673958	.9072541	.9371214	.9586332	.9735828	.9836189	.9901340	.9944272
19	.8040897	.8572163	.8990406	.9307235	.9538674	.9701726	.9812726	.9885794
20	.7264669	.7924448	.8471498	.8907482	.9241993	.9489416	.9666049	.9787875
21	.6372068	.7139313	.7809357	.8371079	.8823923	.9175501	.9438700	.9628901
22	.5408500	.6246657	.7016343	.7695608	.8270984	.8739863	.9107954	.9386655
23	.4430394	.5290251	.6123091	.6895619	.7583172	.8171271	.8655411	.9039479
24	.3494814	.4326583	.5175041	.6002878	.6777005	.7472009	.8071983	.8570657
25	.2650193	.3409579	.4225368	.5062607	.5885206	.6660366	.7362072	.7973140
26	.1929450	.2584771	.3326171	.4126514	.4952711	.5769877	.6545573	.7253307
27	.1347311	.1882570	.2520504	.3244427	.4005513	.4845138	.5651708	.6432602
28	.0901724	.1316030	.1835870	.2456720	.3164206	.3935078	.4739694	.5546535
29	.0578142	.0882374	.1284371	.1789357	.2393954	.3085379	.3842140	.4636202
30	.0354963	.0567136	.0862345	.1252398	.1743033	.2331951	.3007802	.3750850
31	.0208689	.0349309	.0555365	.0841724	.1220165	.1696915	.2270659	.2931465
32	.0117452	.0206117	.0342934	.0542918	.0820587	.1187723	.1651006	.2210033
33	.0063280	.0116500	.0202981	.0335932	.0539873	.0799006	.1155115	.1605303
34	.0033638	.0063068	.0115140	.0199336	.0343171	.0516303	.0777045	.1132382
35	.0016115	.0032700	.0062584	.0113405	.0195232	.0320312	.0502375	.0754760
36	.0007617	.0016837	.0032593	.0061847	.0111331	.0190717	.0311813	.0487848
37	.0003447	.0007722	.0016262	.0032328	.0060879	.0108949	.0185835	.0302929
38	.0001494	.0003517	.0007773	.0016195	.0031917	.0059699	.0106291	.0180629
39	.0000620	.0001534	.0003559	.0007774	.0016041	.0031371	.0058328	.0103588
40	.0000246	.0000641	.0001561	.0003576	.0007727	.0015806	.0030702	.0056786
41	.0000094	.0000256	.0000656	.0001576	.0003567	.0007634	.0015497	.0029928
42	.0000034	.0000098	.0000264	.0000665	.0001578	.0003534	.0007500	.0015121
43	.0000012	.0000036	.0000102	.0000269	.0000669	.0001568	.0003479	.0007327
44	.0000004	.0000013	.0000038	.0000104	.0000272	.0000667	.0001547	.0003404
45	.0000001	.0000004	.0000013	.0000039	.0000106	.0000271	.0000659	.0001515
46		.0000001	.0000004	.0000014	.0000039	.0000106	.0000269	.0000646
47			.0000001	.0000005	.0000014	.0000040	.0000105	.0000264
48				.0000002	.0000005	.0000014	.0000039	.0000103
49					.0000002	.0000005	.0000014	.0000039
50						.0000002	.0000005	.0000014
51							.0000002	.0000005
52								.0000002

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999975	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
12	.9999909	.9999961	.9999984	.9999993	.9999997	.9999999	1.0000000	1.0000000
13	.9999702	.9999867	.9999942	.9999975	.9999990	.9999996	.9999998	.9999999
14	.9999106	.9999582	.9999810	.9999916	.9999964	.9999985	.9999994	.9999998
15	.9997531	.9998796	.9999429	.9999736	.9999883	.9999948	.9999978	.9999991
16	.9993706	.9996799	.9998417	.9999238	.9999644	.9999838	.9999928	.9999969
17	.9985110	.9992105	.9995931	.9997961	.9999006	.9999529	.9999783	.9999903
18	.9967179	.9981865	.9990261	.9994916	.9997421	.9998728	.9999391	.9999716
19	.9932341	.9961056	.9978818	.9988112	.9993748	.9996791	.9998400	.9999228
20	.9869125	.9921561	.9954328	.9974164	.9985800	.9992418	.9996067	.9998019
21	.9761705	.9851370	.9909948	.9946999	.9969697	.9983170	.9990522	.9995844
22	.9590382	.9734282	.9832567	.9897520	.9939073	.9964599	.9980269	.9991254

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 88

x	.33	.34	.35	.36	.37	.38	.39	.40
23	.9333398	.9550586	.9705673	.9812759	.9884299	.9930560	.9959527	.9977094
24	.8970185	.9279037	.9509603	.9675243	.9791987	.9870309	.9921478	.9953829
25	.8485675	.8900170	.9223667	.9467514	.9645157	.9770297	.9855579	.9911824
26	.7874759	.8400525	.8829515	.9167376	.9424398	.9613374	.9747730	.9840136
27	.7145657	.7776842	.8315252	.8758493	.9110241	.9380325	.9580653	.9724331
28	.6321035	.7039062	.7679383	.8229894	.8686563	.9052331	.9335363	.9547051
29	.5436192	.6211057	.6933460	.7583170	.8144476	.8614376	.8993709	.9289571
30	.4534500	.5328543	.6102458	.6828785	.7480752	.8059016	.8541775	.8934427
31	.3661069	.4434440	.5282448	.5995133	.6724974	.7389597	.7973524	.8468794
32	.2856184	.3573675	.4438867	.5117781	.5880981	.6621961	.7293786	.7888004
33	.2150033	.2781908	.3688555	.4238715	.5014423	.5783906	.6519679	.7198317
34	.1559817	.2090623	.2708563	.3399607	.4142809	.4912263	.5679814	.6417054
35	.1089561	.1514551	.2031770	.2636080	.3314736	.4048063	.4811197	.5576615
36	.0732207	.1056686	.1469512	.1973448	.2564400	.3230857	.3954378	.4711124
37	.0473081	.0709434	.1023790	.1424705	.1915630	.2493467	.3147892	.3861661
38	.0293710	.0458024	.0686487	.0990902	.1380138	.1858296	.2423233	.3065768
39	.0175139	.0284203	.0443728	.0663410	.0958052	.1335817	.1801427	.2353653
40	.0100267	.0169402	.0274452	.0427237	.0640242	.0925267	.1291751	.1745008
41	.0055092	.0096956	.0163455	.0264499	.0411596	.0617023	.0892573	.1247947
42	.0029042	.0053264	.0093483	.0157331	.0254384	.0395844	.0593789	.0859998
43	.0014685	.0028076	.0051320	.0089872	.0151062	.0244145	.0380022	.0570575
44	.0007120	.0014195	.0027033	.0049279	.0086148	.0144681	.0233815	.0364165
45	.0003309	.0006882	.0013658	.0025926	.0047157	.0082333	.0138215	.0223431
46	.0001474	.0003198	.0006617	.0013082	.0024766	.0044970	.0078452	.0131693
47	.0000629	.0001424	.0003072	.0006329	.0012473	.0023563	.0042734	.0074524
48	.0000257	.0000607	.0001367	.0002934	.0006022	.0011838	.0022328	.0040465
49	.0000101	.0000248	.0000582	.0001303	.0002766	.0005700	.0011184	.0021070
50	.0000038	.0000097	.0000238	.0000554	.0001234	.0002629	.0005367	.0010516
51	.0000013	.0000036	.0000093	.0000226	.0000523	.0001161	.0002467	.0005027
52	.0000005	.0000013	.0000035	.0000088	.0000212	.0000491	.0001065	.0002301
53	.0000002	.0000004	.0000012	.0000033	.0000082	.0000196	.0000457	.0001007
54		.0000001	.0000004	.0000012	.0000031	.0000077	.0000184	.0000422
55			.0000001	.0000004	.0000011	.0000028	.0000071	.0000169
56				.0000001	.0000004	.0000010	.0000026	.0000064
57					.0000001	.0000003	.0000009	.0000024
58						.0000001	.0000003	.0000008
59							.0000001	.0000003
60								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999958	.9999982	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
18	.9999872	.9999944	.9999976	.9999990	.9999996	.9999998	.9999999	1.0000000
19	.9999635	.9999833	.9999926	.9999969	.9999987	.9999995	.9999998	.9999999
20	.9999031	.9999540	.9999788	.9999905	.9999959	.9999983	.9999993	.9999997
21	.9997581	.9998805	.9999428	.9999734	.9999880	.9999948	.9999978	.9999991
22	.9994318	.9997084	.9998548	.9999298	.9999671	.9999851	.9999934	.9999972
23	.9987414	.9993287	.9996526	.9998256	.9999151	.9999599	.9999817	.9999919
24	.9973645	.9985398	.9992149	.9995906	.9997929	.9998985	.9999518	.9999778
25	.9947732	.9969986	.9983200	.9990904	.9995282	.9997552	.9998800	.9999426
26	.9901633	.9941243	.9965940	.9980845	.9989592	.9994476	.9997169	.9998595
27	.9824009	.9890916	.9934374	.9961693	.9976311	.9988094	.9993667	.9996736
28	.9700143	.9807230	.9879694	.9927138	.9957192	.9975612	.9986533	.9992796
29	.9512619	.9675201	.9789828	.9867989	.9919540	.9952447	.9972752	.9984872
30	.9243006	.9477409	.9649565	.9771837	.9858824	.9911620	.9947468	.9969739
31	.8874534	.9195718	.9441468	.9623257	.9753286	.9843222	.9903371	.9942266
32	.8395461	.8814071	.9147752	.9404839	.9596323	.9734209	.9830207	.9894819
33	.7802455	.8321796	.8753072	.9099152	.9367566	.9560799	.9714638	.9816806
34	.7103153	.7716869	.8247814	.8691568	.9049953	.9329686	.9540722	.9694603
35	.6317048	.7008257	.7631233	.8173525	.8629584	.9000190	.9291237	.9513128
36	.5474222	.6216567	.6913588	.7546532	.8098935	.8567139	.8949893	.9252851
37	.4611 955	.5372853	.6116555	.6811903	.7459745	.8024642	.8504249	.8899086
38	.3765827	.4513593	.5271525	.6016945	.6724755	.7373848	.7948842	.8440926
39	.2984450	.3678797	.4415962	.5171061	.5917672	.6630498	.7287813	.7873326
40	.2284687	.2903787	.3588494	.4318979	.5071082	.5818672	.6536282	.7201610
41	.1689024	.2216299	.2823813	.3498851	.4222568	.4971516	.5719877	.6442055
42	.1204418	.1633467	.2148458	.2744447	.3469801	.4126656	.4872389	.5621222
43	.0827566	.1161172	.1570328	.2081137	.2665644	.3321283	.4031174	.4773339
44	.0547416	.0795305	.1118224	.1523603	.2014310	.2587360	.3233240	.3935053
45	.0348311	.0524345	.0763238	.1075585	.1469288	.1947957	.2509557	.3145618
46	.0213024	.0332493	.0501393	.0731393	.1033271	.1415384	.1883061	.2438900
47	.0125143	.0202626	.0316744	.0478554	.0699796	.0991299	.1361693	.1816609
48	.0070569	.0118549	.0198266	.0301097	.0455978	.0668472	.0949685	.1308821
49	.0038176	.0066609	.0112056	.0181973	.0285583	.0433576	.0637450	.0908250
50	.0019800	.0035882	.0062660	.0105567	.0171775	.0270232	.0411420	.0606758
51	.0009840	.0018526	.0033595	.0058741	.0099145	.0161699	.0255175	.0389539
52	.0004682	.0009162	.0017257	.0031327	.0054868	.0092811	.0151170	.0240140
53	.0002132	.0004337	.0008488	.0016001	.0029 91	.0051057	.0086586	.0148014
54	.0000929	.0001964	.0003994	.0007822	.0014765	.0026897	.0047323	.0088489
55	.0000387	.0000850	.0001797	.0003657	.0007169	.0013558	.0024755	.0043690

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 88$$

x	.41	.42	.43	.44	.45	.46	.47	.48
56	.0000154	.0000351	.0000772	.0001633	.0003387	.0006533	.0012384	.0022675
57	.0000058	.0000139	.0000317	.0000697	.0001474	.0003007	.0005919	.0011249
58	.0000021	.0000052	.0000124	.0000283	.0000623	.0001321	.0002700	.0005329
59	.0000007	.0000019	.0000046	.0000110	.0000251	.0000553	.0001175	.0002407
60	.0000002	.0000006	.0000016	.0000041	.0000096	.0000221	.0000487	.0001036
61	.0000001	.0000002	.0000006	.0000014	.0000035	.0000084	.0000192	.0000424
62		.0000001	.0000002	.0000005	.0000012	.0000030	.0000072	.0000165
63			.0000001	.0000002	.0000004	.0000010	.0000026	.0000061
64					.0000001	.0000003	.0000009	.0000021
65						.0000001	.0000003	.0000007
66							.0000001	.0000002
67								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	.9999999	1.0000000
21	.9999996	.9999999
22	.9999988	.9999995
23	.9999965	.9999986
24	.9999901	.9999957
25	.9999735	.9999881
26	.9999325	.9999686
27	.9998372	.9999214
28	.9996269	.9998130
29	.9991866	.9995766
30	.9983115	.9990880
31	.9966579	.9981267
32	.9934865	.9963283
33	.9875964	.9931248
34	.9803044	.9876886
35	.9674136	.9788947
36	.9483051	.9653270
37	.9212763	.9453523
38	.8847794	.9172797
39	.8377176	.8796034
40	.7797402	.8313005
41	.7115204	.7721294
42	.6347765	.7028559
43	.5522641	.6253155
44	.4674567	.5424067
45	.3841231	.4575933
46	.3058368	.3746645
47	.2355259	.2971441
48	.1751589	.2278706
49	.1256175	.1686995
50	.0867615	.1203966
51	.0576423	.0827203
52	.0367966	.0546477
53	.0225457	.0346730
54	.0132454	.0211053
55	.0074539	.0123114
56	.0040140	.0068752
57	.0020665	.0036717
58	.0010160	.0018733
59	.0004766	.0009180
60	.0002130	.0004232
61	.0000906	.0001870
62	.0000367	.0000786
63	.0000141	.0000314
64	.0000051	.0000119
65	.0000018	.0000043
66	.0000006	.0000014
67	.0000002	.0000005
68	.0000001	.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 89

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.59111798	.83437770	.93382210	.97356740	.98959120	.99594140	.99843330	.99940140
2	.88236546	.95335515	.97583325	.98758465	.99408340	.99788490	.99793880	.99947690
3	.96031010	.98634224	.99151730	.99569416	.99792310	.99811307	.99931801	.99770469
4	.99246170	.99358010	.99781735	.99786962	.99555053	.99882664	.99773104	.99323494
5	.99807040	.99940210	.99966150	.99912960	.99841739	.99684713	.99537717	.99457321
6	.99928600	.99980650	.99995790	.99963855	.99928358	.99884552	.99744205	.99526231
7	.99990337	.99981116	.99997685	.99990930	.99975165	.99957782	.99916786	.99748846
8	.99999034	.99994290	.99999700	.99998277	.99993018	.99985522	.99961297	.99963560
9	.99999903	.99999770	.99999960	.99999703	.99999774	.99998706	.99997406	.99996405
10		.99999123	.99999956	.99999806	.99999948	.99999962	.99999922	.99999875
11		.99999918	.99999949	.99999906	.99999913	.99999983	.99999951	.99999906
12		.99999992	.99999997	.99999983	.99999995	.99999998	.99999994	.99999990
13			.99999999	.99999997	.99999999	.99999999	.99999999	.99999999
14			.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
15			.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
16				.99999999	.99999999	.99999999	.99999999	.99999999
17				.99999999	.99999999	.99999999	.99999999	.99999999
18					.99999999	.99999999	.99999999	.99999999
19					.99999999	.99999999	.99999999	.99999999
20						.99999999	.99999999	.99999999
21						.99999999	.99999999	.99999999
22							.99999999	.99999999
23								.99999999
24								.99999999

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.99977737	.99991154	.99996687	.99998885	.99999559	.99999885	.99999995	.99999998
2	.99977818	.99992783	.99996243	.99998495	.99999401	.99999771	.99999913	.99999967
3	.99891136	.99949863	.99977512	.99990155	.99995783	.99998334	.99999275	.99999708
4	.99642520	.99818008	.99910375	.99957171	.99981093	.99990982	.99996013	.99998277
5	.99113871	.99503021	.99731973	.99860470	.99929674	.99965598	.99983635	.99992417
6	.98235044	.98988046	.99357127	.99636300	.99816610	.99895349	.99946500	.99973442
7	.96994359	.97982529	.98708529	.99208338	.99535674	.99755248	.99854757	.99932841
8	.95551155	.96763197	.97757990	.98516373	.99058975	.99486214	.99662790	.99808552
9	.93888126	.95374514	.96553808	.97549195	.98310992	.99110560	.99315555	.99584438
10	.92705869	.93985830	.95214325	.96368204	.97354170	.98155060	.98764065	.99209243
11	.91755513	.92761445	.93889892	.95067304	.96185342	.97171167	.97986490	.98200094
12	.91023661	.91766430	.92714272	.93791159	.94931030	.96030859	.96998741	.97887777
13	.90535105	.91050771	.91769813	.92675121	.93712762	.94836170	.95866881	.96835623
14	.90277580	.90586845	.91078407	.91767244	.92534524	.93630038	.94693806	.95721910
15	.90139611	.90304447	.90614511	.91095179	.91598895	.92592863	.93580439	.94570316
16	.90056439	.90147559	.90327633	.90636953	.91106436	.91748655	.92830410	.93735560
17	.90022969	.90066936	.90163960	.90347958	.90854836	.91113044	.92348810	.93207370
18	.90008751	.90028469	.90076986	.90178734	.90555067	.90660728	.92115706	.92917097
19	.90003131	.90011373	.90033989	.90086430	.90191872	.90379404	.92079114	.92814984
20	.90001053	.90004274	.90013130	.90039395	.90095153	.90203403	.92091207	.92864118
21	.90000333	.90001514	.90005539	.90016946	.90044564	.90103122	.92133280	.92940698
22	.90000100	.90000506	.90002050	.90006888	.90019754	.90045484	.92210274	.93021883
23	.90000028	.90000160	.90000718	.90002649	.90008265	.90022494	.92334033	.93116607
24	.90000007	.90000048	.90000238	.90000965	.90003293	.90009696	.92505121	.93058193
25	.90000002	.90000014	.90000075	.90000333	.90001241	.90003966	.92711090	.93037596
26		.90000004	.90000022	.90000109	.90000444	.90001541	.92944653	.93012442
27		.90000001	.90000006	.90000034	.90000151	.90000569	.93201856	.93005538
28			.90000002	.90000010	.90000049	.90000200	.93477055	.93021180
29				.90000003	.90000015	.90000067	.93760855	.93050848
30				.90000001	.90000004	.90000021	.94044088	.93083314
31					.90000001	.90000006	.94320039	.93111211
32						.90000002	.94581009	.93130538
33						.90000001	.94820003	.93140012
34							.95032001	.93140004
35								.93131001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999938	.99999996	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999855	.99999955	.99999983	.99999994	.99999998	.99999999	1.00000000	1.00000000
4	.99999272	.99999699	.99999878	.99999952	.99999981	.99999993	.99999997	.99999999
5	.99996574	.99998430	.99999348	.99999728	.99999887	.99999954	.99999982	.99999993
6	.99987178	.99993971	.99997237	.99998764	.99999460	.99999770	.99999904	.99999961
7	.99960236	.99980090	.99990302	.99995400	.99997873	.99999041	.99999578	.99999819
8	.99894805	.99943559	.99971014	.99985427	.99992071	.99996603	.99998423	.99999286
9	.99757440	.99862664	.99924640	.99959871	.99979240	.99989556	.99994887	.99997562
10	.99504284	.99702058	.99826739	.99903371	.99946631	.99971668	.99985280	.99992662
11	.99089317	.99400017	.99643024	.99787370	.99877284	.99931304	.99962664	.99980883
12	.98478999	.98975390	.99335533	.99500891	.99744895	.99849541	.99913933	.99958909
13	.97666467	.98340960	.98861655	.99245362	.99516147	.99699643	.99819318	.99894588
14	.96680735	.97516995	.98206044	.98748528	.99155985	.99449221	.99691928	.99786795
15	.95584724	.96533158	.97371210	.98074939	.98636258	.99065791	.99380486	.99602017
16	.94462303	.95454318	.96392084	.97431386	.97945482	.98525057	.98978955	.99316963
17	.93399045	.94359035	.95329853	.96786856	.97096221	.97819676	.98415049	.98841148
18	.92463891	.93386609	.94259000	.96210628	.96188811	.96965345	.97696702	.98306319
19	.91697741	.92490089	.93456609	.95664421	.95096046	.96001485	.96838417	.97776431
20	.91111347	.91764486	.92776049	.95187043	.94072148	.94985595	.96004400	.97151103
21	.90690980	.91105188	.92153612	.94771837	.93119534	.93982729	.95178037	.96531514
22	.90408082	.90693136	.91696813	.94399346	.92287504	.93053333	.94395855	.95775390
23	.90228986	.90413349	.91396118	.94053513	.91603860	.92243091	.93688309	.95011852
24	.90132129	.90234774	.91217271	.93699168	.91074514	.91577373	.93196626	.94384348
25	.90061941	.90126855	.91139332	.93419403	.90687540	.91061015	.92840958	.93914135
26	.90029690	.90065363	.91130811	.93242742	.90430088	.90682353	.92610487	.93521750
27	.90013730	.90031962	.91068152	.93134020	.90245084	.90419455	.92475783	.93261479
28	.90006007	.90014935	.91033857	.93070611	.90136530	.90246436	.92417638	.93067970
29	.90002503	.90006550	.91016044	.93035505	.90078647	.90130379	.92346871	.92946695
30	.90000996	.90002824	.91007255	.93017045	.90036923	.90074271	.92399588	.92866458

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 89

x/p	.17	.18	.19	.20	.21	.22	.23	.24
31	.0000378	.0001144	.0003132	.0007814	.0017930	.0038108	.0075497	.0140803
32	.0000137	.0000443	.0001291	.0003422	.0008321	.0018695	.0039068	.0076348
33	.0000047	.0000164	.0000568	.0001432	.0003692	.0008770	.0019336	.0039720
34	.0000016	.0000058	.0000191	.0000573	.0001566	.0003936	.0009158	.0019858
35	.0000005	.0000019	.0000069	.0000219	.0000635	.0001690	.0004151	.0009488
36	.0000001	.0000006	.0000024	.0000080	.0000247	.0000694	.0001801	.0004336
37		.0000002	.0000008	.0000028	.0000092	.0000273	.0000748	.0001899
38		.0000001	.0000002	.0000009	.0000033	.0000103	.0000297	.0000796
39			.0000001	.0000003	.0000011	.0000037	.0000113	.0000320
40				.0000001	.0000004	.0000013	.0000041	.0000123
41					.0000001	.0000004	.0000014	.0000045
42						.0000001	.0000005	.0000016
43							.0000002	.0000005
44								.0000002
45								.0000001

x/p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999924	.9999969	.9999987	.9999995	.9999999	1.0000000	1.0000000	1.0000000
8	.9999685	.9999864	.9999943	.9999976	.9999991	.9999996	.9999999	.9999999
9	.9998867	.9999487	.9999773	.9999902	.9999959	.9999983	.9999993	.9999997
10	.9996415	.9998294	.9999209	.9999643	.9999843	.9999932	.9999978	.9999988
11	.9989876	.9994942	.9997540	.9998835	.9999463	.9999759	.9999894	.9999955
12	.9974221	.9986483	.9993107	.9996580	.9998348	.9999223	.9999644	.9999841
13	.9940302	.9967165	.9982449	.9990879	.9995390	.9997738	.9998915	.9999494
14	.9873335	.9926963	.9959101	.9977748	.9988231	.9993948	.9996973	.9998827
15	.9752156	.9850293	.9912222	.9950026	.9972360	.9985143	.9998837	.9996056
16	.9550190	.9715576	.9825528	.9896122	.9939946	.9966875	.9981598	.9990240
17	.9238827	.9496677	.9677227	.9799170	.9878713	.9928877	.9959491	.9977584
18	.8793150	.9166414	.9441690	.9637267	.9771316	.9860058	.9916848	.9952009
19	.8198915	.8702261	.9093224	.9385418	.9595848	.9742065	.9840196	.9903867
20	.7458726	.8092854	.8611603	.9019427	.9328030	.9553109	.9711519	.9819209
21	.6595173	.7343448	.7986135	.8521272	.8945164	.9269676	.9509179	.9679773
22	.5649377	.6478303	.7230457	.7884740	.8431336	.8870555	.9210485	.9464174
23	.4674920	.5538760	.6364269	.7119616	.7782638	.8341849	.8795699	.9150575
24	.3728709	.4577137	.5431014	.6252846	.7010793	.7681788	.8255848	.8720680
25	.2861348	.3648000	.4481780	.5325883	.6143828	.6903859	.7588144	.8164345
26	.2109626	.2799282	.3568954	.4388620	.5233134	.6037083	.6798687	.7483683
27	.1493846	.2065143	.2737888	.3491412	.4297454	.5122560	.5933856	.6698160
28	.1013121	.1463330	.2020667	.2677278	.3415238	.4208096	.5033968	.5829363
29	.0659038	.0995125	.1433276	.1976218	.2617387	.3340288	.4120388	.4927188
30	.0410773	.0649098	.0976292	.1402746	.1931804	.2557979	.3266468	.4034168
31	.0245263	.0405944	.0638250	.0956712	.1371798	.1887429	.2499183	.3193668
32	.0140262	.0243347	.0400291	.0626583	.0936465	.1340488	.1843098	.2440891
33	.0076823	.0139801	.0240768	.0393888	.0614180	.0915681	.1308841	.1798817
34	.0040298	.0076961	.0138857	.0237583	.0386806	.0601114	.0894846	.1287917
35	.0020246	.0040595	.0076774	.0137466	.0233848	.0379109	.0587483	.0878399
36	.0009748	.0020517	.0040690	.0076883	.0135662	.0229595	.0370856	.0573860
37	.0004490	.0009936	.0020671	.0040593	.0075510	.0133480	.0228489	.0361103
38	.0001982	.0004610	.0010065	.0020718	.0040316	.0074474	.0130950	.0219768
39	.0000838	.0002049	.0004697	.0010132	.0020645	.0039869	.0073197	.0128105
40	.0000339	.0000873	.0002101	.0004751	.0010136	.0020476	.0039866	.0071699
41	.0000132	.0000356	.0000900	.0002136	.0004774	.0010086	.0020211	.0038518
42	.0000049	.0000139	.0000370	.0000920	.0002155	.0004764	.0009979	.0019857
43	.0000017	.0000052	.0000146	.0000380	.0000932	.0002158	.0004726	.0009821
44	.0000006	.0000019	.0000055	.0000150	.0000387	.0000937	.0002146	.0004659
45	.0000002	.0000006	.0000020	.0000057	.0000154	.0000390	.0000934	.0002119
46	.0000001	.0000002	.0000007	.0000021	.0000059	.0000156	.0000390	.0000924
47		.0000001	.0000002	.0000007	.0000021	.0000059	.0000156	.0000386
48			.0000001	.0000002	.0000007	.0000022	.0000060	.0000155
49				.0000001	.0000002	.0000008	.0000022	.0000059
50					.0000001	.0000003	.0000008	.0000022
51						.0000001	.0000003	.0000008
52							.0000001	.0000003
53								.0000001

x/p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999299	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999981	.9999998	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999931	.9999971	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000
13	.9999771	.9999899	.9999956	.9999982	.9999993	.9999997	.9999999	1.0000000
14	.9999303	.9999679	.9999854	.9999937	.9999973	.9999989	.9999996	.9999998
15	.9998051	.9999063	.9999568	.9999801	.9999918	.9999968	.9999984	.9999994
16	.9994949	.9997478	.9998771	.9999418	.9999738	.9999889	.9999948	.9999978
17	.9987947	.9993701	.9996401	.9998481	.9999348	.9999647	.9999840	.9999936
18	.9973098	.9985346	.9992845	.9996018	.9998007	.9999033	.9999644	.9999791
19	.9943838	.9968131	.9984433	.9990893	.9995107	.9997887	.9998786	.9999488
20	.9889088	.9934989	.9968690	.9979803	.9988741	.9994080	.9996977	.9998801
1	.9797194	.9875835	.9928481	.9956778	.9979685	.9986888	.9993988	.9996384

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 60

r	.33	.34	.35	.36	.37	.38	.39	.40
22	.9646919	.9774092	.9849650	.9915332	.9950404	.9971792	.9984423	.9991650
23	.9418803	.9613043	.9750086	.9843273	.9904565	.9943578	.9967616	.9981958
24	.9090045	.9371364	.9578227	.9725197	.9826143	.9893205	.9936314	.9963135
25	.8645564	.9088984	.9323744	.9542549	.9699464	.9808302	.9881277	.9928626
26	.8076361	.8570404	.8967468	.9278425	.9506078	.9673004	.9789791	.9868811
27	.7386261	.7988894	.8495244	.8905563	.9226479	.9468884	.9645813	.9770653
28	.6693160	.7209908	.7901937	.8420118	.8843323	.9176969	.9431026	.9617963
29	.5788190	.6422579	.7194533	.7815478	.8345048	.8780793	.9096954	.9392563
30	.4838058	.5628597	.6393308	.7100076	.7729499	.8270053	.8718029	.9076405
31	.3949301	.4730435	.5530451	.6295248	.7005473	.7643976	.8195112	.8655047
32	.3181796	.3865675	.4646183	.5433627	.6198299	.6913665	.7558084	.8130320
33	.2383063	.3050769	.3763171	.4555179	.5338809	.6102367	.6821581	.7474192
34	.1754588	.2385660	.2900510	.3701686	.4465306	.5243487	.6007361	.6730165
35	.1244748	.1710415	.2268648	.2910950	.3621183	.4376459	.5144457	.5913194
36	.0850134	.1212360	.1666302	.2211995	.2842024	.3541393	.4288537	.5057320
37	.0558598	.0827500	.1179793	.1622353	.2155675	.2773675	.3462421	.4201446
38	.0352902	.0543504	.0804543	.1147072	.1578270	.2099665	.2705850	.3384125
39	.0214267	.0343302	.0528044	.0781307	.1114224	.1534359	.2043932	.2638499
40	.0124975	.0208434	.0333349	.0512259	.0757832	.1081276	.1490524	.1984466
41	.0069999	.0121588	.0202304	.0323085	.0496195	.0734156	.1048252	.1446772
42	.0037639	.0068119	.0117973	.0195911	.0312553	.0479892	.0710315	.1015178
43	.0019423	.0036640	.0066077	.0114157	.0189291	.0301790	.0463391	.0696344
44	.0009616	.0018914	.0035534	.0063892	.0110166	.0182477	.0290836	.0467729
45	.0004567	.0009568	.0018340	.0034333	.0061583	.0106025	.0175499	.0297725
46	.0002080	.0004450	.0009081	.0017706	.0033050	.0059160	.0101759	.0184389
47	.0000908	.0002027	.0004313	.0008760	.0017028	.0031698	.0056664	.0097392
48	.0000380	.0000865	.0001964	.0004156	.0008459	.0016294	.0030886	.0050288
49	.0000152	.0000370	.0000857	.0001890	.0003903	.0008033	.0015530	.0024828
50	.0000058	.0000148	.0000358	.0000824	.0001809	.0003796	.0007636	.0011737
51	.0000021	.0000057	.0000143	.0000344	.0000786	.0001712	.0003598	.0007222
52	.0000008	.0000021	.0000055	.0000137	.0000327	.0000746	.0001624	.0003391
53	.0000003	.0000007	.0000020	.0000053	.0000131	.0000309	.0000702	.0001585
54	.0000001	.0000002	.0000007	.0000019	.0000050	.0000123	.0000290	.0000656
55		.0000001	.0000002	.0000007	.0000018	.0000047	.0000115	.0000270
56			.0000001	.0000002	.0000006	.0000017	.0000043	.0000106
57				.0000001	.0000002	.0000006	.0000016	.0000040
58					.0000001	.0000002	.0000005	.0000014
59						.0000001	.0000002	.0000005
60							.0000001	.0000002

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999991	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999970	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
18	.9999907	.9999960	.9999983	.9999993	.9999997	.9999999	1.0000000	1.0000000
19	.9999733	.9999880	.9999948	.9999978	.9999991	.9999996	.9999999	.9999999
20	.9999279	.9999663	.9999847	.9999933	.9999971	.9999988	.9999995	.9999998
21	.9998175	.9999114	.9999582	.9999809	.9999915	.9999964	.9999985	.9999994
22	.9995656	.9997607	.9998926	.9999490	.9999765	.9999895	.9999955	.9999981
23	.9990245	.9994882	.9997395	.9998714	.9999385	.9999715	.9999872	.9999944
24	.9979290	.9988712	.9994031	.9996940	.9998479	.9999267	.9999658	.9999846
25	.9958356	.9976424	.9987053	.9993105	.9996440	.9998219	.9999137	.9999595
26	.9920533	.9953250	.9973365	.9985271	.9992104	.9995090	.9997916	.9998994
27	.9855038	.9918253	.9947947	.9970120	.9983370	.9990130	.9995313	.9997629
28	.9750938	.9862378	.9903207	.9942342	.9966696	.9981354	.9988886	.9994487
29	.9589504	.9780657	.9828471	.9894015	.9936488	.9963103	.9979229	.9986776
30	.9353527	.9560484	.9709878	.9814144	.9884500	.9930400	.9959352	.9977003
31	.9025610	.9314028	.9530950	.9688632	.9799428	.9874605	.9924096	.9955453
32	.8591881	.8974360	.9274050	.9500943	.9666956	.9784355	.9864594	.9917594
33	.8045507	.8518551	.8922785	.9233654	.9470506	.9644088	.9768955	.9854253
34	.7389867	.7970938	.8465075	.8870905	.9193879	.9439670	.9632460	.9753260
35	.6639351	.7305874	.7896362	.8401465	.8818750	.9151754	.9408495	.9599716
36	.5819781	.6549077	.7222176	.7821848	.8337727	.8766343	.9110324	.9376998
37	.4965483	.5787039	.6459279	.7138732	.7747381	.8273866	.8713701	.9068605
38	.4115099	.4874356	.5634888	.6369094	.7055500	.7672937	.8209881	.8660643
39	.3306437	.4029411	.4767854	.5543250	.6280860	.6972439	.7598497	.8145774
40	.2571577	.3229291	.3944306	.4693895	.5452048	.6192112	.6889502	.7524034
41	.1933246	.2505044	.3152626	.3859707	.4604400	.5361208	.6103587	.6806642
42	.1403196	.1878257	.2438861	.3076385	.3775546	.4515092	.5270655	.6015822
43	.0983075	.1359536	.1823484	.2372993	.3000514	.3691755	.4426490	.5190318
44	.0662478	.0948969	.1316069	.1768918	.2307410	.2924964	.3608269	.4377946
45	.0429944	.0636144	.0915082	.1272713	.1714548	.2242082	.2849688	.3585027
46	.0266492	.0413071	.0613987	.0882838	.1229479	.1660360	.2176984	.2774641
47	.0161174	.0257170	.0394143	.0596026	.0849860	.1186378	.1606372	.2113093
48	.0092945	.0153804	.0245721	.0379196	.0565696	.0816972	.1143423	.1552459
49	.0051457	.0088440	.0146546	.0234307	.0362260	.0541628	.0784201	.1100628
50	.0027354	.0048787	.0083900	.0139185	.0222988	.0345370	.0517654	.0751570
51	.0013924	.0025816	.0046093	.0079344	.0131828	.0211624	.0328557	.0493804
52	.0006797	.0012965	.0024282	.0043389	.0074793	.0128500	.0200323	.0311155
53	.0003178	.0006364	.0012459	.0022745	.0040601	.0070264	.0117023	.0189314
54	.0001432	.0002961	.0005927	.0011421	.0021212	.0038011	.0065717	.0110021

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 09

r	.41	.42	.43	.44	.45	.46	.47	.48
55	.0000609	.0001314	.0002748	.0005489	.0010588	.0019694	.0035362	.0061348
56	.0000249	.0000561	.0001213	.0002524	.0005056	.0009765	.0018198	.0032757
57	.0000097	.0000228	.0000513	.0001109	.0002308	.0004629	.0008957	.0016734
58	.0000036	.0000089	.0000207	.0000465	.0001006	.0002097	.0004213	.0008171
59	.0000013	.0000033	.0000080	.0000196	.0000419	.0000905	.0001892	.0003810
60	.0000004	.0000012	.0000029	.0000071	.0000166	.0000374	.0000810	.0001694
61	.0000001	.0000004	.0000010	.0000026	.0000067	.0000147	.0000331	.0000718
62		.0000001	.0000003	.0000009	.0000024	.0000055	.0000120	.0000290
63			.0000001	.0000003	.0000008	.0000019	.0000047	.0000111
64				.0000001	.0000002	.0000007	.0000017	.0000040
65					.0000001	.0000002	.0000006	.0000014
66						.0000001	.0000002	.0000005
67							.0000001	.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	.9999999	1.0000000
21	.9999978	.9999999
22	.9999892	.9999997
23	.9999577	.9999991
24	.9998933	.9999972
25	.9997816	.9999919
26	.9995526	.9999784
27	.9990839	.9999452
28	.9981299	.9998678
29	.9964024	.9996949
30	.9937403	.9993324
31	.9897602	.9986074
32	.9841420	.9973275
33	.9765911	.9951266
34	.9668684	.9914067
35	.9547301	.9852916
36	.9397683	.9761108
37	.9214803	.9633396
38	.8994620	.9463160
39	.8733779	.9244416
40	.8431532	.8974520
41	.8089520	.8653149
42	.7710810	.8282926
43	.7300952	.7868957
44	.6866123	.7416711
45	.6413566	.6933000
46	.5950871	.6425069
47	.5485987	.5900774
48	.5026620	.5368160
49	.4580728	.4835416
50	.4156009	.4311480
51	.3759107	.3804584
52	.3394110	.3321840
53	.3064206	.2869604
54	.2770036	.2452092
55	.2510917	.2070084
56	.2285996	.1723933
57	.2093200	.1412734
58	.1930307	.1134725
59	.1794499	.0887926
60	.1682428	.0669676
61	.1590506	.0476051
62	.1514631	.0303328
63	.1450251	.0147550
64	.1393095	.0006816
65	.1339334	.0000081
66	.1284912	.0000028
67	.1225004	.0000009
68	.1155001	.0000003
69		.0000001

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 40$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.8850680	.8376894	.9385154	.9746847	.9901116	.9961849	.9985430	.9994493
2	.8873899	.8395680	.7860881	.8794674	.9432720	.9748681	.9866788	.9951396
3	.8819433	.8488850	.3089876	.7030298	.8338687	.9180159	.9556139	.9784480
4	.0189408	.1067476	.8848738	.4873839	.6648081	.7984582	.8856813	.9359851
5	.0021743	.0348051	.1341169	.2019549	.4703280	.6336414	.7631265	.8584738
6	.0003038	.0095818	.0839204	.1518973	.3240095	.4588878	.6084280	.7351451
7	.0000362	.0022806	.0187888	.0892245	.1639449	.2953435	.4434671	.5869149
8	.0000037	.0004884	.0037480	.0378001	.0761936	.1723954	.2944721	.4332399
9	.0000003	.0000940	.0016578	.0100187	.0321616	.0930092	.1781199	.2942961
10		.0000136	.0003784	.0038349	.0148194	.0434805	.0983278	.1821397
11		.0000030	.0000484	.0009989	.0058989	.0186194	.0496799	.1048696
12		.0000003	.0000168	.0003516	.0017613	.0075456	.0230498	.0550836
13			.0000030	.0000613	.0005376	.0028840	.0098340	.0266381
14			.0000005	.0000138	.0001518	.0009357	.0038946	.0121835
15			.0000001	.0000028	.0000393	.0002931	.0014876	.0050889
16				.0000005	.0000095	.0000853	.0004867	.0019896
17				.0000001	.0000021	.0000231	.0001548	.0007863
18					.0000004	.0000059	.0000460	.0002881
19					.0000001	.0000014	.0000125	.0000995
20						.0000003	.0000034	.0000329
21						.0000001	.0000008	.0000098
22							.0000002	.0000026
23								.0000006
24								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9997941	.9999138	.9999781	.9999899	.9999964	.9999987	.9999996	.9999998
2	.9979610	.9991680	.9996681	.9998668	.9999479	.9999801	.9999935	.9999978
3	.9894937	.9953955	.9979578	.9991156	.9996857	.9998480	.9999371	.9999750
4	.9644896	.9831194	.9917760	.9964129	.9988133	.9996997	.9999508	.9999806
5	.9161480	.9534880	.9751897	.9872075	.9959288	.9989188	.9996491	.9999355
6	.8305038	.8967543	.9398360	.9663300	.9898249	.9965184	.9988071	.9996478
7	.7105181	.8078061	.8779866	.9269693	.9568504	.9787662	.9868519	.9930937
8	.5681043	.6881130	.7868548	.8599409	.9180686	.9469479	.9691585	.9868044
9	.4219798	.5513382	.6868868	.7655256	.8426439	.8982751	.9367641	.9621137
10	.2903072	.4134698	.5861668	.6504648	.7481269	.8260435	.8846789	.9264142
11	.1848845	.2874083	.4838500	.5323698	.6337088	.7306913	.8102877	.8713350
12	.1089588	.1864938	.3843590	.3951336	.5094091	.6181901	.7146755	.7930348
13	.0595588	.1186171	.2973704	.2810003	.3871137	.4974077	.6036660	.6993567
14	.0308365	.0733663	.2184468	.1876185	.2774695	.3794341	.4861867	.5900104
15	.0148928	.0438687	.1548837	.1173827	.1873897	.2736066	.3780444	.4754571
16	.0063084	.0243848	.0359368	.0691940	.1191386	.1866844	.2700418	.3649041
17	.0025981	.0074999	.0181986	.0388638	.0713844	.1203031	.1856640	.2661960
18	.0010034	.0038316	.0086584	.0199041	.0403797	.0730832	.1208481	.1843540
19	.0003637	.0013089	.0038718	.0097507	.0214387	.0419510	.0744603	.1211328
20	.0001240	.0004984	.0014314	.0043539	.0107735	.0228048	.0434393	.0754984
21	.0000398	.0001790	.0004484	.0018640	.0051161	.0117161	.0240056	.0444412
22	.0000121	.0000607	.0001434	.0008095	.0022982	.0056993	.0128740	.0255494
23	.0000035	.0000194	.0000454	.0003157	.0009776	.0026873	.0068469	.0139452
24	.0000009	.0000059	.0000291	.0001167	.0003948	.0011487	.0034958	.0074340
25	.0000008	.0000017	.0000093	.0000409	.0001508	.0004768	.0016198	.0038491
26	.0000001	.0000005	.0000028	.0000136	.0000548	.0001880	.0007610	.0019467
27		.0000001	.0000008	.0000043	.0000189	.0000705	.0003276	.0009474
28			.0000002	.0000013	.0000062	.0000252	.0001377	.0004685
29			.0000001	.0000004	.0000019	.0000085	.0000588	.0002061
30				.0000001	.0000006	.0000028	.0000113	.0000400
31					.0000002	.0000009	.0000038	.0000144
32						.0000003	.0000013	.0000049
33						.0000001	.0000004	.0000016
34							.0000001	.0000005
35								.0000002

r	.17	.18	.19	.20	.21	.22	.23	.24
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999980	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999903	.9999963	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000
4	.9999376	.9999748	.9999898	.9999960	.9999985	.9999994	.9999998	.9999999
5	.9997038	.9998706	.9999449	.9999771	.9999907	.9999963	.9999985	.9999994
6	.9988775	.9994784	.9997638	.9999256	.9999750	.9999910	.9999969	.9999989
7	.9964816	.9983588	.9991880	.9996073	.9998306	.9999301	.9999753	.9999933
8	.9905988	.9950468	.9974679	.9987481	.9993981	.9997140	.9999089	.9999414
9	.9780798	.9877897	.9933451	.9964988	.9982103	.9991107	.9997000	.9999076
10	.9547871	.9730967	.9848340	.9913871	.9953479	.9975601	.9989367	.9998038
11	.9189851	.9470784	.9677930	.9810370	.9891847	.9940184	.9967889	.9990854
12	.8588753	.9055415	.9353336	.9622186	.9778697	.9867580	.9905141	.9975947
13	.7804597	.8455156	.8951318	.9312466	.9564184	.9738680	.9841070	.9944413
14	.6848310	.7664871	.8330410	.8847890	.9231619	.9504314	.9690483	.9881264
15	.5771044	.6710084	.7589889	.8209096	.8745401	.9150146	.9442916	.9764364
16	.4653114	.5646508	.6578118	.7399256	.8090545	.8644018	.9068335	.9580884
17	.3577799	.4556186	.5531677	.6451746	.7274566	.7974859	.8543860	.9306418
18	.2688867	.3611446	.4463198	.5419870	.6330387	.7153299	.7861988	.8944998
19	.1887086	.2803868	.3446750	.4373642	.5318506	.6213534	.7035823	.8491604
20	.1211034	.2103335	.2543241	.3388518	.4287166	.5209091	.6100744	.7921837
21	.0748448	.1508017	.1790875	.2502878	.3319583	.4203360	.5109196	.7191624
22	.0486175	.0767896	.1202604	.1769944	.2462231	.3257800	.4181941	.6312453
23	.0259435	.0463075	.0769820	.1195079	.1747441	.2443344	.3297045	.5404651
24	.0140895	.0266954	.0469681	.0770853	.1185681	.1783831	.2500853	.4513781
25	.0078175	.0146881	.0273140	.0473760	.0780805	.1174614	.1699158	.3638986
26	.0035318	.0076349	.0151430	.0278074	.0476253	.0765658	.1162055	.1673523
27	.0016477	.0037972	.0080057	.0155771	.0281835	.0477292	.0760976	.1144156
28	.0007380	.0018004	.0040373	.0083294	.0159313	.0284500	.0476999	.0754900
29	.0003100	.0008141	.0019428	.0042527	.0086064	.0162152	.0286144	.0475481
30	.0001252	.0003513	.0008925	.0020937	.0044425	.0088375	.0164263	.0286835
31	.0000483	.0001447	.0003915	.0009660	.0021910	.0046064	.0090218	.0165704

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 90$$

r	.17	.18	.19	.20	.21	.22	.23	.24
28	.0000178	.0000569	.0001641	.0004301	.0010339	.0022965	.0047442	.0091669
29	.0000068	.0000214	.0000657	.0001830	.0004644	.0010954	.0023873	.0048562
30	.0000021	.0000077	.0000252	.0000745	.0002012	.0004999	.0011499	.0024637
31	.0000007	.0000026	.0000092	.0000290	.0000831	.0002184	.0005303	.0011971
32	.0000002	.0000009	.0000032	.0000108	.0000336	.0000913	.0002342	.0005571
33	.0000001	.0000003	.0000011	.0000038	.0000134	.0000365	.0000990	.0002404
34		.0000001	.0000003	.0000013	.0000045	.0000140	.0000401	.0001061
35			.0000001	.0000004	.0000016	.0000051	.0000156	.0000434
36				.0000001	.0000005	.0000018	.0000058	.0000170
41					.0000002	.0000006	.0000021	.0000064
42					.0000001	.0000002	.0000007	.0000023
43						.0000001	.0000002	.0000008
44							.0000001	.0000003
45								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999939	.9999975	.9999990	.9999996	.9999999	.9999999	1.0000000	1.0000000
8	.9999744	.9999891	.9999955	.9999982	.9999993	.9999997	.9999999	1.0000000
9	.9999072	.9999585	.9999819	.9999923	.9999968	.9999987	.9999995	.9999998
10	.9997088	.9998604	.9999362	.9999715	.9999876	.9999948	.9999978	.9999991
11	.9991319	.9995814	.9997991	.9999061	.9999573	.9999811	.9999918	.9999966
12	.9978135	.9986683	.9994304	.9997211	.9998678	.9999384	.9999788	.9999878
13	.9948788	.9972188	.9985327	.9992475	.9996248	.9998180	.9999141	.9999605
14	.9890077	.9937415	.9965405	.9981425	.9990307	.9995083	.9997575	.9998836
15	.9788450	.9870280	.9924879	.9957788	.9976963	.9987785	.9993705	.9996846
16	.9600682	.9730600	.9848935	.9911215	.9949346	.9971936	.9984894	.9992101
17	.9316668	.9553591	.9717268	.9836317	.9896471	.9940097	.9966344	.9981634
18	.8904570	.9252283	.9505285	.9686600	.9808461	.9880499	.9930063	.9960193
19	.8347474	.8882941	.9187310	.9458936	.9646734	.9777461	.9869556	.9919873
20	.7643773	.8281300	.8741641	.9121904	.9405698	.9609796	.9751409	.9846300
21	.6811062	.7538893	.8156472	.8660755	.9056195	.9354706	.9571904	.9734393
22	.5885886	.6703841	.7435030	.8062969	.8580346	.8990281	.9303080	.9533166
23	.4918535	.5783041	.6598140	.7331851	.7970760	.8500461	.8924863	.9250937
24	.3965868	.4887159	.5689993	.6495542	.7234628	.7879006	.8481130	.8858246
25	.3078188	.3889576	.4738073	.5585432	.6395248	.7137237	.7790061	.8342572
26	.2297564	.3019704	.3815417	.4651054	.5490135	.6297074	.7041559	.7701475
27	.1647043	.2356003	.2962276	.3742630	.4565901	.5396899	.6200850	.6947278
28	.1133058	.1619801	.2214317	.2905235	.3671076	.4482435	.5305538	.6106418
29	.0747550	.1116858	.1591871	.2172515	.2848720	.3600631	.4400494	.5215884
30	.0478839	.0739065	.1099678	.1563319	.2130606	.2792472	.3531181	.4319930
31	.0296640	.0469164	.0739521	.1081602	.1534200	.2088594	.2737041	.3463626
32	.0166518	.0285689	.0464540	.0719080	.1062719	.1504566	.2046484	.2681760
33	.0089683	.0166723	.0278839	.0459043	.0707643	.1043079	.1474461	.2004281
34	.0049430	.0093299	.0161373	.0281549	.0452745	.0695466	.1022771	.1443525
35	.0026259	.0050050	.0090536	.0165499	.0278208	.0445711	.0682559	.1001845
36	.0018368	.0025738	.0050433	.0093414	.0164135	.0274450	.0438001	.0666985
37	.0005803	.0012687	.0026076	.0050587	.0092954	.0162314	.0270138	.0429673
38	.0002609	.0005995	.0013929	.0026279	.0050522	.0092176	.0160071	.0265313
39	.0001124	.0002715	.0006147	.0013094	.0026349	.0050251	.0091100	.0157136
40	.0000464	.0001179	.0002802	.0006258	.0013165	.0026294	.0049785	.0088749
41	.0000184	.0000491	.0001225	.0002868	.0006329	.0013203	.0026118	.0049136
42	.0000070	.0000196	.0000513	.0001261	.0002914	.0006361	.0013151	.0025829
43	.0000025	.0000075	.0000206	.0000531	.0001287	.0002940	.0006354	.0013033
44	.0000009	.0000027	.0000079	.0000215	.0000545	.0001303	.0002946	.0006311
45	.0000003	.0000010	.0000029	.0000083	.0000221	.0000554	.0001310	.0002932
46	.0000001	.0000003	.0000010	.0000031	.0000086	.0000226	.0000559	.0001307
47		.0000001	.0000004	.0000011	.0000032	.0000088	.0000238	.0000588
48			.0000001	.0000004	.0000011	.0000033	.0000090	.0000229
49				.0000001	.0000004	.0000012	.0000034	.0000090
50					.0000001	.0000004	.0000012	.0000034
51						.0000001	.0000004	.0000013
52							.0000001	.0000004
53								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999948	.9999978	.9999991	.9999996	.9999999	.9999999	1.0000000	1.0000000
13	.9999824	.9999923	.9999968	.9999987	.9999995	.9999998	.9999999	1.0000000
14	.9999457	.9999753	.9999891	.9999953	.9999980	.9999992	.9999997	.9999999
15	.9998454	.9999278	.9999665	.9999850	.9999935	.9999972	.9999989	.9999998
16	.9995986	.9998017	.9999048	.9999556	.9999798	.9999911	.9999963	.9999984
17	.9990264	.9994985	.9997490	.9998779	.9999493	.9999735	.9999888	.9999949
18	.9977997	.9988187	.9993840	.9996879	.9998464	.9999266	.9999659	.9999816
19	.9953493	.9973984	.9985867	.9992544	.9996180	.9998099	.9999082	.9999569
20	.9907757	.9946257	.9969600	.9983303	.9991096	.9995390	.9997683	.9998869
21	.9827788	.9895551	.9938504	.9964851	.9980497	.9989495	.9994507	.9997213
22	.9696496	.9808460	.9882691	.9930283	.9959747	.9977451	.9987740	.9993532

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 50$$

r	.33	.34	.35	.36	.37	.38	.39	.40
23	.9493679	.9667799	.9788433	.9869214	.9931525	.9954299	.9974171	.9985835
24	.9198337	.9453534	.9638378	.9767704	.9855159	.9912346	.9948528	.9970664
25	.8792243	.9145393	.9418813	.9608302	.9746348	.9840565	.9902748	.9942430
26	.8264198	.8726321	.9098165	.9371590	.9577638	.9724417	.9825471	.9898737
27	.7613994	.8186608	.8660523	.9038713	.9329931	.9546450	.9701965	.9809916
28	.6854883	.7587563	.8109595	.8594878	.8985091	.9287896	.9514795	.9679039
29	.6013630	.6963670	.7449185	.8033147	.8529410	.8931344	.9245542	.9482723
30	.5197702	.5982351	.6673737	.7357621	.7957258	.8464136	.8877510	.9208916
31	.4240611	.5041090	.5832451	.6584906	.7273993	.7881005	.8399068	.8833628
32	.3394873	.4168413	.4955677	.5743811	.6497383	.7191182	.7807025	.8334811
33	.2686845	.3387037	.4085225	.4871420	.5656316	.6410659	.7109129	.7732643
34	.1961985	.2578197	.3261441	.4008943	.4788207	.5569868	.6349907	.7087776
35	.1413994	.1919598	.2517799	.3195615	.3933471	.4708930	.5484345	.6439983
36	.0980356	.1381699	.1877123	.2463619	.3130291	.3858720	.4644491	.5799470
37	.0654801	.0958352	.1350071	.1834560	.2409684	.3065409	.3784607	.5143796
38	.0420780	.0640062	.0935881	.1318137	.1791910	.2355787	.3000913	.4711054
39	.0260017	.0411371	.0624816	.0912982	.1285981	.1749174	.2320080	.4236749
40	.0154441	.0254289	.0401492	.0609116	.0889697	.1253448	.1706353	.3848479
41	.0088141	.0151116	.0248169	.0391188	.0593000	.0866061	.1280739	.1663449
42	.0048316	.0086296	.0147489	.0241694	.0380500	.0576512	.0842110	.1187815
43	.0025434	.0047343	.0084341	.0143589	.0234898	.0369469	.0559691	.0817878
44	.0012852	.0024941	.0046024	.0081988	.0139448	.0227816	.0358139	.0542875
45	.0006233	.0012614	.0024358	.0044974	.0079559	.0135077	.0220480	.0346527
46	.0002900	.0006122	.0012322	.0023692	.0043608	.0076974	.0130510	.0212963
47	.0001294	.0002851	.0005983	.0011961	.0022952	.0042136	.0074851	.0125790
48	.0000554	.0001273	.0002786	.0005814	.0011596	.0022147	.0040574	.0071410
49	.0000227	.0000545	.0001244	.0002706	.0005601	.0011172	.0021288	.0038938
50	.0000089	.0000224	.0000533	.0001208	.0002613	.0005406	.0010715	.0020374
51	.0000034	.0000088	.0000219	.0000517	.0001165	.0002508	.0005173	.0010288
52	.0000012	.0000033	.0000086	.0000212	.0000497	.0001116	.0002394	.0004934
53	.0000004	.0000012	.0000032	.0000083	.0000203	.0000475	.0001068	.0002271
54	.0000001	.0000004	.0000012	.0000031	.0000080	.0000194	.0000451	.0001004
55		.0000001	.0000004	.0000011	.0000030	.0000076	.0000183	.0000424
56			.0000001	.0000004	.0000011	.0000028	.0000071	.0000178
57				.0000001	.0000004	.0000010	.0000026	.0000066
58					.0000001	.0000003	.0000009	.0000025
59						.0000001	.0000003	.0000009
60							.0000001	.0000003
61								.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999978	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999933	.9999971	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000
19	.9999804	.9999913	.9999963	.9999985	.9999994	.9999998	.9999999	1.0000000
20	.9999465	.9999754	.9999890	.9999953	.9999980	.9999992	.9999997	.9999999
21	.9998688	.9999344	.9999696	.9999864	.9999941	.9999975	.9999990	.9999996
22	.9996689	.9998356	.9999208	.9999630	.9999833	.9999927	.9999969	.9999987
23	.9992463	.9996110	.9998053	.9999056	.9999556	.9999790	.9999911	.9999962
24	.9983781	.9991303	.9995478	.9997721	.9998807	.9999473	.9999759	.9999893
25	.9966939	.9981585	.9990054	.9994792	.9997358	.9998701	.9999382	.9999716
26	.9936041	.9963006	.9979351	.9988718	.9994055	.9996966	.9998500	.9999283
27	.9882361	.9930173	.9958877	.9976786	.9987300	.9993269	.9996546	.9998259
28	.9793940	.9881642	.9923445	.9954564	.9974199	.9985805	.9992037	.9996009
29	.9655688	.9775880	.9860607	.9915879	.9950081	.9971498	.9984238	.9991561
30	.9450890	.9631957	.9760873	.9849387	.9907894	.9945444	.9968894	.9983606
31	.9160063	.9417540	.9607889	.9743857	.9837710	.9900314	.9940666	.9965797
32	.8769709	.9117028	.9384517	.9583527	.9726569	.9833907	.9892560	.9935766
33	.8269568	.8715798	.9073829	.9351262	.9558909	.9730043	.9813906	.9884656
34	.7688712	.8205136	.8661890	.9030515	.9317811	.9534074	.9691314	.9801736
35	.6947063	.7585801	.8140909	.8608018	.8987108	.9264201	.9509060	.9673417
36	.6155805	.6866932	.7512076	.8076880	.8554187	.8943634	.9250464	.9483900
37	.5315745	.6072295	.6787325	.7439303	.8013037	.8500405	.8900114	.9216631
38	.4463756	.5232483	.5989376	.6708183	.7366047	.7949365	.8446678	.8856569
39	.3637988	.4384266	.5149799	.5906973	.6629448	.7294668	.7885848	.8393007
40	.2878870	.3565341	.4305311	.5067611	.5825013	.6551062	.7232739	.7828469
41	.2194962	.2809228	.3493048	.4226750	.4985841	.5743424	.6473967	.7150990
42	.1680464	.2141507	.2745760	.3421047	.4148530	.4904413	.5668133	.6395103
43	.1154698	.1577399	.2088096	.2682486	.3349279	.4070584	.4883858	.5561070
44	.0793395	.1121407	.1534257	.2034711	.2619307	.3277688	.3992037	.4742884
45	.0585801	.0768693	.1087969	.1491043	.1981336	.2556208	.3206281	.3915898
46	.0334687	.0507603	.0743802	.1054383	.1447760	.1927956	.2493156	.3134886
47	.0205174	.0332648	.0499816	.0718751	.1020688	.1404413	.1874560	.2430116
48	.0120919	.0197264	.0310443	.0471873	.0693570	.0986099	.1361009	.1821135
49	.0068467	.0115927	.0189221	.0298103	.0453806	.0668287	.0953035	.1317585
50	.0037285	.0065441	.0110838	.0181074	.0285661	.0435649	.0642931	.0919110
51	.0019462	.0035464	.0062350	.0105674	.0178050	.0283147	.0417432	.0617538
52	.0009719	.0018438	.0033661	.0059209	.0100453	.0164577	.0260593	.0399189
53	.0004662	.0009191	.0017429	.0031830	.0056037	.0095212	.0156380	.0244028

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 90$$

%	.41	.42	.43	.44	.45	.46	.47	.48
54	.00021443	.00043900	.00086649	.00164031	.00299078	.00528047	.00899856	.01479806
55	.00009348	.00020008	.00041111	.00080997	.00153695	.00281800	.00496577	.00847111
56	.00003997	.00008779	.00018870	.00038439	.00075445	.00143338	.00262465	.00466481
57	.00001660	.00003668	.00008014	.00016731	.00033545	.00066992	.00133301	.00244495
58	.00000681	.00001497	.00003339	.00006948	.00014598	.00029263	.00064445	.00132381
59	.00000273	.00000596	.00001334	.00002809	.00006083	.00011454	.00028963	.00059033
60	.00000108	.00000230	.00000521	.00001128	.00002503	.00004619	.00013118	.00027710
61	.00000043	.00000087	.00000198	.00000446	.00001009	.00002251	.00005536	.00011107
62	.00000001	.00000032	.00000076	.00000176	.00000411	.00000917	.00002353	.00004958
63		.00000011	.00000028	.00000068	.00000164	.00000376	.00000965	.00002097
64			.00000010	.00000026	.00000065	.00000153	.00000394	.00000874
65				.00000009	.00000025	.00000062	.00000161	.00000367
66						.00000025	.00000065	.00000153
67							.00000026	.00000063
68								.00000026

%	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	.99999999	.99999999
22	.99999998	.99999998
23	.99999994	.99999994
24	.99999981	.99999981
25	.99999873	.99999945
26	.99996668	.99998853
27	.99991766	.99996617
28	.99980454	.99990061
29	.99956829	.99973810
30	.99906647	.99935136
31	.99800915	.99806699
32	.99638818	.99619174
33	.99307760	.99309770
34	.98766825	.98856666
35	.97889429	.98068492
36	.96553866	.97777019
37	.94586288	.96372859
38	.91027730	.94332778
39	.86813015	.91487888
40	.81339393	.87769468
41	.77592206	.82850834
42	.70794088	.76960338
43	.63174113	.70079411
44	.55001699	.62398834
45	.46611439	.54193356
46	.38376928	.45880644
47	.30634555	.37601666
48	.23670061	.29920059
49	.17676735	.23039662
50	.12740059	.17141666
51	.08851169	.12305332
52	.05981119	.08518118
53	.03809550	.05667222
54	.02354483	.03607748
55	.01397330	.02189898
56	.00794497	.01315088
57	.00433334	.00743334
58	.00228609	.00402830
59	.00111279	.00208026
60	.00053375	.00103301
61	.00024445	.00048864
62	.00010660	.00021990
63	.00004438	.00009339
64	.00001728	.00003883
65	.00000644	.00001488
66	.00000232	.00000555
67	.00000080	.00000199
68	.00000027	.00000066
69	.00000091	.00000022
70		.00000007

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 91

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.5993153	.8409356	.9374499	.9756397	.9906061	.9964130	.9986450	.9994934
2	.8310093	.9455304	.9814069	.9938737	.9456140	.9975883	.9993698	.9998444
3	.9655974	.9842309	.9951983	.9985773	.9990539	.9997211	.9999274	.9999770
4	.9914208	.9949891	.9987915	.9997020	.9998160	.9999517	.9999908	.9999801
5	.9979819	.9986439	.9996396	.9999780	.9999960	.9999963	.9999990	.9999999
6	.9993285	.9998568	.9999263	.9999896	.9999994	.9999995	.9999999	.9999999
7	.9998389	.9999967	.9999869	.9999985	.9999999	.9999999	.9999999	.9999999
8	.9999841	.9999984	.9999985	.9999998	.9999999	.9999999	.9999999	.9999999
9	.9999984	.9999998	.9999998	.9999999	.9999999	.9999999	.9999999	.9999999
10	.9999998	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
11		.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
12		.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
13			.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
14			.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
15			.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
16				.9999999	.9999999	.9999999	.9999999	.9999999
17				.9999999	.9999999	.9999999	.9999999	.9999999
18					.9999999	.9999999	.9999999	.9999999
19					.9999999	.9999999	.9999999	.9999999
20						.9999999	.9999999	.9999999
21						.9999999	.9999999	.9999999
22							.9999999	.9999999
23							.9999999	.9999999
24								.9999999

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9998186	.9999314	.9999759	.9999911	.9999969	.9999989	.9999996	.9999999
2	.9981960	.9992382	.9995932	.9998831	.9999542	.9999827	.9999956	.9999976
3	.9904198	.9957788	.9981147	.9993036	.9998639	.9999454	.9999855	.9999785
4	.9685959	.9843470	.9934599	.9964733	.9989369	.9996301	.9999938	.9999705
5	.9206760	.9564187	.9769875	.9882761	.9948196	.9979350	.9987143	.9994179
6	.8382115	.9004241	.9437316	.9600865	.9833587	.9914140	.9957084	.9979178
7	.7213113	.8164327	.8847900	.9308114	.9600971	.9770315	.9881051	.9938224
8	.5807210	.7004135	.7963353	.8678643	.9178302	.9509885	.9718198	.9843499
9	.4351330	.5650559	.6815655	.7777354	.8516691	.9050893	.9416833	.9654050
10	.3011578	.4384567	.5507374	.6643916	.7604141	.8361903	.8924916	.9321861
11	.1943179	.2999855	.4181449	.5376226	.6406006	.7442103	.8213953	.8801477
12	.1137018	.1965937	.2974709	.4103698	.5253706	.6339683	.7290088	.8078488
13	.0599980	.1200047	.1980391	.2946965	.4215181	.5313172	.6303174	.7146658
14	.0288766	.0682914	.1233579	.2048247	.3317213	.4395504	.5337576	.6075508
15	.0157879	.0362784	.0719391	.1359870	.2592740	.3605945	.4391568	.4937856
16	.0070215	.0180192	.0393046	.0750007	.1380073	.1988815	.2853419	.3835586
17	.0038315	.0089034	.0201448	.0419754	.0775664	.1295105	.1963406	.2913993
18	.0011169	.0036584	.0097051	.0218073	.0443142	.0796886	.1305705	.1974407
19	.0004413	.0015307	.0043980	.0109691	.0238073	.0463453	.0814185	.1312477
20	.0001456	.0005794	.0018779	.0051335	.0121600	.0254904	.0480995	.0827998
21	.0000474	.0002109	.0007565	.0022688	.0058515	.0133785	.0269806	.0495784
22	.0000146	.0000725	.0002800	.0009400	.0026645	.0065117	.0143887	.0281841
23	.0000043	.0000235	.0001037	.0003750	.0011493	.0030474	.0071959	.0152178
24	.0000012	.0000078	.0000354	.0001465	.0004760	.0013557	.0034409	.0078066
25	.0000003	.0000031	.0000114	.0000500	.0001824	.0005709	.0015634	.0038099
26	.0000001	.0000006	.0000035	.0000169	.0000673	.0002305	.0006755	.0017687
27		.0000006	.0000010	.0000054	.0000236	.0000870	.0002777	.0007817
28			.0000003	.0000017	.0000079	.0000315	.0001087	.0003391
29			.0000001	.0000005	.0000035	.0000109	.0000406	.0001335
30				.0000001	.0000008	.0000036	.0000144	.0000506
31					.0000002	.0000011	.0000049	.0000185
32					.0000001	.0000003	.0000016	.0000064
33						.0000001	.0000005	.0000021
34							.0000001	.0000007
35								.0000002
36								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999917	.9999969	.9999988	.9999996	.9999998	.9999999	1.0000000	1.0000000
4	.9999466	.9999784	.9999915	.9999967	.9999987	.9999995	.9999998	.9999999
5	.9997431	.9999093	.9999534	.9999808	.9999943	.9999979	.9999993	.9999996
6	.9990177	.9997440	.9998908	.9999619	.9999884	.9999955	.9999987	.9999995
7	.9976819	.9994784	.9997263	.9998649	.9999689	.9999935	.9999975	.9999991
8	.9951939	.9988645	.9993898	.9997153	.9999391	.9999893	.9999970	.9999989
9	.9900865	.9980467	.9984184	.9994470	.9998584	.9999834	.9999957	.9999984
10	.9806969	.9959706	.9963001	.9984093	.9995490	.9999014	.9999838	.9999931
11	.9635211	.9917617	.9909738	.9961070	.9990790	.9997976	.9999415	.9999794
12	.9360860	.9839181	.9784599	.9909883	.9979718	.9993513	.9998473	.9999460
13	.8936884	.9685203	.9485345	.9774415	.9950693	.9979300	.9994419	.9998541
14	.8310879	.9406876	.8948544	.9440806	.9881458	.9945841	.9985074	.9995644
15	.7454101	.8981891	.8138855	.8847507	.9738663	.9880263	.9969043	.9988676
16	.6403163	.8389592	.6758943	.7561784	.9428065	.9755366	.9934488	.9966143
17	.5269263	.7615204	.5710501	.6241380	.8744921	.9512074	.9864489	.9908094
18	.4175546	.6737019	.4666209	.4952245	.7528664	.9033044	.9714938	.9779530
19	.3196116	.5850515	.3639875	.3788904	.5526261	.8202088	.9388218	.9511019
20	.2378916	.4949469	.2714908	.2780747	.3680488	.6930068	.8735018	.8880981
21	.1738703	.4116414	.1933894	.1967806	.2332776	.5224631	.7537858	.7814875
22	.1258240	.3346636	.1314370	.1316451	.1464275	.3466053	.5934010	.6547483
23	.0896079	.2651449	.0858049	.0851910	.0897547	.2065364	.4209771	.4875403
24	.0626548	.2030399	.0546708	.0535218	.0530651	.1177984	.2561115	.3154813
25	.0431754	.1508002	.0330483	.0331058	.0306349	.0655442	.1455005	.1853059
26	.0291600	.1083937	.0194555	.0197211	.0171689	.0355439	.0785587	.1033834
27	.0191604	.0754840	.0109410	.0114211	.0093663	.0186731	.0413844	.0547484
28	.0122877	.0511504	.0059913	.0064790	.0049058	.0096015	.0213115	.0282861
29	.0076110	.0339916	.0031406	.0035095	.0024969	.0048065	.0107043	.0143341
30	.0046546	.0219346	.0016921	.0018553	.0012453	.0023812	.0052040	.0071110

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 31

n \ p	.17	.18	.19	.20	.21	.22	.23	.24
31	.0000614	.0001819	.0004867	.0011876	.0026648	.0055372	.0107264	.0194776
32	.0000230	.0000727	.0002073	.0005373	.0012771	.0028047	.0057385	.0109457
33	.0000082	.0000278	.0000844	.0002324	.0005856	.0013596	.0029294	.0058908
34	.0000028	.0000101	.0000329	.0000962	.0002569	.0006309	.0014345	.0030379
35	.0000009	.0000035	.0000122	.0000381	.0001079	.0002803	.0006720	.0015011
36	.0000003	.0000012	.0000044	.0000144	.0000434	.0001193	.0003023	.0007107
37	.0000001	.0000004	.0000015	.0000052	.0000167	.0000486	.0001301	.0003225
38		.0000001	.0000005	.0000018	.0000062	.0000190	.0000536	.0001402
39			.0000002	.0000006	.0000022	.0000071	.0000212	.0000585
40				.0000002	.0000007	.0000025	.0000080	.0000234
41				.0000001	.0000002	.0000009	.0000029	.0000089
42					.0000001	.0000003	.0000010	.0000033
43						.0000001	.0000003	.0000012
44							.0000001	.0000004
45								.0000001

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999990	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999951	.9999980	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
8	.9999793	.9999913	.9999964	.9999986	.9999994	.9999998	.9999999	1.0000000
9	.9999240	.9999665	.9999856	.9999940	.9999975	.9999990	.9999996	.9999999
10	.9997539	.9998859	.9999485	.9999774	.9999903	.9999959	.9999984	.9999993
11	.9992890	.9996539	.9998361	.9999245	.9999661	.9999852	.9999937	.9999974
12	.9981479	.9990537	.9995300	.9997729	.9998933	.9999512	.9999783	.9999906
13	.9956120	.9976477	.9987751	.9993802	.9996951	.9998541	.9999321	.9999693
14	.9904753	.9946456	.9970784	.9984519	.9992030	.9996012	.9998060	.9999083
15	.9809357	.9887691	.9935821	.9964406	.9980833	.9989974	.9994905	.9997483
16	.9646134	.9781701	.9869440	.9924256	.9957355	.9976690	.9987627	.9993620
17	.9387671	.9604813	.9752818	.9850088	.9911805	.9949648	.9973095	.9984984
18	.9007594	.9330623	.9562520	.9722841	.9829724	.9898518	.9941310	.9967054
19	.8486748	.8934570	.9273163	.9519402	.9691895	.9808433	.9884449	.9932367
20	.7819698	.8399927	.8861972	.9215433	.9475598	.9660096	.9786299	.9869651
21	.7019240	.7723675	.8314467	.8789877	.9157551	.9431233	.9627551	.9763403
22	.6117135	.6920354	.7629819	.8230349	.8718342	.9099615	.9386416	.9594358
23	.5160358	.6022293	.6824100	.7538004	.8147540	.8647410	.9041710	.9341243
24	.4203560	.5075686	.5930083	.6730268	.7448107	.8066003	.8577107	.8913904
25	.3299957	.4133347	.4993202	.5840263	.6638668	.7360008	.7985692	.8507452
26	.2492720	.3246019	.4064534	.4912680	.5752618	.6549123	.7273595	.7906562
27	.1809674	.2454617	.3192624	.3996989	.4833929	.5666951	.6461470	.7188757
28	.1261550	.1765214	.2416266	.3139706	.3930575	.4756774	.5583084	.6375587
29	.0843932	.1247623	.1759932	.2377677	.3087203	.3865172	.4681057	.5500854
30	.0541519	.0857291	.1232570	.1733894	.2338859	.3035060	.3800668	.4606635
31	.0333190	.0539338	.0829464	.1216483	.1707158	.2299817	.2983825	.3736963
32	.0196544	.0333343	.0536085	.0820543	.1199443	.1679774	.2260557	.2931651
33	.0111140	.0197636	.0332626	.0531836	.0810613	.1181525	.1651788	.2221080
34	.0060243	.0112389	.0198089	.0331103	.0526665	.0799750	.1162795	.1623219
35	.0031301	.0061295	.0113202	.0197937	.0328819	.0520637	.0788025	.1143311
36	.0015590	.0032059	.0062071	.0113598	.0197214	.0325828	.0513014	.0775500
37	.0007444	.0016080	.0032653	.0062578	.0113596	.0195955	.0322176	.0506253
38	.0003407	.0007735	.0016479	.0033085	.0062827	.0113217	.0194192	.0317909
39	.0001495	.0003568	.0007978	.0016786	.0033359	.0062828	.0112481	.0191957
40	.0000629	.0001578	.0003705	.0008172	.0017003	.0033481	.0062593	.0111409
41	.0000254	.0000670	.0001650	.0003817	.0008317	.0017130	.0033455	.0062132
42	.0000098	.0000272	.0000705	.0001711	.0003905	.0008413	.0017171	.0033567
43	.0000036	.0000106	.0000289	.0000736	.0001759	.0003966	.0008461	.0017128
44	.0000013	.0000040	.0000114	.0000303	.0000760	.0001754	.0004002	.0008468
45	.0000004	.0000014	.0000043	.0000120	.0000315	.0000779	.0001817	.0004013
46	.0000001	.0000005	.0000015	.0000046	.0000125	.0000324	.0000791	.0001827
47		.0000002	.0000005	.0000017	.0000048	.0000130	.0000331	.0000798
48		.0000001	.0000002	.0000006	.0000017	.0000050	.0000133	.0000334
49			.0000001	.0000002	.0000006	.0000018	.0000051	.0000134
50				.0000001	.0000002	.0000006	.0000019	.0000058
51					.0000001	.0000002	.0000007	.0000019
52						.0000001	.0000002	.0000007
53							.0000001	.0000002
54								.0000001

n \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999960	.9999984	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
13	.9999865	.9999942	.9999976	.9999990	.9999996	.9999999	.9999999	1.0000000
14	.9999578	.9999811	.9999918	.9999965	.9999986	.9999994	.9999998	.9999999
15	.9998792	.9999436	.9999744	.9999887	.9999952	.9999980	.9999992	.9999997
16	.9996804	.9998444	.9999264	.9999662	.9999849	.9999934	.9999973	.9999989
17	.9993152	.9996016	.9998035	.9999059	.9999562	.9999802	.9999913	.9999963
18	.9988045	.9990499	.9995117	.9997563	.9998819	.9999444	.9999746	.9999887
19	.9981579	.9983813	.9988658	.9994105	.9997025	.9998543	.9999307	.9999680
20	.9973850	.9955684	.9979293	.9986630	.9992977	.9996419	.9998328	.9999149
21	.9964178	.9912791	.9949388	.9971494	.9984419	.9991735	.9995746	.9997875

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 51$$

r	.33	.34	.35	.36	.37	.38	.39	.40
22	.9739823	.9838084	.9902226	.9942708	.9967424	.9982028	.9990380	.9995004
23	.9560609	.9715631	.9821424	.9891188	.9935667	.9963097	.9979463	.9988914
24	.9295800	.9526385	.9690897	.9804248	.9879714	.9928288	.9950525	.9976732
25	.8926254	.9250161	.9491761	.9665587	.9786608	.9867842	.9920596	.9953723
26	.8438453	.8868806	.9204392	.9456806	.9640061	.9768553	.9855606	.9912614
27	.7828561	.8370110	.8811597	.9158549	.9421503	.9614077	.9750132	.9843045
28	.7105390	.7751628	.8302420	.8754658	.9112682	.9386147	.9587790	.9731390
29	.6291244	.7023394	.7675739	.8235371	.8698012	.9066634	.9350550	.9561249
30	.5420113	.6208400	.6942673	.7600811	.8168950	.8641675	.9021042	.9314839
31	.4533377	.5340719	.6126901	.6863134	.7526799	.8103141	.8585660	.8975340
32	.3673966	.4461163	.5262548	.6046634	.6784691	.7453649	.8037921	.8529976
33	.2880294	.3611593	.4389883	.5185481	.5967489	.6707258	.7381308	.7973270
34	.2181389	.2829115	.3549766	.4319435	.5109407	.5889365	.6630754	.7309723
35	.1594161	.2141482	.2778074	.3488413	.4249723	.5034224	.5812164	.6555100
36	.1123126	.1564585	.2101360	.2727137	.3427467	.4180660	.4959834	.5735795
37	.0762234	.1102290	.1534539	.2061021	.2676271	.3366867	.4112161	.4886146
38	.0498007	.0748281	.1080847	.1504049	.2020464	.2625443	.3306553	.4044151
39	.0313069	.0489126	.0733690	.1058838	.1473157	.1979687	.2574625	.3246471
40	.0189281	.0307697	.0479656	.0718508	.1036300	.1441824	.1938687	.2537787
41	.0110020	.0186195	.0301832	.0469642	.0702778	.1013268	.1410128	.1897461
42	.0061459	.0108336	.0182727	.0295512	.0459125	.0686541	.0989775	.1378069
43	.0032986	.0060588	.0106377	.0178906	.0288771	.0468145	.0669835	.0965853
44	.0017004	.0032558	.0059530	.0104164	.0174761	.0281644	.0436740	.0652696
45	.0008417	.0016805	.0032011	.0058299	.0101716	.0170318	.0274165	.0424946
46	.0004000	.0008330	.0016534	.0031354	.0056910	.0099053	.0165603	.0266364
47	.0001824	.0003963	.0008201	.0016197	.0030595	.0055375	.0096195	.0160643
48	.0000798	.0001810	.0003904	.0008034	.0015798	.0029743	.0053708	.0093162
49	.0000335	.0000793	.0001784	.0003825	.0007832	.0015343	.0028808	.0051923
50	.0000135	.0000333	.0000782	.0001747	.0003726	.0007597	.0014837	.0027797
51	.0000052	.0000134	.0000329	.0000765	.0001700	.0003610	.0007334	.0014287
52	.0000019	.0000052	.0000132	.0000321	.0000744	.0001645	.0003478	.0007046
53	.0000007	.0000019	.0000051	.0000129	.0000312	.0000719	.0001581	.0003338
54	.0000002	.0000007	.0000019	.0000050	.0000125	.0000301	.0000689	.0001511
55	.0000001	.0000002	.0000007	.0000018	.0000048	.0000121	.0000288	.0000656
56		.0000001	.0000002	.0000007	.0000018	.0000046	.0000115	.0000273
57			.0000001	.0000002	.0000006	.0000017	.0000044	.0000109
58				.0000001	.0000002	.0000006	.0000016	.0000041
59					.0000001	.0000002	.0000006	.0000015
60						.0000001	.0000002	.0000005
61							.0000001	.0000002
62								.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999985	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999952	.9999980	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
19	.9999857	.9999938	.9999974	.9999989	.9999996	.9999998	.9999999	1.0000000
20	.9999604	.9999821	.9999922	.9999967	.9999986	.9999995	.9999998	.9999999
21	.9996971	.9999516	.9999780	.9999903	.9999958	.9999983	.9999993	.9999997
22	.9997484	.9998771	.9999418	.9999733	.9999881	.9999949	.9999979	.9999991
23	.9994196	.9997053	.9998550	.9999309	.9999681	.9999857	.9999938	.9999974
24	.9987341	.9993382	.9996585	.9998308	.9999198	.9999623	.9999830	.9999924
25	.9973845	.9985666	.9992386	.9996081	.9998046	.9999056	.9999559	.9999801
26	.9948709	.9970809	.9983896	.9991391	.9995541	.9997764	.9998915	.9999491
27	.9904370	.9943499	.9967638	.9982036	.9990340	.9994969	.9997464	.9998764
28	.9830193	.9895889	.9938111	.9964342	.9980094	.9989238	.9994368	.9997148
29	.9712371	.9817086	.9887198	.9932564	.9960934	.9978079	.9988091	.9993740
30	.9534503	.9693118	.9803759	.9878323	.9926878	.9957429	.9976000	.9986904
31	.9279056	.9507595	.9673672	.9790246	.9869293	.9921074	.9953839	.9973865
32	.8929754	.9243239	.9480567	.9654072	.9776582	.9860134	.9915170	.9950101
33	.8477626	.8884309	.9207425	.9453458	.9634356	.9768800	.9850873	.9909189
34	.7909463	.8419611	.8839024	.9171643	.9426305	.9614560	.9748932	.9841538
35	.7238839	.7845574	.8364931	.8793917	.9135985	.9399143	.9594719	.9735010
36	.6480221	.7168605	.7782474	.8310581	.8749002	.9100295	.9372004	.9574868
37	.5660170	.6406042	.7098966	.7719837	.8256554	.8704290	.9064790	.9344920
38	.4813072	.5585204	.6332494	.7029876	.7657632	.8202843	.8659793	.9029399
39	.3976553	.4740530	.5510817	.6259505	.6961277	.7595829	.8149438	.8615517
40	.3186568	.3909299	.4668441	.5436930	.6187009	.6893121	.7534395	.8096327
41	.2472904	.3126795	.3842321	.4596729	.5363469	.6114937	.6825355	.7473300
42	.1856008	.2431950	.3067105	.3775556	.4525320	.5290358	.6043825	.6757989
43	.1345663	.1814324	.2370900	.3007453	.3708942	.4454144	.5217526	.5971807
44	.0941589	.1312924	.1772408	.2319732	.2947794	.3648419	.4388132	.5144908
45	.0635160	.0916833	.1279869	.1730257	.2266423	.2888089	.3575930	.4312815
46	.0412798	.0617261	.0891791	.1246513	.1687069	.2216952	.2828896	.3509419
47	.0258275	.0400329	.0599030	.0866429	.1213870	.1645843	.2165899	.2768377
48	.0155464	.0249925	.0387573	.0580492	.0840773	.1178955	.1602178	.2113446
49	.0089972	.0150088	.0241347	.0374568	.0563700	.0814848	.1144783	.1559874
50	.0050034	.0086645	.0144543	.0238567	.0361326	.0542662	.0788680	.1110368
51	.0026721	.0048054	.0083200	.0138850	.0223615	.0347898	.0583417	.0762893

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 91

c	.41	.42	.43	.44	.45	.46	.47	.48
52	.0013697	.0025589	.0045997	.0079654	.0133035	.0214519	.0334308	.0503993
53	.0006735	.0013075	.0024409	.0043876	.0076027	.0127120	.0205307	.0320585
54	.0003175	.0006406	.0012425	.0023190	.0041704	.0072335	.0121128	.0196006
55	.0001434	.0003008	.0006063	.0011753	.0021943	.0039494	.0068598	.0115083
56	.0000620	.0001353	.0002834	.0005708	.0011066	.0020674	.0037259	.0064832
57	.0000257	.0000582	.0001268	.0002654	.0005345	.0010368	.0019394	.0035012
58	.0000102	.0000240	.0000543	.0001181	.0002471	.0004977	.0009666	.0018110
59	.0000038	.0000094	.0000222	.0000502	.0001092	.0002286	.0004609	.0008964
60	.0000014	.0000035	.0000087	.0000204	.0000461	.0001003	.0002101	.0004242
61	.0000005	.0000013	.0000032	.0000079	.0000186	.0000420	.0000914	.0001918
62	.0000002	.0000004	.0000012	.0000029	.0000072	.0000168	.0000380	.0000827
63		.0000001	.0000004	.0000010	.0000026	.0000064	.0000150	.0000340
64			.0000001	.0000003	.0000009	.0000023	.0000057	.0000133
65				.0000001	.0000003	.0000008	.0000020	.0000050
66					.0000001	.0000003	.0000007	.0000018
67						.0000001	.0000002	.0000006
68							.0000001	.0000002
69								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	.9999999	1.0000000
22	.9999997	.9999999
23	.9999990	.9999996
24	.9999969	.9999987
25	.9999913	.9999963
26	.9999769	.9999899
27	.9999417	.9999734
28	.9998604	.9999339
29	.9996817	.9998436
30	.9993048	.9996473
31	.9985684	.9992417
32	.9971686	.9984437
33	.9946469	.9969472
34	.9903151	.9942718
35	.9832155	.9897979
36	.9721067	.9822752
37	.9555039	.9707132
38	.9317920	.9535265
39	.8994175	.9291035
40	.8571468	.8959128
41	.8043498	.8527651
42	.7412509	.7990936
43	.6690790	.7351990
44	.5900618	.6623888
45	.5072417	.5829595
46	.4241328	.5000000
47	.3442831	.4170405
48	.2708294	.3376112
49	.2061373	.2648010
50	.1515930	.2009064
51	.1075725	.1472349
52	.0735713	.1040872
53	.0484423	.0708967
54	.0306762	.0464735
55	.0186644	.0292868
56	.0109007	.0177248
57	.0061054	.0102921
58	.0032764	.0057282
59	.0016831	.0030588
60	.0008268	.0015563
61	.0003881	.0007583
62	.0001738	.0003527
63	.0000742	.0001564
64	.0000302	.0000661
65	.0000117	.0000266
66	.0000043	.0000101
67	.0000015	.0000037
68	.0000005	.0000013
69	.0000002	.0000004
70		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 92

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.6033222	.8441169	.9393264	.9766141	.9910758	.9966890	.9987398	.9995339
2	.3346923	.5514385	.7666882	.8869683	.9476636	.9768331	.9900134	.9958051
3	.0652715	.2796657	.5237489	.7170148	.8443819	.9193410	.9601879	.9810520
4	.0139319	.1132741	.3083413	.5045729	.6809696	.8052496	.8926445	.9485656
5	.0023934	.0377188	.1432283	.3076215	.4896488	.6528965	.7796280	.8681028
6	.0003421	.0105806	.0587957	.1631905	.3124067	.4772407	.6299114	.7541424
7	.0000417	.0025499	.0209316	.0759301	.1771430	.3146811	.4665110	.6104538
8	.0000044	.0005363	.0065443	.0312611	.0896792	.1871964	.3154096	.4569466
9	.0000004	.0000997	.0018165	.0114858	.0407686	.1007374	.1945691	.3151800
10		.0000166	.0004518	.0037954	.0167423	.0498299	.1096776	.2000143
11		.0000025	.0001015	.0011358	.0062466	.0219419	.0566438	.1169380
12		.0000003	.0000207	.0003097	.0021287	.0089877	.0268859	.0630861
13			.0000039	.0000774	.0006857	.0033834	.0117678	.0314775
14			.0000007	.0000178	.0001919	.0011650	.0047644	.0145631
15			.0000001	.0000038	.0000512	.0003745	.0017901	.0066858
16				.0000007	.0000127	.0001118	.0006859	.0028107
17				.0000001	.0000029	.0000311	.0002642	.0009402
18					.0000006	.0000081	.0000923	.0002997
19					.0000001	.0000020	.0000308	.0000885
20						.0000005	.0000098	.0000256
21						.0000001	.0000018	.0000068
22							.0000003	.0000017
23							.0000001	.0000003
24								.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9998295	.9999383	.9999779	.9999922	.9999973	.9999991	.9999997	.9999999
2	.9982778	.9993075	.9997269	.9998943	.9999598	.9999850	.9999945	.9999980
3	.9912953	.9961188	.9983154	.9992867	.9997048	.9998805	.9999586	.9999816
4	.9705781	.9854875	.9930817	.9968011	.9985621	.9993704	.9997311	.9998878
5	.9249888	.9592115	.9786890	.9892598	.9947626	.9975227	.9988611	.9994903
6	.8456333	.9078236	.9473809	.9711605	.9847706	.9922289	.9961593	.9981578
7	.7318323	.8250318	.8912725	.9353732	.9631211	.9797330	.9892456	.9944777
8	.5935561	.7120146	.8060742	.8754179	.9233771	.9547413	.9742564	.9858655
9	.4402521	.5785914	.6941916	.7885509	.8602778	.9115144	.9461516	.9664568
10	.3141254	.4402266	.5651285	.6779929	.7728713	.8458362	.8998614	.9374508
11	.2040235	.3136235	.4327301	.5528613	.6631363	.7570943	.8380598	.8884648
12	.1228495	.2069321	.3107451	.4256614	.5415645	.6494033	.7488662	.8189076
13	.0686592	.1276635	.2089766	.3085797	.4189447	.5310684	.6366810	.7294776
14	.0356777	.0734627	.1315728	.2103293	.3061908	.4135218	.5218416	.6346513
15	.0172713	.0394797	.0775889	.1347276	.2111184	.3036843	.4063469	.5119809
16	.0076051	.0198451	.0428937	.0811190	.1372460	.2114414	.3009148	.4003834
17	.0032996	.0093460	.0222568	.0459384	.0841237	.1392224	.2113738	.2980858
18	.0013075	.0041308	.0108540	.0244915	.0486370	.0866637	.1407330	.2109758
19	.0004866	.0017164	.0049818	.0123057	.0265428	.0510133	.0887913	.1418399
20	.0001704	.0006715	.0021551	.0058338	.0136845	.0284101	.0530914	.0905514
21	.0000562	.0002478	.0008799	.0026136	.0066716	.0149795	.0300964	.0548938
22	.0000175	.0000863	.0003395	.0011065	.0030788	.0074834	.0161835	.0316078
23	.0000052	.0000285	.0001240	.0004437	.0013462	.0035452	.0082599	.0172924
24	.0000014	.0000089	.0000429	.0001687	.0005583	.0015940	.0040048	.0089940
25	.0000004	.0000026	.0000141	.0000608	.0002198	.0006808	.0018450	.0044497
26	.0000001	.0000007	.0000044	.0000208	.0000822	.0002764	.0008087	.0020983
27		.0000002	.0000013	.0000068	.0000293	.0001068	.0003374	.0009396
28			.0000004	.0000021	.0000099	.0000393	.0001341	.0004016
29			.0000001	.0000006	.0000032	.0000138	.0000508	.0001636
30				.0000002	.0000010	.0000046	.0000183	.0000636
31					.0000003	.0000015	.0000063	.0000236
32					.0000001	.0000004	.0000021	.0000084
33						.0000001	.0000007	.0000028
34							.0000002	.0000009
35							.0000001	.0000003
36								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999930	.9999974	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000
4	.9999542	.9999817	.9999929	.9999973	.9999990	.9999996	.9999999	1.0000000
5	.9997777	.9999054	.9999607	.9999840	.9999937	.9999975	.9999991	.9999997
6	.9991412	.9996103	.9998277	.9999257	.9999687	.9999872	.9999948	.9999980
7	.9972508	.9986711	.9993755	.9997143	.9998727	.9999447	.9999766	.9999903
8	.9924941	.9961382	.9980728	.9990651	.9995591	.9997976	.9999095	.9999606
9	.9821424	.9902307	.9948241	.9973406	.9986734	.9993569	.9996968	.9998640
10	.9633536	.9781275	.9877130	.9933168	.9964760	.9931966	.9991036	.9995669
11	.9287126	.9560761	.9738683	.9849675	.9916277	.9954805	.9976330	.9987963
12	.8773485	.9199920	.9496595	.9694072	.9830203	.9897695	.9943585	.9969884
13	.8063360	.8665259	.9113890	.9431494	.9647818	.9788967	.9877568	.9931158
14	.7168299	.7943015	.8559990	.9027587	.9365825	.9600248	.9756202	.9856019
15	.6133819	.7048389	.7827625	.8457645	.8942836	.9299888	.9531646	.9728184
16	.5032036	.6027206	.5934320	.7716798	.8358147	.8859359	.9233920	.9508885
17	.3946016	.4948426	.5925905	.6825467	.7610171	.8261399	.8777189	.9160118
18	.2951588	.3889766	.4868425	.5839274	.6721208	.7507409	.8167883	.8694380
19	.2102939	.2921480	.3834879	.4791572	.5736766	.6631309	.7408808	.8075680
20	.1425940	.2093651	.2890652	.3781178	.4717480	.5647916	.6585115	.7318870
21	.0919829	.1430379	.2002230	.2859194	.3788515	.4645819	.5568321	.6438341
22	.0564419	.0931191	.1432071	.2068922	.2987180	.3676759	.4576306	.5477635
23	.0329490	.0577554	.0939891	.1431316	.2053940	.2794665	.3685796	.4580895
24	.0183044	.0341296	.0588523	.0946181	.1488369	.2037468	.2761696	.3575887
25	.0096809	.0192193	.0351566	.0597490	.0950282	.1423447	.2019637	.2780308
26	.0048767	.0103169	.0200382	.0360381	.0604607	.0958387	.1416737	.2000898
27	.0023410	.0052810	.0108996	.0207627	.0367818	.0610010	.0952667	.1400408
28	.0010714	.0025789	.0056597	.0114278	.0219355	.0373955	.0613823	.0951873
29	.0004678	.0012019	.0028064	.0060102	.0119008	.0219395	.0378863	.0614159

$$F(r,n,p) = \sum_{i=r}^{n} \binom{n}{i} p^{i} (1-p)^{n-i}$$

N	.17	.18	.19	.20	.21	.22	.23	.24
30	.0001949	.0005349	.0013293	.0030212	.0063308	.0123188	.0223977	.0382613
31	.0000776	.0002274	.0006017	.0014520	.0032215	.0066203	.0126021	.0227736
32	.0000295	.0000924	.0002604	.0006673	.0015604	.0034059	.0068780	.0129918
33	.0000107	.0000359	.0001077	.0002934	.0007308	.0016775	.0035732	.0071035
34	.0000037	.0000133	.0000427	.0001235	.0003259	.0007912	.0017783	.0037226
35	.0000012	.0000047	.0000162	.0000497	.0001392	.0003574	.0008480	.0018700
36	.0000004	.0000016	.0000059	.0000193	.0000569	.0001547	.0003875	.0009004
37	.0000001	.0000005	.0000020	.0000071	.0000223	.0000641	.0001697	.0004157
38		.0000002	.0000007	.0000025	.0000084	.0000255	.0000718	.0001840
39			.0000002	.0000008	.0000030	.0000097	.0000287	.0000781
40			.0000001	.0000003	.0000010	.0000035	.0000111	.0000318
41				.0000001	.0000003	.0000012	.0000041	.0000134
42					.0000001	.0000004	.0000015	.0000046
43						.0000001	.0000005	.0000017
44							.0000002	.0000006
45							.0000001	.0000002
46								.0000001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999961	.9999985	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
8	.9999833	.9999931	.9999972	.9999989	.9999996	.9999998	.9999999	1.0000000
9	.9999378	.9999729	.9999885	.9999952	.9999981	.9999992	.9999997	.9999999
10	.9997964	.9999069	.9999585	.9999820	.9999924	.9999969	.9999987	.9999995
11	.9994052	.9997142	.9998665	.9999323	.9999731	.9999884	.9999951	.9999980
12	.9984331	.9992097	.9996126	.9998154	.9999144	.9999614	.9999831	.9999926
13	.9962460	.9980132	.9989789	.9994901	.9997585	.9998832	.9999464	.9999761
14	.9917595	.9954262	.9975365	.9987110	.9993457	.9995771	.9998451	.9999278
15	.9833206	.9902970	.9945261	.9970038	.9984080	.9991786	.9995883	.9997995
16	.9686932	.9809259	.9887363	.9935498	.9966163	.9980675	.9989883	.9994056
17	.9452284	.9650804	.9784306	.9870855	.9935014	.9957761	.9976910	.9987747
18	.9102613	.9401912	.9613901	.9758670	.9883587	.9913057	.9950853	.9973798
19	.8616959	.9037544	.9351290	.9593365	.9803110	.9835458	.9902076	.9943467
20	.7986461	.8538934	.8972993	.9350544	.9683384	.9704597	.9816735	.9889720
21	.7219354	.7899500	.8462294	.8999032	.9499898	.9442894	.9676763	.9797403
22	.6342661	.7129218	.7814674	.8537017	.9229743	.9099101	.9461128	.9640453
23	.5399552	.6255789	.7041644	.7931061	.8833073	.8638071	.9149569	.9402224
24	.4443774	.5321806	.6171467	.7156434	.8276942	.8046425	.8721134	.9058253
25	.3525863	.4378356	.5246159	.6089466	.7537805	.7317806	.8169031	.8659917
26	.2694529	.3476724	.4315274	.5172403	.6709572	.6492388	.7494345	.8098847
27	.1980435	.2660382	.3428040	.4253392	.5800349	.5591503	.6713228	.7418454
28	.1398581	.1959259	.2625883	.3379345	.4892548	.4692627	.5855394	.6635781
29	.0948336	.1387397	.1937142	.2591015	.4031781	.3832653	.4960686	.5780759
30	.0617122	.0943978	.1374958	.1914153	.3255879	.3084095	.4073589	.4892785
31	.0385272	.0616806	.0938302	.1361350	.2590351	.2520390	.3236632	.4015258
32	.0230705	.0386902	.0615297	.0931406	.1946660	.1865707	.2484584	.3189351
33	.0132491	.0232920	.0387562	.0612674	.0923374	.1331000	.1840507	.2448463
34	.0072967	.0134553	.0234415	.0387308	.0609010	.0914203	.1314383	.1814548
35	.0038537	.0074579	.0136122	.0235283	.0386195	.0604371	.0904203	.1296808
36	.0019518	.0039660	.0075876	.0137213	.0235380	.0384271	.0598830	.0893199
37	.0009480	.0020235	.0040596	.0076864	.0137846	.0234917	.0381584	.0592412
38	.0004416	.0009904	.0020846	.0041343	.0077550	.0138033	.0233867	.0378179
39	.0001973	.0004651	.0010273	.0021350	.0041905	.0077945	.0137812	.0232260
40	.0000846	.0002096	.0004859	.0010584	.0021746	.0042285	.0078058	.0137184
41	.0000348	.0000906	.0002205	.0005037	.0010836	.0022035	.0042487	.0077901
42	.0000137	.0000376	.0000960	.0002301	.0005184	.0011028	.0022219	.0042518
43	.0000052	.0000149	.0000401	.0001009	.0002381	.0005300	.0011161	.0022209
44	.0000019	.0000057	.0000161	.0000424	.0001050	.0002446	.0005385	.0011335
45	.0000007	.0000021	.0000062	.0000171	.0000444	.0001084	.0002494	.0005437
46	.0000002	.0000007	.0000023	.0000066	.0000180	.0000461	.0001109	.0002527
47	.0000001	.0000002	.0000008	.0000025	.0000070	.0000188	.0000474	.0001127
48		.0000001	.0000003	.0000009	.0000026	.0000074	.0000194	.0000483
49			.0000001	.0000003	.0000009	.0000028	.0000076	.0000198
50				.0000001	.0000003	.0000010	.0000029	.0000079
51					.0000001	.0000003	.0000010	.0000030
52						.0000001	.0000004	.0000011
53							.0000001	.0000004
54								.0000001

N	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999970	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
13	.9999896	.9999956	.9999982	.9999993	.9999997	.9999999	1.0000000	1.0000000
14	.9999673	.9999856	.9999938	.9999974	.9999990	.9999996	.9999998	.9999999
15	.9999051	.9999564	.9999805	.9999915	.9999964	.9999985	.9999994	.9999998
16	.9997460	.9998781	.9999432	.9999743	.9999887	.9999953	.9999980	.9999992
17	.9993687	.9996842	.9998465	.9999276	.9999668	.9999852	.9999936	.9999973

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 92$$

x	.33	.34	.35	.36	.37	.38	.39	.40
18	.9985380	.9992375	.9996139	.9998102	.9999074	.9999580	.9999811	.9999918
19	.9968333	.9982786	.9990918	.9995380	.9997689	.9998805	.9999478	.9999763
20	.9935631	.9963548	.9979971	.9989321	.9994475	.9997226	.9998649	.9999362
21	.9876840	.9927375	.9958455	.9976943	.9987505	.9993515	.9996714	.9998385
22	.9777560	.9863485	.9918732	.9953071	.9973712	.9985716	.9993478	.9996153
23	.9619749	.9757265	.9849704	.9909735	.9947417	.9970290	.9983720	.9991350
24	.9383187	.9590720	.9736581	.9835546	.9900417	.9941516	.9966691	.9981605
25	.9048204	.9344077	.9561459	.9715569	.9821057	.9890918	.9935308	.9962827
26	.8599437	.8998467	.9304971	.9532003	.9694283	.9806383	.9880958	.9929058
27	.8029826	.8539667	.8949076	.9265921	.9502420	.9674778	.9791267	.9870873
28	.7344037	.7961919	.8480632	.8900059	.9226975	.9472760	.9651103	.9776052
29	.6559912	.7270997	.7895077	.8422315	.8851440	.9188173	.9443073	.9629306
30	.5707585	.6485498	.7199246	.7829252	.8364703	.8803335	.9149550	.9413403
31	.4826000	.5635730	.6412421	.7128698	.7764395	.8307784	.8755459	.9111139
32	.3957572	.4760212	.5565071	.6340574	.7059271	.7700456	.8251540	.8708121
33	.3148206	.3900447	.4695316	.5495496	.6269854	.6990887	.7637387	.8195952
34	.2418027	.3095157	.3843807	.4631211	.5426897	.6200164	.6923470	.7575142
35	.1787946	.2375277	.3048166	.3787501	.4567806	.5359177	.6131414	.6856949
36	.1278568	.1760730	.2338210	.3001196	.3731702	.4505014	.5292243	.6063517
37	.0881329	.1259470	.1732927	.2300823	.2954213	.3676108	.4442754	.5286005
38	.0585202	.0868644	.1239640	.1704559	.2263113	.2907184	.3620741	.4580949
39	.0374098	.0577239	.0855195	.1219114	.1675648	.2235074	.2860077	.3865543
40	.0230131	.0369383	.0568568	.0841027	.1197930	.1646212	.2186702	.3212861
41	.0136176	.0227506	.0364071	.0559234	.0826181	.1176119	.1616866	.2647992
42	.0077485	.0134808	.0224414	.0358199	.0549277	.0810697	.1153713	.2165826
43	.0043382	.0076822	.0133100	.0220884	.0351002	.0530736	.0794612	.1753075
44	.0023278	.0042088	.0075926	.0131071	.0216945	.0344915	.0527647	.0777959
45	.0011851	.0022161	.0041642	.0074810	.0128743	.0212628	.0337569	.0516046
46	.0005458	.0011211	.0021951	.0041054	.0073488	.0126134	.0207942	.0329797
47	.0002542	.0005448	.0011117	.0021653	.0040331	.0071972	.0123264	.0202932
48	.0001137	.0002548	.0005408	.0010972	.0021273	.0039483	.0070278	.0120155
49	.0000488	.0001139	.0002526	.0005340	.0010779	.0020815	.0038519	.0068419
50	.0000201	.0000489	.0001132	.0002495	.0005245	.0010540	.0020285	.0037440
51	.0000079	.0000202	.0000487	.0001119	.0002450	.0005125	.0010260	.0019691
52	.0000030	.0000080	.0000201	.0000481	.0001098	.0002391	.0004982	.0009942
53	.0000011	.0000030	.0000080	.0000199	.0000472	.0001071	.0002321	.0004818
54	.0000004	.0000011	.0000030	.0000079	.0000195	.0000459	.0001037	.0002239
55	.0000001	.0000004	.0000011	.0000030	.0000077	.0000189	.0000444	.0000998
56		.0000001	.0000004	.0000011	.0000029	.0000074	.0000188	.0000426
57			.0000001	.0000004	.0000011	.0000028	.0000072	.0000174
58				.0000001	.0000004	.0000010	.0000027	.0000068
59					.0000001	.0000003	.0000010	.0000026
60						.0000001	.0000003	.0000009
61							.0000001	.0000003
62								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999965	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
19	.9999896	.9999955	.9999982	.9999993	.9999997	.9999999	1.0000000	1.0000000
20	.9999707	.9999870	.9999944	.9999977	.9999991	.9999996	.9999999	.9999999
21	.9999830	.9999644	.9999841	.9999931	.9999971	.9999988	.9999995	.9999998
22	.9998093	.9999084	.9999574	.9999808	.9999916	.9999965	.9999985	.9999994
23	.9995544	.9997775	.9998923	.9999495	.9999771	.9999899	.9999957	.9999982
24	.9990151	.9994889	.9997430	.9998748	.9999410	.9999730	.9999881	.9999949
25	.9979378	.9988882	.9994198	.9997061	.9998560	.9999317	.9999687	.9999861
26	.9959015	.9977049	.9987547	.9993454	.9996668	.9998359	.9999218	.9999639
27	.9928549	.9954969	.9974629	.9986152	.9992681	.9996255	.9998146	.9999118
28	.9880605	.9918885	.9950807	.9972127	.9984705	.9991175	.9995883	.9997923
29	.9760678	.9850183	.9909090	.9946546	.9969556	.9983112	.9991041	.9995376
30	.9607489	.9748185	.9839637	.9902189	.9943204	.9966588	.9981683	.9990185
31	.9383789	.9585818	.9739609	.9829000	.9895207	.9937797	.9964255	.9980124
32	.9078968	.9354869	.9563608	.9713989	.9818302	.9888166	.9933345	.9961349
33	.8661888	.9035860	.9284976	.9541728	.9698358	.9807574	.9881093	.9928865
34	.8141003	.8614784	.8897436	.9295642	.9519920	.9682750	.9796844	.9874010
35	.7513672	.8086669	.8368791	.8960116	.9266396	.9498235	.9667199	.9786144
36	.6791854	.7458938	.7738931	.8523849	.8923117	.9237765	.9476680	.9651736
37	.5996301	.6786319	.7032876	.7979764	.8474156	.8886452	.9209175	.9455895
38	.5160388	.6099956	.6268078	.7333499	.7927147	.8433509	.8850136	.9180849
39	.4319886	.5435893	.5464136	.6598466	.7294637	.7875055	.8389305	.8814180
40	.3510468	.4830416	.4650663	.5798853	.6595430	.7216366	.7823468	.8345330
41	.2768806	.3435447	.4197553	.4966418	.5734068	.6478908	.7158604	.7778333
42	.2108935	.2717985	.3400448	.4136672	.4902487	.5669664	.6410886	.7101307
43	.1534904	.2069837	.2670268	.3345418	.4076318	.4838803	.5605605	.6349145
44	.1107834	.1503518	.2029760	.2623329	.3290311	.4015813	.4775897	.5541817
45	.0760778	.1083191	.1491661	.1989626	.2574140	.3233061	.3955315	.4711905
46	.0503966	.0743081	.1058664	.1459360	.1949118	.2525675	.3179684	.3894761
47	.0321689	.0491440	.0734917	.1053666	.1426620	.1908229	.2476908	.3134077

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 92

x	.41	.42	.43	.44	.45	.46	.47	.48
48	.0197616	.0313095	.0478500	.0706308	.1004217	.1393448	.1866951	.2427813
49	.0116824	.0192020	.0304224	.0465174	.0687283	.0982338	.1359853	.1825376
50	.0066409	.0115291	.0186168	.0295045	.0451494	.0667868	.0956048	.1325843
51	.0036879	.0064263	.0109577	.0180086	.0285585	.0437490	.0648000	.0929369
52	.0019037	.0035084	.0061994	.0105700	.0173796	.0275673	.0428189	.0627977
53	.0009590	.0018330	.0033692	.0059618	.0101680	.0167324	.0265937	.0408621
54	.0004635	.0009207	.0017578	.0032292	.0057149	.0097536	.0160692	.0255804
55	.0002148	.0004436	.0008798	.0016786	.0030835	.0054601	.0093847	.0153926
56	.0000954	.0002048	.0004222	.0008368	.0015960	.0029332	.0051988	.0088952
57	.0000406	.0000906	.0001948	.0003998	.0007919	.0015109	.0027791	.0049325
58	.0000165	.0000384	.0000855	.0001829	.0003764	.0007457	.0014330	.0026823
59	.0000064	.0000155	.0000360	.0000801	.0001712	.0003524	.0006986	.0013554
60	.0000024	.0000060	.0000148	.0000335	.0000745	.0001593	.0003280	.0006509
61	.0000009	.0000022	.0000056	.0000134	.0000310	.0000680	.0001472	.0003034
62	.0000003	.0000008	.0000021	.0000051	.0000123	.0000264	.0000631	.0001351
63	.0000001	.0000003	.0000007	.0000019	.0000047	.0000112	.0000258	.0000574
64		.0000001	.0000002	.0000006	.0000017	.0000042	.0000101	.0000233
65			.0000001	.0000002	.0000006	.0000015	.0000037	.0000090
66				.0000001	.0000002	.0000005	.0000013	.0000033
67					.0000001	.0000002	.0000004	.0000011
68						.0000001	.0000001	.0000004
69								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	.9999999	1.0000000
22	.9999998	.9999999
23	.9999993	.9999997
24	.9999979	.9999992
25	.9999940	.9999975
26	.9999839	.9999931
27	.9999589	.9999816
28	.9999008	.9999537
29	.9997692	.9998887
30	.9994915	.9997455
31	.9989318	.9994445
32	.9978545	.9988437
33	.9958825	.9976954
34	.9924377	.9956095
35	.9866943	.9919899
36	.9775500	.9859915
37	.9636393	.9764942
38	.9434109	.9621199
39	.9158810	.9413149
40	.8778594	.9125081
41	.8302203	.8743389
42	.7731694	.8259894
43	.7074433	.7671463
44	.6387803	.6987939
45	.5678235	.6224741
46	.4968561	.5414797
47	.4284095	.4585803
48	.3646217	.3771259
49	.3078364	.3012061
50	.2583197	.2328537
51	.2151486	.1740706
52	.1780319	.1256611
53	.1467555	.0874919
54	.1203816	.0586851
55	.0985508	.0378801
56	.0147049	.0235058
57	.0084551	.0140085
58	.0046686	.0080101
59	.0024638	.0043905
60	.0012464	.0023046
61	.0006031	.0011873
62	.0002766	.0005555
63	.0001230	.0002545
64	.0000518	.0001113
65	.0000208	.0000463
66	.0000079	.0000184
67	.0000029	.0000069
68	.0000010	.0000025
69	.0000003	.0000008
70	.0000001	.0000003
71		.0000001

AMCP 706-109

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 93

c \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.6078890	.8472346	.9411466	.9775496	.9915220	.9968318	.9988880	.9995718
2	.2383706	.5578921	.7710674	.8905548	.9500242	.9780809	.9906843	.9961034
3	.0669657	.2851011	.5210371	.7238129	.8495559	.9227905	.9628199	.9823232
4	.0144453	.1166020	.3051035	.5130706	.6891593	.8158551	.9073684	.9456445
5	.0025088	.0398899	.1478817	.3154996	.4998158	.6822777	.7875391	.8740598
6	.0003636	.0111233	.0613387	.1689678	.3812688	.4877076	.6403915	.7638592
7	.0000447	.0027105	.0220675	.0794206	.2839068	.3244351	.4779491	.6219483
8	.0000048	.0005766	.0069759	.0330479	.0940584	.1948455	.3259867	.4692878
9	.0000005	.0001085	.0019584	.0122768	.0432141	.1059250	.2030280	.3244661
10		.0000182	.0004928	.0041030	.0179436	.0523204	.1156200	.2092827
11		.0000028	.0001120	.0018428	.0067714	.0235792	.0603556	.1235841
12		.0000004	.0000232	.0003487	.0023346	.0097367	.0289689	.0673943
13			.0000044	.0000867	.0007389	.0036991	.0128856	.0340068
14			.0000008	.0000202	.0002156	.0012978	.0052346	.0159163
15			.0000001	.0000043	.0000588	.0004220	.0019983	.0069875
16				.0000009	.0000146	.0001276	.0007074	.0028109
17				.0000002	.0000034	.0000360	.0002338	.0010658
18					.0000007	.0000095	.0000723	.0003785
19					.0000002	.0000023	.0000210	.0001362
20						.0000005	.0000057	.0000395
21						.0000001	.0000015	.0000117
22							.0000004	.0000033
23							.0000001	.0000009
24								.0000002
25								.0000001

c \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9998448	.9999445	.9999804	.9999931	.9999976	.9999992	.9999997	.9999999
2	.9984175	.9993706	.9997585	.9999060	.9999647	.9999869	.9999938	.9999983
3	.9910238	.9964376	.9987467	.9953596	.9987380	.9998951	.9999589	.9999842
4	.9734406	.9865524	.9956574	.9870994	.9967106	.9994418	.9997643	.9999020
5	.9290918	.9618393	.9808728	.9701647	.9952566	.9977814	.9989916	.9995539
6	.8527753	.9129624	.9508248	.9733324	.9860695	.9929700	.9965645	.9983710
7	.7420744	.8333110	.8974444	.9196677	.9659356	.9814825	.9902827	.9950665
8	.6060010	.7331163	.8154460	.8826126	.9385430	.9582402	.9765048	.9878435
9	.4613295	.5919337	.7064987	.7989749	.8984807	.9175661	.9503473	.9718949
10	.3261968	.4540631	.5793255	.6912598	.8437173	.8550311	.9068049	.9424084
11	.2139327	.3253838	.4472939	.5678771	.6773247	.7695181	.8428300	.8963021
12	.1301558	.2175012	.3241634	.4409254	.5573609	.6644800	.7568453	.8300367
13	.0735365	.1355903	.2201731	.3326295	.4348075	.5476352	.6525578	.7437664
14	.0386461	.0780838	.1440882	.2331194	.3208466	.4321101	.5365405	.6414235
15	.0189279	.0428780	.0895271	.1547998	.2334778	.3188700	.4235011	.5300001
16	.0086571	.0218086	.0467101	.0975521	.1668494	.2343470	.3167291	.4188390
17	.0037051	.0103960	.0245209	.0501601	.0910296	.1493331	.2248049	.3144534
18	.0014869	.0046523	.0121003	.0270651	.0532502	.0940219	.1513292	.2249129
19	.0005605	.0019578	.0056277	.0137660	.0294150	.0560044	.0965825	.1529015
20	.0001988	.0007760	.0024650	.0066104	.0153561	.0315745	.0594464	.0987576
21	.0000665	.0002901	.0010201	.0029991	.0075033	.0168598	.0335457	.0605990
22	.0000210	.0001035	.0003949	.0012872	.0035459	.0085329	.0182704	.0353330
23	.0000063	.0000342	.0001477	.0005233	.0015715	.0040965	.0094404	.0195828
24	.0000018	.0000108	.0000518	.0002017	.0006607	.0018671	.0046425	.0103818
25	.0000005	.0000033	.0000172	.0000738	.0002638	.0008086	.0021489	.0051768
26	.0000001	.0000009	.0000054	.0000256	.0001001	.0003330	.0009641	.0024720
27		.0000003	.0000016	.0000085	.0000361	.0001305	.0004081	.0011245
28		.0000001	.0000005	.0000027	.0000134	.0000487	.0001646	.0004876
29			.0000001	.0000008	.0000041	.0000173	.0000633	.0002017
30				.0000002	.0000013	.0000059	.0000232	.0000794
31				.0000001	.0000004	.0000019	.0000081	.0000300
32					.0000001	.0000006	.0000027	.0000108
33						.0000002	.0000009	.0000037
34							.0000003	.0000013
35							.0000001	.0000004
36								.0000001

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999941	.9999978	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
4	.9999609	.9999846	.9999940	.9999977	.9999992	.9999997	.9999999	1.0000000
5	.9998077	.9999191	.9999668	.9999867	.9999948	.9999980	.9999992	.9999997
6	.9992494	.9996634	.9998530	.9999374	.9999740	.9999894	.9999958	.9999984
7	.9975722	.9988401	.9994614	.9997566	.9998929	.9999541	.9999808	.9999928
8	.9933027	.9965941	.9983198	.9991950	.9996250	.9998300	.9999250	.9999677
9	.9839081	.9912940	.9954412	.9976855	.9988594	.9994539	.9997457	.9998848
10	.9657177	.9803061	.9890641	.9941216	.9969374	.9984519	.9992400	.9996374
11	.9344316	.9600454	.9764988	.9866373	.9926458	.9960780	.9979712	.9989818
12	.8860804	.9264871	.9542592	.9725193	.9840379	.9910259	.9951116	.9974177
13	.8184081	.8761498	.9186118	.9484010	.9684019	.9812887	.9892747	.9940436
14	.7320460	.8073019	.8663117	.9104320	.9435044	.9641766	.9784115	.9874052
15	.6309681	.7209421	.7966774	.8571621	.9031664	.9365967	.9598694	.9754859
16	.5219339	.6211019	.7104048	.7864968	.8480932	.8956276	.9306997	.9555024
17	.4130639	.5142606	.6117504	.7003733	.7767246	.8392950	.8862237	.9248306
18	.3120640	.4080325	.5069346	.6028512	.6907954	.7673266	.8307562	.8803525
19	.2217201	.3095771	.4031252	.4998112	.5943516	.6816251	.7582791	.8224448
20	.1541088	.2242660	.3070058	.3983357	.4931530	.5862062	.6728825	.7455480
21	.1005868	.1549768	.2335830	.3043591	.3936198	.4866280	.5783764	.6643524
22	.0624839	.1021045	.1555601	.2226976	.3016460	.3889952	.4803089	.5708284
23	.0369428	.0641209	.1033405	.1558837	.2216330	.2988726	.3844413	.4741731
24	.0207940	.0383822	.0655283	.1043208	.1559739	.2204046	.2960439	.3794487
25	.0111469	.0219032	.0396588	.0667328	.1050680	.1558830	.2190310	.2931641
26	.0056934	.0119193	.0229107	.0407803	.0677109	.1056020	.1555404	.2175844
27	.0027730	.0061875	.0126359	.0239178	.0417544	.0685333	.1059403	.1550587
28	.0012872	.0030653	.0066553	.0132948	.0246247	.0425087	.0691757	.1060984

$$P(c,n,p) = \sum_{i=0}^{c} \binom{n}{i} p^i (1-p)^{n-i}$$

n \ p	.17	.18	.19	.20	.21	.22	.23	.24
29	.0005704	.0014498	.0033485	.0070937	.0138947	.0253398	.0432904	.0696586
30	.0002413	.0006549	.0016100	.0036190	.0075005	.0144383	.0259601	.0436664
31	.0000975	.0002827	.0007400	.0017658	.0038745	.0078740	.0149167	.0264907
32	.0000377	.0001167	.0003252	.0008243	.0019156	.0041130	.0082130	.0151395
33	.0000139	.0000460	.0001367	.0003682	.0009067	.0020570	.0043333	.0080167
34	.0000049	.0000174	.0000550	.0001574	.0004110	.0009868	.0021911	.0043340
35	.0000017	.0000063	.0000213	.0000645	.0001784	.0004529	.0010820	.0021146
36	.0000005	.0000022	.0000078	.0000253	.0000742	.0001993	.0004934	.0011331
37	.0000002	.0000007	.0000028	.0000095	.0000296	.0000841	.0002198	.0005350
38		.0000002	.0000009	.0000034	.0000113	.0000340	.0000939	.0002396
39		.0000001	.0000003	.0000012	.0000041	.0000138	.0000385	.0001035
40			.0000001	.0000004	.0000015	.0000049	.0000151	.0000439
41				.0000001	.0000005	.0000017	.0000057	.0000171
42					.0000002	.0000006	.0000021	.0000065
43						.0000002	.0000007	.0000024
44						.0000001	.0000002	.0000008
45							.0000001	.0000003
46								.0000001

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999969	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
8	.9999865	.9999945	.9999978	.9999991	.9999997	.9999999	1.0000000	1.0000000
9	.9999492	.9999782	.9999909	.9999963	.9999985	.9999994	.9999998	.9999999
10	.9998318	.9999240	.9999666	.9999857	.9999940	.9999976	.9999990	.9999996
11	.9995030	.9997643	.9998913	.9999512	.9999787	.9999909	.9999963	.9999985
12	.9986768	.9993409	.9996812	.9998501	.9999314	.9999695	.9999868	.9999944
13	.9967988	.9981243	.9991500	.9995812	.9997995	.9999067	.9999578	.9999814
14	.9926811	.9960988	.9979260	.9990259	.9994637	.9997389	.9998765	.9999432
15	.9854303	.9916306	.9953389	.9974820	.9986799	.9993881	.9996479	.9998405
16	.9733501	.9833624	.9903996	.9945167	.9939239	.9984009	.9991743	.9995860
17	.9510946	.9692002	.9819131	.9884955	.9936367	.9966635	.9980031	.9990028
18	.9190031	.9466624	.9659910	.9784258	.9874038	.9927038	.9956931	.9977577
19	.8758373	.9132279	.9402195	.9607354	.9767147	.9858978	.9917197	.9952851
20	.8144085	.8668572	.9075133	.9377774	.9594451	.9743855	.9843184	.9906919
21	.7411131	.8065753	.8600103	.9014656	.9333461	.9561303	.9730151	.9836944
22	.6561834	.7339491	.7989531	.8533131	.8962894	.9289338	.9538008	.9696117
23	.5635389	.6498881	.7250363	.7915304	.8467538	.8907880	.9245474	.9494624
24	.4681969	.5564641	.6406415	.7171554	.7842960	.8403319	.8853439	.9201929
25	.3758091	.4683653	.5495993	.6332216	.7098891	.7772392	.8340183	.8800184
26	.2902363	.3711148	.4566613	.5429180	.6260084	.7026214	.7703498	.8278389
27	.2158959	.2872631	.3667593	.4510708	.5364024	.6189838	.6955378	.7636100
28	.1544044	.2141551	.2842465	.3624361	.4455810	.5300360	.6101316	.6886836
29	.1060897	.1536081	.2123102	.2811081	.3581403	.4401805	.5238042	.6054366
30	.0699986	.1059367	.1526747	.2103683	.2780890	.3538661	.4348589	.5174917
31	.0443834	.0701871	.1056199	.1516140	.2083354	.2749501	.3496089	.4296067
32	.0269347	.0446677	.0703508	.1051798	.1504345	.2062168	.2717719	.3453641
33	.0157045	.0278955	.0449050	.0701917	.1046138	.1491436	.2040171	.2665347
34	.0087848	.0160189	.0275764	.0450411	.0700175	.1039998	.1477481	.2017401
35	.0047144	.0090173	.0162661	.0277807	.0450811	.0697345	.1031359	.1462539
36	.0024273	.0048739	.0092142	.0164656	.0279116	.0450301	.0693489	.1022380
37	.0011990	.0025285	.0050181	.0093762	.0166130	.0277723	.0448927	.0688664
38	.0005683	.0012590	.0026178	.0051289	.0095036	.0167102	.0279659	.0446734
39	.0002584	.0006017	.0013128	.0026948	.0052342	.0097773	.0167589	.0278955
40	.0001128	.0002760	.0006320	.0013598	.0027592	.0056983	.0096582	.0167609
41	.0000473	.0001215	.0002928	.0006590	.0014000	.0030110	.0053514	.0096871
42	.0000190	.0000513	.0001296	.0003067	.0006883	.0014331	.0028502	.0053810
43	.0000073	.0000208	.0000552	.0001370	.0003194	.0007019	.0014589	.0028769
44	.0000027	.0000081	.0000226	.0000588	.0001436	.0003308	.0007175	.0014775
45	.0000010	.0000030	.0000089	.0000242	.0000620	.0001498	.0003390	.0007298
46	.0000003	.0000011	.0000033	.0000096	.0000257	.0000648	.0001539	.0003458
47	.0000001	.0000004	.0000012	.0000036	.0000102	.0000270	.0000671	.0001575
48		.0000001	.0000004	.0000013	.0000039	.0000108	.0000281	.0000689
49			.0000001	.0000005	.0000014	.0000041	.0000113	.0000289
50				.0000002	.0000005	.0000015	.0000043	.0000117
51					.0000002	.0000005	.0000016	.0000045
52					.0000001	.0000002	.0000006	.0000017
53						.0000001	.0000002	.0000006
54							.0000001	.0000003
55								.0000001

n \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999977	.9999991	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999880	.9999947	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000
14	.9999746	.9999890	.9999953	.9999981	.9999992	.9999997	.9999999	1.0000000
15	.9999254	.9999663	.9999852	.9999936	.9999974	.9999989	.9999996	.9999998
16	.9997905	.9999047	.9999568	.9999805	.9999915	.9999964	.9999985	.9999994

$$I_x(n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 33$$

x	.33	.34	.35	.36	.37	.38	.39	.40
17	.9994938	.9997501	.9998804	.9999444	.9999749	.9999890	.9999953	.9999981
18	.9998188	.9999093	.9999593	.9999824	.9999926	.9999969	.9999986	.9999994
19	.9973859	.9998046	.9999746	.9999940	.9999982	.9999993	.9999998	.9999999
20	.9946488	.9997088	.9998803	.9999491	.9999844	.9999957	.9999988	.9999996
21	.9896241	.9995674	.9998585	.9999399	.9999834	.9999955	.9999987	.9999996
22	.9810388	.9993528	.9997636	.9999165	.9999770	.9999938	.9999984	.9999996
23	.9671887	.9989380	.9995064	.9998316	.9999557	.9999886	.9999971	.9999993
24	.9461053	.9982647	.9990174	.9996655	.9999154	.9999787	.9999945	.9999986
25	.9158749	.9971839	.9981758	.9993741	.9998450	.9999613	.9999902	.9999975
26	.8747584	.9955974	.9967974	.9988087	.9997190	.9998404	.9999583	.9999895
27	.8217744	.9931659	.9945639	.9978711	.9995409	.9997810	.9999244	.9999794
28	.7570347	.9895353	.9910553	.9963169	.9992669	.9996767	.9998767	.9999639
29	.6813673	.9845910	.9861002	.9939388	.9988316	.9994805	.9997990	.9999394
30	.5988853	.9779547	.9793747	.9904755	.9980796	.9991511	.9996024	.9998964
31	.5116923	.9694451	.9687810	.9854899	.9966509	.9984055	.9992155	.9997845
32	.4244153	.9587888	.9561644	.9784399	.9939167	.9968841	.9984806	.9995329
33	.3411877	.9459767	.9399730	.9690784	.9891938	.9939531	.9969207	.9990820
34	.2659866	.9312956	.9214035	.9571701	.9815701	.9889354	.9939469	.9981466
35	.1993093	.9148036	.9006640	.9426870	.9699670	.9807753	.9884316	.9961926
36	.1446660	.8965695	.8779695	.9255957	.9534885	.9685596	.9784396	.9914890
37	.1010417	.8767899	.8535776	.9059224	.9311884	.9513092	.9628554	.9830109
38	.0689994	.8555535	.8277800	.8836780	.9021814	.9279375	.9405336	.9695971
39	.0443763	.8329756	.8008751	.8589751	.8655010	.8974276	.9104178	.9499705
40	.0277640	.8091640	.7730854	.8319714	.8206885	.8586179	.8719934	.9233934
41	.0167181	.7842744	.7446645	.8028679	.7636788	.8104754	.8243736	.8893939
42	.0096853	.7584385	.7158994	.7719571	.6951731	.7519550	.7668661	.8481698
43	.0053966	.7317537	.6870060	.7394317	.6172068	.6842081	.6993661	.7998774
44	.0028933	.7043897	.6581937	.7055404	.5324568	.6088567	.6257763	.7447071
45	.0014890	.6765356	.6296648	.6705584	.4441377	.5282893	.5471700	.6830811
46	.0007370	.6483934	.6016843	.6347806	.3568779	.4463999	.4681939	.6152497
47	.0003504	.6201469	.5744909	.5985599	.2760599	.3672554	.3936497	.5416035
48	.0001601	.5919510	.5482705	.5621384	.2076384	.2951089	.3274943	.4624365
49	.0000708	.5639161	.5232519	.5257362	.1551189	.2327909	.2705905	.3791113
50	.0000296	.5361710	.4995210	.4894153	.1192519	.1814446	.2227396	.2949836
51	.0000119	.5088100	.4771717	.4534614	.0991464	.1407183	.1814170	.2186794
52	.0000046	.4818121	.4561301	.4179711	.0901598	.1093430	.1467040	.1553848
53	.0000017	.4552047	.4363188	.3830300	.0880704	.0851572	.1183569	.1066867
54	.0000006	.4290018	.4176447	.3486102	.0880297	.0660692	.0951538	.0713871
55	.0000002	.4032006	.3999918	.3146947	.0877180	.0508298	.0760675	.0491492
56	.0000001	.0000008	.0000006	.0000018	.0000047	.0000118	.0000284	.0000655
57		.0000001	.0000003	.0000006	.0000017	.0000046	.0000115	.0000278
58			.0000001	.0000002	.0000006	.0000017	.0000044	.0000125
59				.0000001	.0000002	.0000006	.0000014	.0000043
60					.0000001	.0000002	.0000006	.0000016
61						.0000001	.0000002	.0000006
62							.0000001	.0000002
63								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999975	.9999990	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
19	.9999904	.9999968	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000
20	.9999705	.9999906	.9999960	.9999984	.9999994	.9999998	.9999999	1.0000000
21	.9999436	.9999719	.9999885	.9999951	.9999980	.9999992	.9999997	.9999999
22	.9998560	.9999319	.9999684	.9999862	.9999941	.9999975	.9999990	.9999996
23	.9996508	.9998325	.9999203	.9999633	.9999836	.9999919	.9999971	.9999988
24	.9993368	.9996101	.9998072	.9999077	.9999572	.9999808	.9999917	.9999965
25	.9988795	.9991405	.9995584	.9997803	.9998948	.9999507	.9999778	.9999903
26	.9981364	.9982019	.9990404	.9995041	.9997519	.9998799	.9999436	.9999746
27	.9967500	.9964343	.9980183	.9988365	.9994475	.9997323	.9998650	.9999365
28	.9940008	.9932100	.9961051	.9970290	.9988294	.9993890	.9996915	.9998494
29	.9891648	.9877778	.9927029	.9957802	.9976373	.9987197	.9993289	.9996599
30	.9670261	.9789584	.9869502	.9921706	.9954513	.9974419	.9986081	.9993677
31	.9475481	.9653576	.9776901	.9861203	.9916355	.9951197	.9972446	.9984953
32	.9300405	.9451392	.9634985	.9744594	.9858909	.9910996	.9947878	.9970465
33	.9130048	.9169127	.9437528	.9561753	.9753333	.9844646	.9905651	.9944554
34	.8954295	.8891300	.9170035	.9283990	.9600221	.9740169	.9836441	.9894341
35	.8770878	.8588478	.8753108	.8910744	.9380595	.9583139	.9728138	.9808320
36	.8087445	.8219103	.8263351	.8715471	.9077682	.9357501	.9566884	.9716858
37	.8333205	.7831496	.7668099	.8218898	.8678308	.9046056	.9334708	.9549587
38	.8503145	.7436438	.6976321	.7617833	.8175101	.8641863	.9018884	.9318563
39	.4664277	.5445852	.6207252	.6921864	.7568267	.8131944	.8605894	.8990181
40	.3848178	.4609904	.5389057	.6150690	.6868073	.7519361	.8089410	.8570486
41	.3070939	.3792694	.4555790	.5332694	.6094677	.6814896	.7471889	.8047488
42	.2378130	.3007719	.3743303	.4501872	.5276696	.6039154	.6762888	.7423409
43	.1788057	.2311879	.2984246	.3693658	.4448091	.5220999	.5984059	.6710183
44	.1290773	.1752838	.2305178	.2940488	.3644011	.4394388	.5165548	.5949734
45	.0903817	.1326126	.1733043	.2268015	.2896417	.3594817	.4340707	.5110868
46	.0609257	.0985927	.1244853	.1692677	.2230378	.2852002	.3544831	.4286990

$$S(n,n;p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 95

x	.41	.42	.43	.44	.45	.46	.47	.48
47	.0396387	.0507129	.0648428	.1820978	.1441744	.1199854	.0807813	.2494006
48	.0246461	.0318000	.0404459	.0850346	.1196498	.1630947	.0953831	.1876090
49	.0149949	.0192870	.0247616	.0371273	.0832703	.1171448	.1098.89	.0114494
50	.0087079	.0114357	.0148935	.0369902	.0587449	.0813424	.1145838	.1568891
51	.0049638	.0064855	.0084511	.0230468	.0360844	.0543464	.0792031	.1119676
52	.0028104	.0037504	.0048451	.0139430	.0254101	.0350217	.0543893	.0772645
53	.0015463	.0020968	.0027868	.0079694	.0174157	.0237846	.0367946	.0513918
54	.0008684	.0011839	.0015907	.0044516	.0117188	.0159538	.0248158	.0348256
55	.0004168	.0006440	.0008573	.0029608	.0078677	.0107361	.0167468	.0234868
56	.0001444	.0003031	.0004190	.0013078	.0052654	.0071396	.0111801	.0158140
57	.0000631	.0001396	.0001938	.0008220	.0035130	.0047661	.0074164	.0106346
58	.0000264	.0000603	.0000838	.0005160	.0023454	.0031977	.0049408	.0071318
59	.0000106	.0000251	.0000373	.0003253	.0015634	.0021333	.0032394	.0047831
60	.0000041	.0000100	.0000158	.0002040	.0010400	.0014181	.0021081	.0031793
61	.0000015	.0000038	.0000064	.0001282	.0006906	.0009394	.0013799	.0020940
62	.0000005	.0000014	.0000026	.0000803	.0004581	.0006191	.0009026	.0013758
63	.0000002	.0000005	.0000010	.0000503	.0003037	.0004071	.0005901	.0009017
64	.0000001	.0000002	.0000004	.0000315	.0002013	.0002674	.0003855	.0005906
65		.0000001	.0000001	.0000197	.0001334	.0001755	.0002517	.0003865
66				.0000123	.0000884	.0001151	.0001643	.0002528
67				.0000077	.0000586	.0000755	.0001072	.0001652
68				.0000048	.0000388	.0000495	.0000699	.0001079
69				.0000030	.0000257	.0000324	.0000455	.0000704
70				.0000018	.0000170	.0000212	.0000296	.0000459

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	.9999999	.9999999
23	.9999991	.9999998
24	.9999964	.9999994
25	.9999859	.9999983
26	.9999604	.9999953
27	.9999712	.9999874
28	.9999290	.9999677
29	.9998334	.9999218
30	.9996276	.9998171
31	.9990958	.9995950
32	.9980881	.9991436
33	.9964488	.9983691
34	.9941854	.9966525
35	.9895086	.9937997
36	.9820307	.9889907
37	.9704555	.9818489
38	.9533204	.9693071
39	.9290646	.9517174
40	.8961960	.9269115
41	.8535635	.8934235
42	.8006143	.8501348
43	.7376240	.7965378
44	.6658351	.7329701
45	.5874923	.6607340
46	.5065103	.5820769
47	.4273183	.5000000
48	.3543407	.4179231
49	.2916598	.3392660
50	.2074889	.2670899
51	.1533394	.2034638
52	.1092901	.1498658
53	.0751990	.1065765
54	.0498548	.0730065
55	.0318176	.0482926
56	.0195091	.0306939
57	.0115175	.0187571
58	.0065309	.0110093
59	.0035418	.0062003
60	.0018489	.0033475
61	.0009183	.0017309
62	.0004377	.0008564
63	.0001994	.0004050
64	.0000867	.0001839
65	.0000360	.0000788
66	.0000148	.0000323
67	.0000053	.0000126
68	.0000019	.0000047
69	.0000006	.0000017
70	.0000002	.0000006
71	.0000001	.0000002
72		.0000001

$$\Pi(n,p,\ldots) = \sum_{r=0}^{n} \binom{n}{r} p^r \ldots$$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.6111[illegible]61	.[illegible]5008[illegible]9	.[illegible]24P81[illegible]8	.[illegible]97[illegible]4476	.[illegible]9914459	.[illegible]9970[illegible]14	.[illegible]9[illegible]8[illegible]101	.[illegible]9996[illegible]54
2	.[illegible]8[illegible]8[illegible]477	.56[illegible]50009	.[illegible]7769[illegible]48	.[illegible]8940140	.[illegible]9[illegible]3[illegible]0991	.[illegible]9791495	.[illegible]9911[illegible]86	.[illegible]9963[illegible]08
3	.[illegible]8[illegible]4[illegible]7[illegible]08	.[illegible]9[illegible]9[illegible]5449	.[illegible]5[illegible]8[illegible]8[illegible]80	.7304[illegible]826	.[illegible]8[illegible]45794	.[illegible]9[illegible]61041	.[illegible]964[illegible]088	.[illegible]9[illegible]33419
4	.[illegible]9[illegible]467[illegible]5	.[illegible]1[illegible]9[illegible]7[illegible]80	.[illegible]3[illegible]1[illegible]8[illegible]15	.[illegible]5[illegible]8[illegible]5[illegible]61	.[illegible]8[illegible]271791	.[illegible]8[illegible]P[illegible]8[illegible]715	.[illegible]9[illegible]19[illegible]000	.[illegible]94[illegible]5715
5	.[illegible]8[illegible]8[illegible]8[illegible]8	.[illegible]8[illegible]407[illegible]74	.[illegible]1[illegible]5[illegible]8[illegible]04	.[illegible]3[illegible]8[illegible]34[illegible]84	.[illegible]50[illegible]7[illegible]10	.[illegible]8[illegible]7[illegible]4[illegible]21	.[illegible]795[illegible]8[illegible]8	.[illegible]8[illegible]7[illegible]7[illegible]4[illegible]4
6	.[illegible]0[illegible]3[illegible]R41	.[illegible]116[illegible]855	.[illegible]8[illegible][illegible]9[illegible]253	.[illegible]174[illegible]H[illegible]91	.[illegible]33[illegible]1661	.[illegible]4[illegible]0[illegible]2570	.[illegible]6506[illegible]19	.[illegible]7[illegible]2[illegible]1[illegible]0[illegible]13
7	.[illegible]0[illegible]0[illegible]479	.[illegible]00[illegible][illegible]87[illegible]7	.[illegible]08[illegible]8[illegible]453	.[illegible]0830[illegible]85	.[illegible]1[illegible]907[illegible]43	.[illegible]3[illegible][illegible]8[illegible]361	.[illegible]4[illegible]93[illegible]800	.[illegible]6[illegible]3[illegible]3[illegible]5[illegible]58
8	.[illegible]0[illegible]0[illegible]05[illegible]	.[illegible]000[illegible]193	.[illegible]00[illegible]7[illegible]2[illegible]07	.[illegible]0[illegible]3[illegible]4[illegible]00[illegible]H	.[illegible]09[illegible]5451	.[illegible]80[illegible]26[illegible]09	.[illegible]1366[illegible]41	.[illegible]40[illegible]1[illegible]44[illegible]8
9	.[illegible]0[illegible]0[illegible]0[illegible]05	.[illegible]0001[illegible]78	.[illegible]00[illegible][illegible]1[illegible]09	.[illegible]01[illegible]1[illegible]1077	.[illegible]04[illegible]57[illegible]60	.[illegible]111[illegible]6[illegible]08	.[illegible]811[illegible]351	.[illegible]33[illegible]78[illegible]70
10		.[illegible]0000[illegible]00	.[illegible]0005[illegible]67	.[illegible]00[illegible]4[illegible]100	.[illegible]019[illegible]078	.[illegible]0[illegible]55[illegible]367	.[illegible]1[illegible]217[illegible]86	.[illegible]8[illegible]1[illegible]8[illegible]60[illegible]P
11		.[illegible]0000011	.[illegible]0001[illegible]34	.[illegible]0013[illegible]566	.[illegible]0073[illegible]00	.[illegible]0[illegible]53037	.[illegible]064[illegible]841	.[illegible]1304[illegible]59
12		.[illegible]0000004	.[illegible]0000[illegible]R8	.[illegible]0003[illegible]787	.[illegible]0085[illegible]64	.[illegible]01[illegible]8[illegible]471	.[illegible]0[illegible]11[illegible]660	.[illegible]071[illegible]895
13		.[illegible]0000001	.[illegible]0000[illegible]49	.[illegible]0003[illegible]949	.[illegible]0008[illegible]187	.[illegible]0[illegible]40611	.[illegible]01[illegible]9558	.[illegible]03[illegible]6778
14			.[illegible]0000009	.[illegible]0000[illegible]228	.[illegible]0002[illegible]418	.[illegible]0[illegible]14419	.[illegible]0057[illegible]46	.[illegible]0173635
15			.[illegible]0000001	.[illegible]0000[illegible]80	.[illegible]0000661	.[illegible]0004746	.[illegible]00[illegible]8[illegible]68	.[illegible]0074466
16				.[illegible]0000010	.[illegible]0000[illegible]60	.[illegible]0001451	.[illegible]0007970	.[illegible]0031400
17				.[illegible]0000008	.[illegible]0000040	.[illegible]0000[illegible]15	.[illegible]0008669	.[illegible]0018084
18					.[illegible]0000009	.[illegible]0000111	.[illegible]0000[illegible]36	.[illegible]0004[illegible]38
19					.[illegible]0000008	.[illegible]0000[illegible]80	.[illegible]0000246	.[illegible]0001464
20						.[illegible]0000009	.[illegible]0000[illegible]68	.[illegible]0000465
21						.[illegible]0000001	.[illegible]0000[illegible]18	.[illegible]0000[illegible]27
22							.[illegible]0000004	.[illegible]0000[illegible]49
23							.[illegible]0000001	.[illegible]0000010
24								.[illegible]0000003
25								.[illegible]0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.[illegible]9988[illegible]08	.[illegible]9999500	.[illegible]9999[illegible]086	.[illegible]9999940	.[illegible]9999979	.[illegible]9999[illegible]991	.[illegible]9999[illegible]99H	.[illegible]9995999
2	.[illegible]9[illegible]8[illegible]459	.[illegible]9994[illegible]80	.[illegible]9997[illegible]794	.[illegible]9999[illegible]165	.[illegible]9992[illegible]689	.[illegible]9999[illegible]886	.[illegible]9999[illegible]959	.[illegible]9999[illegible]886
3	.[illegible]9985[illegible]088	.[illegible]9967[illegible]09	.[illegible]99[illegible]86[illegible]110	.[illegible]9994[illegible]852	.[illegible]9995[illegible]675	.[illegible]9999[illegible]080	.[illegible]9999[illegible]643	.[illegible]9999[illegible]86
4	.[illegible]9741[illegible]59	.[illegible]9875[illegible]409	.[illegible]9941[illegible]069	.[illegible]9973[illegible]706	.[illegible]9980[illegible]442	.[illegible]9995[illegible]051	.[illegible]9977[illegible]935	.[illegible]9999[illegible]158
5	.[illegible]9389[illegible]934	.[illegible]9643[illegible]106	.[illegible]9817[illegible]446	.[illegible]9909[illegible]869	.[illegible]9957[illegible]056	.[illegible]9980[illegible]138	.[illegible]9991[illegible]075	.[illegible]9996[illegible]097
6	.[illegible]0596[illegible]430	.[illegible]9178[illegible]501	.[illegible]9540[illegible]640	.[illegible]9755[illegible]531	.[illegible]9878[illegible]610	.[illegible]9935[illegible]436	.[illegible]9969[illegible]8R6	.[illegible]9983[illegible]603
7	.[illegible]7540[illegible]375	.[illegible]8418[illegible]761	.[illegible]9031[illegible]163	.[illegible]9437[illegible]074	.[illegible]9605[illegible]530	.[illegible]9810[illegible]907	.[illegible]9912[illegible]860	.[illegible]9956[illegible]952
8	.[illegible]6[illegible][illegible]8[illegible]476	.[illegible]7341[illegible]15A	.[illegible]8844[illegible]65H	.[illegible]8894[illegible]59B	.[illegible]9534[illegible]048	.[illegible]9614[illegible]941	.[illegible]9785[illegible]715	.[illegible]9849[illegible]58
9	.[illegible]4743[illegible]499	.[illegible]6050[illegible]719	.[illegible]7[illegible]84[illegible]089	.[illegible]8090[illegible]115	.[illegible]8743[illegible]889	.[illegible]9[illegible]38[illegible]605	.[illegible]9548[illegible]80	.[illegible]9737[illegible]870
10	.[illegible]3383[illegible]507	.[illegible]4670[illegible]501	.[illegible]5933[illegible]145	.[illegible]7041[illegible]056	.[illegible]7947[illegible]366	.[illegible]8637[illegible]060	.[illegible]9133[illegible]595	.[illegible]9470[illegible]191
11	.[illegible]R940[illegible]364	.[illegible]33[illegible]2[illegible]517	.[illegible]4618[illegible]174	.[illegible]5806[illegible]430	.[illegible]6911[illegible]557	.[illegible]7814[illegible]900	.[illegible]8519[illegible]183	.[illegible]9036[illegible]791
12	.[illegible]1376[illegible]951	.[illegible]8[illegible]8[illegible]8[illegible]805	.[illegible]3177[illegible]078	.[illegible]4561[illegible]596	.[illegible]5789[illegible]611	.[illegible]6791[illegible]883	.[illegible]7691[illegible]430	.[illegible]8406[illegible]391
13	.[illegible]0786[illegible]300	.[illegible]1417[illegible]814	.[illegible]2316[illegible]103	.[illegible]3360[illegible]250	.[illegible]4500[illegible]081	.[illegible]5659[illegible]935	.[illegible]6681[illegible]109	.[illegible]7575[illegible]865
14	.[illegible]0417[illegible]8A5	.[illegible]0845[illegible]516	.[illegible]1488[illegible]965	.[illegible]2341[illegible]80A	.[illegible]3356[illegible]736	.[illegible]4457[illegible]107	.[illegible]5856[illegible]499	.[illegible]6970[illegible]016
15	.[illegible]0807[illegible]85	.[illegible]0464[illegible]785	.[illegible]0897[illegible]488	.[illegible]1531[illegible]981	.[illegible]2561[illegible]360	.[illegible]3543[illegible]047	.[illegible]4608[illegible]262	.[illegible]5478[illegible]346
16	.[illegible]0095[illegible]015	.[illegible]0[illegible][illegible]4[illegible]155	.[illegible]0[illegible]507600	.[illegible]0941[illegible]01H	.[illegible]1560[illegible]111	.[illegible]2376[illegible]809	.[illegible]3307[illegible]569	.[illegible]4341[illegible]8D1
17	.[illegible]0041[illegible]50H	.[illegible]0113[illegible]378	.[illegible]0269[illegible]670	.[illegible]0546[illegible]471	.[illegible]1092[illegible]850	.[illegible]1898[illegible]350	.[illegible]2838[illegible]935	.[illegible]3910[illegible]591
18	.[illegible]0016[illegible]64	.[illegible]0058[illegible]267	.[illegible]0134[illegible]744	.[illegible]0299[illegible]365	.[illegible]0591[illegible]416	.[illegible]1095[illegible]555	.[illegible]1848[illegible]505	.[illegible]2838[illegible]394
19	.[illegible]0006[illegible]43H	.[illegible]0028[illegible]273	.[illegible]0063[illegible]406	.[illegible]0153[illegible]36	.[illegible]0325[illegible]136	.[illegible]0617[illegible]26A	.[illegible]1047[illegible]945	.[illegible]1644[illegible]213
20	.[illegible]0000[illegible]34	.[illegible]0008[illegible]940	.[illegible]0028[illegible]1[illegible]H	.[illegible]0074[illegible]691	.[illegible]0171[illegible]A1H	.[illegible]0349[illegible]947	.[illegible]0641[illegible]46H	.[illegible]1074[illegible]D0A
21	.[illegible]0000[illegible]784	.[illegible]0003[illegible]147	.[illegible]0011[illegible]705	.[illegible]0034[illegible]385	.[illegible]0085[illegible]938	.[illegible]0189[illegible]190	.[illegible]0378[illegible]D08	.[illegible]0667[illegible]0-4
22	.[illegible]0000[illegible]251	.[illegible]0001[illegible]213	.[illegible]0004[illegible]673	.[illegible]0014[illegible]987	.[illegible]0040[illegible]700	.[illegible]0096[illegible]906	.[illegible]0205[illegible]617	.[illegible]0393[illegible]756
23	.[illegible]0000[illegible]076	.[illegible]0000[illegible]411	.[illegible]0001[illegible]753	.[illegible]0006[illegible]150	.[illegible]0018[illegible]841	.[illegible]0047[illegible]176	.[illegible]0107[illegible]717	.[illegible]0231[illegible]028
24	.[illegible]0000[illegible][illegible]8	.[illegible]0000[illegible]139	.[illegible]0000[illegible]693	.[illegible]0002[illegible]403	.[illegible]0007[illegible]791	.[illegible]0021[illegible]792	.[illegible]0053[illegible]634	.[illegible]0118[illegible]035
25	.[illegible]0000[illegible]0A	.[illegible]0000[illegible]040	.[illegible]0000[illegible]310	.[illegible]0000[illegible]891	.[illegible]0003[illegible]154	.[illegible]0005[illegible]568	.[illegible]0008[illegible]400	.[illegible]0020[illegible]000
26	.[illegible]0000[illegible]009	.[illegible]0000[illegible]018	.[illegible]0000[illegible]067	.[illegible]0000[illegible]314	.[illegible]0001[illegible]214	.[illegible]0003[illegible]996	.[illegible]0011[illegible]448	.[illegible]0034[illegible]4H
27		.[illegible]0000[illegible]003	.[illegible]0000[illegible]021	.[illegible]0000[illegible]105	.[illegible]0000[illegible]445	.[illegible]0001[illegible]489	.[illegible]0004[illegible]915	.[illegible]0013[illegible]401
28		.[illegible]0000[illegible]001	.[illegible]0000[illegible]006	.[illegible]0000[illegible]034	.[illegible]0000[illegible]135	.[illegible]0000[illegible]602	.[illegible]0002[illegible]011	.[illegible]0005[illegible]893
29			.[illegible]0000[illegible]009	.[illegible]0000[illegible]010	.[illegible]0000[illegible]052	.[illegible]0000[illegible]217	.[illegible]0001[illegible]H5	.[illegible]0002[illegible]474
30				.[illegible]0000[illegible]003	.[illegible]0000[illegible]014	.[illegible]0000[illegible]075	.[illegible]0000[illegible]298	.[illegible]0000[illegible]991
31				.[illegible]0000[illegible]001	.[illegible]0000[illegible]006	.[illegible]0000[illegible]025	.[illegible]0000[illegible]104	.[illegible]0000[illegible]379
32					.[illegible]0000[illegible]001	.[illegible]0000[illegible]008	.[illegible]0000[illegible]035	.[illegible]0000[illegible]139
33						.[illegible]0000[illegible]002	.[illegible]0000[illegible]011	.[illegible]0000[illegible]049
34						.[illegible]0000[illegible]001	.[illegible]0000[illegible]004	.[illegible]0000[illegible]016
35							.[illegible]0000[illegible]001	.[illegible]0000[illegible]005
36								.[illegible]0000[illegible]002

N	.17	.18	.19	.20	.21	.22	.23	.24
1	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000
2	.[illegible]9999995	.[illegible]9999998	.[illegible]9999999	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000
3	.[illegible]9999950	.[illegible]9999983	.[illegible]9999993	.[illegible]9999996	.[illegible]9999999	1.[illegible]0000000	1.[illegible]0000000	1.[illegible]0000000
4	.[illegible]9989645	.[illegible]9998869	.[illegible]9999250	.[illegible]9999281	.[illegible]9999991	.[illegible]9999998	.[illegible]9999999	1.[illegible]0000000
5	.[illegible]9918337	.[illegible]9983100	.[illegible]9998790	.[illegible]9998889	.[illegible]9999857	.[illegible]9999984	.[illegible]9999994	.[illegible]9999998
6	.[illegible]9943441	.[illegible]9997094	.[illegible]9999[illegible]46	.[illegible]9999472	.[illegible]9999783	.[illegible]9999913	.[illegible]9999966	.[illegible]9999987
7	.[illegible]9978573	.[illegible]9994883	.[illegible]9998[illegible]8N	.[illegible]9997926	.[illegible]9999099	.[illegible]9999[illegible]1N	.[illegible]9999842	.[illegible]9999936
8	.[illegible]9940285	.[illegible]9986984	.[illegible]9985367	.[illegible]9993073	.[illegible]9996810	.[illegible]9998573	.[illegible]9999378	.[illegible]9999736
9	.[illegible]9915002	.[illegible]9932481	.[illegible]9959888	.[illegible]9978874	.[illegible]9990203	.[illegible]9995366	.[illegible]9997869	.[illegible]9999047
10	.[illegible]9684090	.[illegible]9828839	.[illegible]9908748	.[illegible]9961344	.[illegible]9986723	.[illegible]9993563	.[illegible]9996968	.[illegible]9999[illegible]60
11	.[illegible]9397502	.[illegible]9634923	.[illegible]9788A62	.[illegible]9881342	.[illegible]9955470	.[illegible]9966003	.[illegible]9987631	.[illegible]9991387
12	.[illegible]8943081	.[illegible]9385276	.[illegible]9544447	.[illegible]9755429	.[illegible]9858455	.[illegible]9901374	.[illegible]9957493	.[illegible]9977930
13	.[illegible]8899184	.[illegible]9253105	.[illegible]9253848	.[illegible]9533946	.[illegible]9716855	.[illegible]9834309	.[illegible]9906178	.[illegible]9948335
14	.[illegible]7467875	.[illegible]8104945	.[illegible]8744107	.[illegible]9134548	.[illegible]9479489	.[illegible]9679413	.[illegible]9809100	.[illegible]9889903
15	.[illegible]6481813	.[illegible]7364869	.[illegible]8099460	.[illegible]8678961	.[illegible]9114274	.[illegible]9426643	.[illegible]9641341	.[illegible]9783009
16	.[illegible]5404697	.[illegible]6390731	.[illegible]7247966	.[illegible]8006298	.[illegible]8596586	.[illegible]9046408	.[illegible]9274087	.[illegible]9602840
17	.[illegible]4315718	.[illegible]5334990	.[illegible]6304947	.[illegible]7175980	.[illegible]7917180	.[illegible]8516882	.[illegible]8979932	.[illegible]9321918
18	.[illegible]3892340	.[illegible]4871135	.[illegible]5864406	.[illegible]6923557	.[illegible]7088405	.[illegible]7933418	.[illegible]8439737	.[illegible]8914884
19	.[illegible]3395604	.[illegible]3972991	.[illegible]4838490	.[illegible]5904992	.[illegible]6146040	.[illegible]7004799	.[illegible]7749488	.[illegible]8365035
20	.[illegible]1661077	.[illegible]2396280	.[illegible]3352682	.[illegible]4186428	.[illegible]5144047	.[illegible]6071984	.[illegible]6984775	.[illegible]7670487
21	.[illegible]1096843	.[illegible]1474489	.[illegible]2044331	.[illegible]3011584	.[illegible]4145218	.[illegible]5085352	.[illegible]6000000	.[illegible]6847005
22	.[illegible]0689614	.[illegible]1114215	.[illegible]1684845	.[illegible]2390399	.[illegible]3209405	.[illegible]4104744	.[illegible]5028644	.[illegible]5932748
23	.[illegible]0410644	.[illegible]0790579	.[illegible]1332622	.[illegible]1899465	.[illegible]2584350	.[illegible]3384909	.[illegible]4264909	.[illegible]5073696
24	.[illegible]0235293	.[illegible]0430132	.[illegible]0727196	.[illegible]1146334	.[illegible]1697621	.[illegible]2376626	.[illegible]3163753	.[illegible]4026693
25	.[illegible]0127849	.[illegible]0248604	.[illegible]0445740	.[illegible]0740424	.[illegible]1157583	.[illegible]1700544	.[illegible]2367440	.[illegible]3139924
26	.[illegible]0066205	.[illegible]0137164	.[illegible]0260228H	.[illegible]0458668	.[illegible]0755630	.[illegible]1161571	.[illegible]1701433	.[illegible]2386779
27	.[illegible]0034686	.[illegible]0072192	.[illegible]0145881	.[illegible]0278103	.[illegible]0473071	.[illegible]0766884	.[illegible]11[illegible]3484	.[illegible]1700459
28	.[illegible]0015198	.[illegible]0036275	.[illegible]0077916	.[illegible]0151994	.[illegible]0283235	.[illegible]0483965	.[illegible]0776116	.[illegible]1178474

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 94

x	.17	.18	.19	.20	.21	.22	.23	.24
29	.0006922	.0017406	.0039768	.0083339	.0161484	.0291345	.0492440	.0784042
30	.0002972	.0007980	.0019403	.0043139	.0088433	.0168343	.0299461	.0500566
31	.0001220	.0003497	.0009053	.0021364	.0046359	.0093175	.0174567	.0306608
32	.0000478	.0001465	.0004040	.0010126	.0023269	.0049405	.0097548	.0180158
33	.0000179	.0000587	.0001726	.0004594	.0011186	.0025099	.0052256	.0101542
34	.0000061	.0000225	.0000706	.0001996	.0005151	.0012220	.0026838	.0054899
35	.0000022	.0000083	.0000276	.0000831	.0002272	.0005702	.0013217	.0028473
36	.0000007	.0000029	.0000104	.0000331	.0000961	.0002551	.0006242	.0014167
37	.0000003	.0000010	.0000037	.0000127	.0000389	.0001094	.0002827	.0006763
38	.0000001	.0000003	.0000013	.0000046	.0000151	.0000450	.0001228	.0003098
39		.0000001	.0000004	.0000016	.0000056	.0000178	.0000512	.0001362
40			.0000001	.0000005	.0000020	.0000067	.0000205	.0000574
41				.0000002	.0000007	.0000024	.0000079	.0000233
42				.0000001	.0000002	.0000009	.0000029	.0000090
43					.0000001	.0000003	.0000010	.0000034
44						.0000001	.0000003	.0000012
45							.0000001	.0000004
46								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999995	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999975	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999891	.9999956	.9999983	.9999993	.9999998	.9999999	1.0000000	1.0000000
9	.9999585	.9999824	.9999927	.9999971	.9999989	.9999996	.9999998	.9999999
10	.9998611	.9999381	.9999732	.9999887	.9999953	.9999981	.9999993	.9999997
11	.9995852	.9998059	.9999116	.9999609	.9999832	.9999929	.9999971	.9999989
12	.9988829	.9994510	.9997379	.9998784	.9999451	.9999759	.9999897	.9999957
13	.9973636	.9985886	.9992934	.9996565	.9998377	.9999255	.9999668	.9999856
14	.9938590	.9966774	.9982565	.9991121	.9995611	.9997093	.9999017	.9999555
15	.9872930	.9927923	.9960374	.9978874	.9989072	.9994514	.9997326	.9998734
16	.9756201	.9855121	.9916602	.9953471	.9974829	.9986790	.9993273	.9996675
17	.9564085	.9728824	.9836665	.9904695	.9946103	.9970447	.9984283	.9991890
18	.9270260	.9525223	.9701010	.9817663	.9892270	.9938311	.9965751	.9981560
19	.8851287	.9219209	.9486378	.9672878	.9798209	.9879393	.9930135	.9960763
20	.8292657	.8789136	.9168840	.9447657	.9644533	.9778392	.9866128	.9921617
21	.7594370	.8223486	.8728419	.9116209	.9409148	.9616069	.9758291	.9852536
22	.6774159	.7520219	.8154407	.8669114	.9070358	.9370928	.9587568	.9737981
23	.5866956	.6702999	.7449938	.8088310	.8611191	.9022318	.9333058	.9559104
24	.4920309	.5803384	.6634261	.7381244	.8034088	.8554617	.8975108	.9295552
25	.3986810	.4868310	.5741807	.6567791	.7334671	.7961640	.8499354	.8928742
26	.3115545	.3948200	.4817546	.5683030	.6503338	.7250067	.7900870	.8445364
27	.2344810	.3090645	.3910389	.4767880	.5603881	.6440751	.7187293	.7841687
28	.1697773	.2331632	.3065250	.3872540	.4719182	.5567203	.6379474	.7122118
29	.1181684	.1693503	.2317330	.3039375	.3834981	.4671371	.5511657	.6329565
30	.0790169	.1183238	.1687763	.2301978	.3013039	.3797604	.4624319	.5457714
31	.0507407	.0794794	.1183247	.1680658	.2285639	.2986249	.3760364	.4577945
32	.0312819	.0513027	.0798005	.1181810	.1672257	.2268368	.2959013	.3723217
33	.0185120	.0318123	.0517484	.0799884	.1179014	.1662656	.2250211	.2931337
34	.0105147	.0189464	.0323551	.0520833	.0800503	.1174939	.1651915	.2231208
35	.0057320	.0108361	.0193199	.0326136	.0523127	.0799931	.1169657	.1640095
36	.0029991	.0059512	.0111182	.0196338	.0328908	.0524414	.0798228	.1163231
37	.0015061	.0031383	.0061467	.0113612	.0198896	.0330896	.0524741	.0795453
38	.0007259	.0015891	.0032643	.0063181	.0115653	.0200088	.0332132	.0524151
39	.0003350	.0007726	.0016651	.0033743	.0064652	.0117312	.0202331	.0332644
40	.0001492	.0003607	.0008158	.0017336	.0034741	.0065880	.0118594	.0203240
41	.0000636	.0001617	.0003839	.0008552	.0017942	.0035572	.0066865	.0119507
42	.0000260	.0000696	.0001735	.0004053	.0008905	.0018464	.0036256	.0067610
43	.0000102	.0000288	.0000753	.0001845	.0004247	.0009212	.0018902	.0036792
44	.0000039	.0000114	.0000314	.0000807	.0001946	.0004417	.0009474	.0019253
45	.0000014	.0000043	.0000126	.0000339	.0000857	.0002035	.0004564	.0009687
46	.0000005	.0000016	.0000048	.0000137	.0000362	.0000901	.0002115	.0004685
47	.0000002	.0000006	.0000018	.0000053	.0000147	.0000383	.0000940	.0002178
48	.0000001	.0000002	.0000006	.0000020	.0000057	.0000156	.0000402	.0000972
49		.0000001	.0000002	.0000007	.0000021	.0000061	.0000165	.0000417
50			.0000001	.0000002	.0000008	.0000023	.0000065	.0000172
51				.0000001	.0000003	.0000008	.0000025	.0000068
52					.0000001	.0000003	.0000009	.0000026
53						.0000001	.0000003	.0000009
54							.0000001	.0000003
55								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999983	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999939	.9999975	.9999990	.9999996	.9999999	.9999999	1.0000000	1.0000000
14	.9999804	.9999916	.9999965	.9999986	.9999994	.9999998	.9999999	1.0000000
15	.9999418	.9999740	.9999887	.9999952	.9999981	.9999992	.9999997	.9999999
16	.9998401	.9999257	.9999664	.9999852	.9999937	.9999974	.9999990	.9999996

$$F(c,n,p) = \sum_{x=0}^{c} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 94

x	.33	.34	.35	.36	.37	.38	.39	.40
17	.9995939	.9998027	.9999079	.9999574	.9999811	.9999918	.9999966	.9999986
18	.9999369	.9999120	.9999661	.9999855	.9999470	.9999762	.9999896	.9999956
19	.9999832	.9999714	.9999218	.9999127	.9999815	.9999352	.9999706	.9999871
20	.9999509	.9999515	.9999693	.9999237	.9999606	.9999348	.9999220	.9999643
21	.9999801	.9999815	.9999221	.9999032	.9999180	.9999039	.9999055	.9999074
22	.9999875	.9999726	.9999308	.9999769	.9999302	.9999053	.9999430	.9999738
23	.9999530	.9999601	.9999434	.9999414	.9999175	.9999013	.9999861	.9999781
24	.9999742	.9999701	.9999366	.9999464	.9999363	.9999457	.9999715	.9999810
25	.9999575	.9999539	.9999650	.9999618	.9999353	.9999180	.9999653	.9999640
26	.9999328	.9999542	.9999545	.9999929	.9999605	.9999640	.9999894	.9999823
27	.9999605	.9999566	.9999685	.9999806	.9999488	.9999770	.9999860	.9999530
28	.9999404	.9999537	.9999755	.9999848	.9999548	.9999669	.9999753	.9999804
29	.9999725	.9999741	.9999819	.9999791	.9999633	.9999747	.9999814	.9999805
30	.9999694	.9999704	.9999819	.9999823	.9999665	.9999797	.9999849	.9999860
31	.9999660	.9999743	.9999852	.9999866	.9999875	.9999869	.9999894	.9999933
32	.9999747	.9999788	.9999880	.9999902	.9999913	.9999892	.9999915	.9999930
33	.9999866	.9999886	.9999906	.9999925	.9999943	.9999960	.9999975	.9999986
34	.9999903	.9999922	.9999940	.9999956	.9999970	.9999981	.9999989	.9999995
35	.9999944	.9999958	.9999970	.9999979	.9999986	.9999991	.9999995	.9999997
36	.9999972	.9999980	.9999986	.9999991	.9999994	.9999996	.9999998	.9999999
37	.9999988	.9999992	.9999995	.9999997	.9999998	.9999999	.9999999	1.0000000
38	.9999995	.9999997	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000
39	.9999998	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
40	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
41	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
42	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
43	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
44	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
45	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
46	.0009851	.0019695	.0037523	.0068275	.0118887	.0198479	.0318846	.0490903
47	.0004780	.0009966	.0019786	.0037462	.0067692	.0117803	.0196150	.0313925
48	.0002329	.0004848	.0010032	.0019793	.0037506	.0067304	.0116428	.0193430
49	.0000999	.0002367	.0004890	.0010050	.0019717	.0036998	.0066520	.0114774
50	.0000430	.0001018	.0002290	.0004905	.0010019	.0019561	.0036565	.0065547
51	.0000178	.0000439	.0001031	.0002300	.0004893	.0009942	.0019328	.0036011
52	.0000070	.0000182	.0000445	.0001036	.0002296	.0004856	.0009821	.0019028
53	.0000027	.0000072	.0000185	.0000448	.0001035	.0002278	.0004794	.0009657
54	.0000010	.0000028	.0000074	.0000186	.0000448	.0001026	.0002248	.0004709
55	.0000003	.0000010	.0000028	.0000074	.0000188	.0000444	.0001012	.0002805
56	.0000001	.0000001	.0000010	.0000028	.0000074	.0000184	.0000437	.0000991
57		.0000001	.0000004	.0000010	.0000028	.0000073	.0000181	.0000427
58			.0000001	.0000004	.0000010	.0000028	.0000072	.0000176
59				.0000001	.0000004	.0000010	.0000027	.0000070
60					.0000001	.0000004	.0000010	.0000026
61						.0000001	.0000003	.0000010
62							.0000001	.0000003
63								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999988	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999965	.9999977	.9999991	.9999996	.9999999	1.0000000	1.0000000	1.0000000
20	.9999848	.9999938	.9999978	.9999989	.9999996	.9999998	.9999999	1.0000000
21	.9999873	.9999809	.9999917	.9999965	.9999986	.9999994	.9999998	.9999999
22	.9999816	.9999856	.9999773	.9999901	.9999958	.9999983	.9999993	.9999997
23	.9997397	.9998748	.9999418	.9999734	.9999883	.9999951	.9999980	.9999998
24	.9994095	.9997035	.9998858	.9999322	.9999691	.9999864	.9999942	.9999976
25	.9987308	.9993377	.9996484	.9998364	.9999226	.9999646	.9999843	.9999933
26	.9974101	.9988961	.9994438	.9996856	.9998160	.9999185	.9999590	.9999821
27	.9949744	.9977709	.9984578	.9991868	.9995845	.9997948	.9998920	.9999548
28	.9907116	.9954715	.9964878	.9983168	.9991075	.9995423	.9997730	.9999019
29	.9836115	.9909047	.9941688	.9966820	.9981738	.9990276	.9994993	.9997508
30	.9724130	.9836451	.9894239	.9937588	.9964350	.9980297	.9989469	.9994559
31	.9558341	.9709993	.9816731	.9887085	.9933526	.9961879	.9978855	.9988661
32	.9313188	.9513889	.9696018	.9807102	.9881460	.9929489	.9959488	.9977480
33	.8981890	.9237679	.9516738	.9688834	.9797592	.9875167	.9925495	.9956991
34	.8549381	.8849987	.9268431	.9497908	.9668672	.9788979	.9868970	.9921563
35	.8010079	.8311863	.8918713	.9230063	.9479487	.9655358	.9779038	.9862890
36	.7367683	.7666440	.8473947	.8880072	.9213993	.9461385	.9643321	.9770044
37	.6636001	.7380890	.7984087	.8457390	.8858071	.9190438	.9443624	.9648986
38	.5838993	.6886897	.7473786	.7982368	.8401580	.8828718	.9167413	.9486345
39	.5008813	.6289684	.6937958	.7488091	.7841342	.8366507	.8800000	.9244934
40	.4179839	.5661008	.6400881	.6990006	.7183160	.7801150	.8332158	.8771940
41	.3387147	.4998888	.5914098	.6492618	.6442705	.7139951	.7761700	.8198584
42	.2668181	.4349088	.5409615	.5987434	.5644787	.6395955	.7095491	.7578964
43	.2086447	.3789938	.4910597	.5494278	.4820963	.5597350	.6349834	.6954531
44	.1648199	.3300834	.4437177	.5021883	.4005847	.4774629	.5530845	.6304148
45	.1061879	.2871708	.3973361	.4563903	.3232834	.3962296	.4788579	.5503417
46	.0789618	.2496451	.3580478	.4145826	.2530095	.3193481	.3918574	.4688161

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 94

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
47	.0483664	.0718435	.1030291	.1428522	.1917629	.2495738	.3153611	.3874638
48	.0309111	.0475834	.0706566	.1013421	.1405859	.1888770	.2460814	.3113373
49	.0190339	.0303826	.0467440	.0694065	.0995861	.1382496	.1859247	.2425306
50	.0112855	.0186893	.0298091	.0458505	.0680946	.0977629	.1358442	.1829054
51	.0064393	.0110686	.0183112	.0291931	.0449054	.0667231	.0958743	.1333706
52	.0035342	.0063075	.0108279	.0179015	.0285366	.0439110	.0652943	.0939220
53	.0018647	.0034566	.0061597	.0105650	.0174618	.0278418	.0428698	.0638104
54	.0009453	.0018206	.0033609	.0059970	.0102813	.0169943	.0271111	.0417839
55	.0004602	.0009211	.0017705	.0032720	.0058207	.0099783	.0165007	.0263465
56	.0002150	.0004474	.0008935	.0017148	.0031664	.0056318	.0096576	.0159830
57	.0000964	.0002085	.0004327	.0008627	.0016540	.0030531	.0054114	.0093207
58	.0000414	.0000932	.0002010	.0004164	.0008291	.0015807	.0029329	.0052209
59	.0000171	.0000399	.0000895	.0001926	.0003985	.0007929	.0015195	.0028066
60	.0000067	.0000164	.0000382	.0000854	.0001835	.0003793	.0007547	.0014468
.	.0000025	.0000064	.0000156	.0000362	.0000809	.0001738	.0003590	.0007146
62	.0000009	.0000024	.0000061	.0000147	.0000341	.0000762	.0001635	.0003379
63	.0000003	.0000009	.0000023	.0000057	.0000138	.0000319	.0000712	.0001528
64	.0000001	.0000003	.0000008	.0000021	.0000053	.0000128	.0000296	.0000661
65		.0000001	.0000003	.0000007	.0000020	.0000049	.0000118	.0000273
66			.0000001	.0000003	.0000007	.0000018	.0000045	.0000107
67				.0000001	.0000002	.0000006	.0000016	.0000040
68					.0000001	.0000002	.0000006	.0000014
69						.0000001	.0000002	.0000005
70							.0000001	.0000002

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	.9999999	1.0000000
23	.9999997	.9999999
24	.9999991	.9999996
25	.9999972	.9999989
26	.9999923	.9999968
27	.9999799	.9999913
28	.9999497	.9999775
29	.9998802	.9999444
30	.9997285	.9998692
31	.9994125	.9997060
32	.9987857	.9993693
33	.9976001	.9987063
34	.9954600	.9974608
35	.9917709	.9952261
36	.9856949	.9913952
37	.9761274	.9851168
38	.9617178	.9752750
39	.9409511	.9605122
40	.9123016	.9393144
41	.8744534	.9101675
42	.8265594	.8717788
43	.7684918	.8233360
44	.7010243	.7647539
45	.6258901	.6968520
46	.5456814	.6214055
47	.4635923	.5410385
48	.3830443	.4589615
49	.3078674	.3785945
50	.2389195	.3031480
51	.1798187	.2352461
52	.1308293	.1766640
53	.0919076	.1288812
54	.0622734	.0899334
55	.0406558	.0606856
56	.0255504	.0394878
57	.0154432	.0247850
58	.0089692	.0148832
59	.0050013	.0086048
60	.0026751	.0047739
61	.0013714	.0025392
62	.0006738	.0012937
63	.0003181	.0006307
64	.0001419	.0002940
65	.0000608	.0001308

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 94$$

r	.49	.50
66	.0000249	.0000516
67	.0000097	.0000225
68	.0000036	.0000087
69	.0000013	.0000038
70	.0000004	.0000011
71	.0000001	.0000004
72		.0000001

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 95$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.61510390	.85328410	.94462490	.97931097	.99234860	.99720010	.99898640	.99961710
2	.24857590	.56883490	.78192470	.89741050	.95409140	.98022180	.99173840	.99663880
3	.07041370	.29599590	.54542250	.73702460	.85945530	.92928710	.96509750	.98438500
4	.01550760	.12338340	.31867290	.52985950	.70504910	.82805010	.90626900	.95135320
5	.00275160	.04236130	.15737680	.33132630	.51813630	.68055910	.80269480	.88528940
6	.00040660	.01226730	.06658540	.18077200	.33909350	.50866510	.66080930	.78073630
7	.00005120	.00305490	.02446870	.08667550	.19774390	.34407750	.50061610	.64436280
8	.00000560	.00066450	.00790320	.03682680	.10315660	.21051780	.34731280	.49358950
9	.00000050	.00012790	.00226850	.01367950	.04893550	.11674180	.22038430	.34937160
10		.00003200	.00058390	.00477710	.02053460	.05884010	.12803150	.22814500
11		.00000340	.00013580	.00147950	.00792390	.02711770	.06825010	.13748850
12		.00000050	.00002880	.00041780	.00279510	.01145150	.03340000	.07657310
13		.00000010	.00000560	.00010820	.00090560	.00445170	.01516030	.03949430
14			.00000100	.00002580	.00027060	.00159910	.00635650	.01890860
15			.00000020	.00000570	.00007490	.00053260	.00247530	.00842400
16				.00000120	.00001930	.00016500	.00089780	.00350070
17				.00000020	.00000460	.00004770	.00030410	.00136020
18					.00000100	.00001290	.00009640	.00049530
19					.00000020	.00000330	.00002870	.00016930
20						.00000080	.00000800	.00005450
21						.00000020	.00000210	.00001650
22							.00000050	.00000470
23							.00000010	.00000130
24								.00000030
25								.00000010

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.99987110	.99995500	.99998440	.99999470	.99999820	.99999940	.99999980	.99999990
2	.99866410	.99948020	.99980170	.99992580	.99997270	.99999010	.99999650	.99999880
3	.99305160	.99700060	.99874030	.99948410	.99979360	.99992190	.99996910	.99998840
4	.97584400	.98845990	.99467360	.99761720	.99909420	.99965170	.99986910	.99995270
5	.93676160	.96663370	.98311320	.99176170	.99611360	.99832260	.99921040	.99965070
6	.86624520	.92349610	.95710890	.97722960	.98836130	.99248550	.99725540	.99874820
7	.76178810	.84893350	.90889850	.94750480	.97096540	.98456810	.99200050	.99606960
8	.63008870	.74501180	.83313940	.89599690	.93797460	.96451760	.98046950	.98963120
9	.48730070	.61799630	.73014100	.81866520	.88371400	.92661320	.95793050	.97614100
10	.35059790	.48157830	.60708300	.71676470	.80531840	.87211850	.91948160	.95130210
11	.23432550	.35121160	.47628210	.59726330	.70462120	.79301140	.86112970	.91061350
12	.14546590	.23920570	.35135980	.47134240	.58832820	.69350800	.78155900	.85072550
13	.08394770	.15223220	.24328100	.35114520	.46660030	.58012040	.68326570	.77088740
14	.04510830	.09047640	.15799500	.24649790	.35064100	.46284700	.57251900	.67376720
15	.02286010	.05028600	.09625500	.16291600	.24907590	.34990160	.45804980	.56542930
16	.01058840	.02618180	.05504880	.10136930	.16712330	.25111210	.34896730	.45399610
17	.00463950	.01277500	.02958420	.05940570	.10589440	.17071940	.25877100	.34786980
18	.00190820	.00585780	.01495860	.03281380	.06337780	.10989520	.17378700	.25393060
19	.00073770	.00252720	.00712530	.01710040	.03584780	.06698820	.11342790	.17639390
20	.00026850	.00102750	.00320180	.00841660	.01917660	.03868120	.07026090	.11654110
21	.00009220	.00039430	.00135900	.00391690	.00971050	.02117030	.04131370	.07381900
22	.00003190	.00014300	.00054560	.00172540	.00465870	.01096960	.02310690	.04374830
23	.00001090	.00004910	.00020740	.00073030	.00211970	.00541800	.01224080	.02486650
24	.00000370	.00001600	.00007480	.00028520	.00091550	.00255460	.00617470	.01348140
25	.00000070	.00000490	.00002560	.00010730	.00037570	.00113790	.00296350	.00692860
26	.00000020	.00000140	.00000830	.00003830	.00014660	.00047760	.00135410	.00340000
27		.00000040	.00000260	.00001300	.00005450	.00019260	.00059050	.00159080
28		.00000010	.00000080	.00000420	.00001930	.00007400	.00024460	.00070960
29			.00000020	.00000130	.00000650	.00002710	.00009690	.00030220
30			.00000010	.00000040	.00000210	.00000950	.00003660	.00012290
31				.00000010	.00000060	.00000320	.00001320	.00004770
32					.00000020	.00000100	.00000460	.00001770
33					.00000010	.00000030	.00000150	.00000630
34						.00000010	.00000050	.00000210
35							.00000010	.00000070
36								.00000020
37								.00000010

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999980	.99999990	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999970	.99999985	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000
4	.99997130	.99998890	.99999580	.99999850	.99999940	.99999980	.99999990	1.00000000
5	.99988630	.99994100	.99997630	.99999050	.99999650	.99999870	.99999950	.99999980
6	.99948780	.99974930	.99988310	.99995560	.99998200	.99999290	.99999780	.99999900
7	.99811010	.99911810	.99956080	.99982370	.99992430	.99996830	.99998710	.99999490
8	.99462940	.99735660	.99872650	.99940440	.99977290	.99990030	.99996480	.99998780
9	.98695000	.99310310	.99647240	.99885140	.99951590	.99980780	.99993810	.99998120
10	.97164650	.98407750	.99136110	.99546500	.99769370	.99886250	.99945540	.99974670
11	.94469080	.96703880	.98105020	.98947420	.99431430	.99705610	.99851450	.99928720
12	.90808660	.93813720	.96236100	.97790120	.98746880	.99311980	.99634290	.99811590
13	.86088580	.89377870	.93167380	.95764830	.97465910	.98533460	.99180220	.99555900
14	.76086900	.83144870	.88571580	.92533160	.95392880	.97134900	.98314270	.99040370
15	.66490930	.76144640	.82257430	.87798610	.91909560	.94882520	.96799250	.98086840
16	.55877560	.65660760	.74889500	.81408310	.87053000	.91300600	.94355550	.96460810
17	.45008480	.55849660	.64879210	.73420440	.80599080	.86333770	.90705070	.93893390
18	.34663150	.44689450	.54654280	.64140410	.72684350	.79883780	.85639880	.90128570
19	.25481170	.34827890	.44486090	.54087050	.63439430	.71866980	.79088450	.84969990
20	.17859610	.25540390	.34380860	.43901410	.53544670	.62777800	.71144590	.78371780
21	.11787650	.18004400	.25574190	.34825030	.43549720	.53084110	.62134610	.70453930
22	.07588430	.12167040	.18196470	.26585440	.34060840	.43204780	.52522840	.61524020
23	.04698980	.07887740	.12375450	.19330320	.25576530	.33888900	.42865680	.52803670
24	.02655610	.04804490	.08041700	.13555600	.18641830	.25549460	.33710190	.43853160
25	.01461480	.02881350	.04992030	.09233060	.13270990	.18492930	.25505980	.33524920
26	.00766080	.01572400	.02960420	.05162350	.09400400	.12840460	.18546140	.25447340
27	.00383850	.00839870	.01677400	.03096800	.05931610	.08548160	.12949120	.18579760

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 45$$

r	.17	.18	.19	.20	.21	.22	.23	.24
28	.0018336	.0043738	.0090829	.0177616	.0322100	.0545427	.0867664	.1303751
29	.0008363	.0020802	.0047016	.0097470	.0186842	.0333503	.0557731	.0870705
30	.0003644	.0009677	.0023272	.0051179	.0103774	.0195404	.0343846	.0566600
31	.0001518	.0004304	.0011019	.0025719	.0055195	.0109718	.0203292	.0353158
32	.0000604	.0001831	.0004993	.0012373	.0028118	.0059034	.0115263	.0210506
33	.0000230	.0000746	.0002165	.0005700	.0013783	.0030446	.0062673	.0120409
34	.0000084	.0000291	.0000899	.0002516	.0006418	.0015053	.0032684	.0063093
35	.0000029	.0000108	.0000358	.0001064	.0002877	.0007136	.0016350	.0034815
36	.0000010	.0000039	.0000136	.0000433	.0001236	.0003244	.0007846	.0017600
37	.0000003	.0000013	.0000050	.0000167	.0000509	.0001415	.0003613	.0008540
38	.0000001	.0000004	.0000017	.0000062	.0000201	.0000592	.0001596	.0003977
39		.0000001	.0000006	.0000022	.0000076	.0000238	.0000677	.0001778
40			.0000002	.0000008	.0000028	.0000091	.0000275	.0000763
41			.0000001	.0000003	.0000010	.0000034	.0000108	.0000315
42				.0000001	.0000003	.0000012	.0000040	.0000124
43					.0000001	.0000004	.0000015	.0000047
44						.0000001	.0000005	.0000017
45							.0000002	.0000006
46							.0000001	.0000003
47								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999980	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999912	.9999965	.9999986	.9999995	.9999999	.9999999	1.0000000	1.0000000
9	.9999661	.9999858	.9999942	.9999977	.9999991	.9999997	.9999999	1.0000000
10	.9998855	.9999496	.9999784	.9999910	.9999964	.9999986	.9999994	.9999998
11	.9996542	.9998402	.9999283	.9999687	.9999867	.9999945	.9999978	.9999991
12	.9990585	.9995433	.9997848	.9999015	.9999562	.9999810	.9999920	.9999967
13	.9976684	.9988128	.9994134	.9997106	.9998689	.9999406	.9999739	.9999888
14	.9947102	.9971743	.9985364	.9992646	.9996413	.9998301	.9999219	.9999651
15	.9889345	.9938024	.9966366	.9982303	.9990968	.9995527	.9997850	.9998997
16	.9785304	.9874049	.9928420	.9960584	.9978959	.9989107	.9994529	.9997334
17	.9612114	.9761661	.9858248	.9918352	.9954434	.9975350	.9987070	.9993421
18	.9343716	.9578159	.9737637	.9842032	.9907882	.9947958	.9971496	.9984866
19	.8956031	.9298773	.9544328	.9713418	.9835487	.9897068	.9941176	.9967418
20	.8432315	.8900955	.9254575	.9510718	.9689099	.9808692	.9885970	.9934144
21	.7768941	.8369815	.8847333	.9211174	.9477410	.9664765	.9791721	.9874642
22	.6979211	.7703327	.8309390	.8795141	.9168607	.9444470	.9640492	.9774639
23	.6093756	.6915659	.7640145	.8250935	.8744350	.9136901	.9411956	.9616345
24	.5156971	.6037284	.6854508	.7579222	.8194348	.8694927	.9086072	.9379916
25	.4220185	.5111429	.5988775	.6795557	.7520402	.8139533	.8646838	.9046134
26	.3333361	.4187576	.5067096	.5930043	.6738625	.7463539	.8086400	.8600045
27	.2537493	.3313661	.4155277	.5023642	.5878924	.6683546	.7408508	.8034664
28	.1859532	.2528975	.3293421	.4123235	.4981552	.5829268	.6630174	.7355168
29	.1310706	.1859417	.2519268	.3272662	.4091402	.4940121	.5780943	.6578374
30	.0888047	.1315907	.1857746	.2508450	.3251402	.4059734	.4899456	.5733826
31	.0578098	.0895789	.1319467	.1854623	.2496585	.3229656	.4028190	.4859478
32	.0361466	.0586286	.0908020	.1321486	.1850138	.2483732	.3207432	.3996730
33	.0217045	.0368798	.0593325	.0905823	.1322055	.1844369	.2469939	.3184739
34	.0125141	.0222915	.0375183	.0598967	.0910271	.1321254	.1837386	.2455249
35	.0069277	.0129448	.0228124	.0380651	.0603566	.0912433	.1319157	.1829251
36	.0036823	.0072213	.0133327	.0232682	.0385231	.0607069	.0913371	.1315827
37	.0018793	.0038697	.0074890	.0136775	.0236600	.0388952	.0609522	.0913142
38	.0009210	.0019919	.0040425	.0077302	.0139794	.0239891	.0391841	.0610968
39	.0004334	.0009849	.0020969	.0042000	.0079443	.0142385	.0242569	.0393926
40	.0001958	.0004678	.0010451	.0021936	.0043415	.0081310	.0144552	.0244649
41	.0000850	.0002134	.0005005	.0011012	.0022813	.0044664	.0082901	.0146302
42	.0000354	.0000935	.0002303	.0005313	.0011525	.0023597	.0045745	.0084317
43	.0000142	.0000394	.0001018	.0002464	.0005597	.0011988	.0024282	.0046654
44	.0000055	.0000159	.0000433	.0001098	.0002613	.0005856	.0012396	.0024866
45	.0000020	.0000062	.0000177	.0000470	.0001172	.0002750	.0006086	.0012748
46	.0000007	.0000023	.0000069	.0000193	.0000506	.0001241	.0002873	.0006286
47	.0000002	.0000008	.0000026	.0000075	.0000209	.0000538	.0001303	.0002940
48	.0000001	.0000003	.0000009	.0000029	.0000083	.0000224	.0000568	.0001358
49		.0000001	.0000003	.0000011	.0000032	.0000090	.0000238	.0000595
50			.0000001	.0000004	.0000012	.0000035	.0000096	.0000250
51				.0000001	.0000004	.0000011	.0000027	.0000101
52					.0000001	.0000005	.0000014	.0000039
53						.0000002	.0000005	.0000015
54						.0000001	.0000002	.0000005
55							.0000001	.0000002
56								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999954	.9999981	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
14	.9999844	.9999936	.9999974	.9999990	.9999996	.9999998	.9999999	1.0000000
15	.9999474	.9999800	.9999914	.9999964	.9999986	.9999994	.9999998	.9999999

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 95

x	.33	.34	.35	.36	.37	.38	.39	.40
16	.9998739	.9999421	.9999742	.9999888	.9999953	.9999981	.9999992	.9999997
17	.9996753	.9998445	.9999277	.9999674	.9999857	.9999939	.9999975	.9999990
18	.9993207	.9996100	.9998115	.9999114	.9999566	.9999781	.9999923	.9999968
19	.9982505	.9990892	.9995402	.9997749	.9998931	.9999508	.9999780	.9999905
20	.9963140	.9980002	.9990483	.9994637	.9997349	.9998730	.9999410	.9999734
21	.9926898	.9958685	.9977370	.9987986	.9993818	.9996917	.9998510	.9999302
22	.9863137	.9919464	.9954077	.9974624	.9986411	.9992948	.9996454	.9998272
23	.9757508	.9851504	.9911890	.9949342	.9971778	.9984766	.9992033	.9995964
24	.9592382	.9740385	.9839790	.9904206	.9944503	.9968050	.9983062	.9991078
25	.9348390	.9568656	.9723320	.9820039	.9896447	.9939585	.9965855	.9981308
26	.9007092	.9317411	.9545212	.9706361	.9816292	.9888645	.9934618	.9962810
27	.8554510	.8968948	.9307007	.9522090	.9689551	.9804589	.9880833	.9929607
28	.7984843	.8510197	.8931700	.9257201	.9499348	.9672930	.9792965	.9873040
29	.7303428	.7936262	.8467067	.8895343	.9228013	.9476958	.9656531	.9781455
30	.6528024	.7253177	.7889049	.8425084	.8859073	.9199458	.9455007	.9640394
31	.5687811	.6479014	.7204320	.7843139	.8384213	.8825281	.9171551	.9433504
32	.4820090	.5644796	.6431239	.7156771	.7798467	.8344420	.8791560	.9144302
33	.3965320	.4781239	.5596691	.6384608	.7110448	.7754976	.8305670	.8758700
34	.3161580	.3933923	.4742054	.5555410	.6339013	.7065275	.7712610	.8267934
35	.2439697	.3137959	.3902507	.4704872	.5512876	.6294433	.7021182	.7671316
36	.1830016	.2423314	.3113075	.3871048	.4667237	.5471017	.6350734	.6978103
37	.1311323	.1809731	.2406127	.3080325	.3839494	.4629893	.5629765	.6207867
38	.0911797	.1305697	.1798436	.2348157	.3064307	.3807836	.4592791	.5389057
39	.0611446	.0909384	.1298997	.1706160	.2369423	.3038815	.3776038	.4555882
40	.0395235	.0610905	.0905947	.1291263	.1772960	.2349940	.3012842	.3744070
41	.0246146	.0395792	.0609648	.0901526	.1282535	.1758841	.2389719	.2986379
42	.0147640	.0247075	.0395624	.0607440	.0896157	.1272346	.1743834	.2300769
43	.0085260	.0148574	.0247453	.0394753	.0604402	.0889074	.1262220	.1727961
44	.0047390	.0086031	.0149114	.0247295	.0393205	.0600562	.0882709	.1250708
45	.0025346	.0047953	.0086535	.0149268	.0246617	.0391001	.0595948	.0874690
46	.0013041	.0025723	.0048345	.0086776	.0149046	.0245436	.0380164	.0590580
47	.0006454	.0013274	.0025994	.0048568	.0086760	.0148460	.0243767	.0384716
48	.0003071	.0006589	.0013446	.0026161	.0048623	.0086494	.0147519	.0241628
49	.0001405	.0003144	.0006690	.0013557	.0026225	.0048515	.0085984	.0146237
50	.0000618	.0001443	.0003200	.0006757	.0013607	.0026187	.0048247	.0085338
51	.0000261	.0000636	.0001471	.0003238	.0006790	.0013597	.0026051	.0047025
52	.0000106	.0000269	.0000650	.0001491	.0003257	.0006709	.0013529	.0025818
53	.0000041	.0000110	.0000276	.0000660	.0001501	.0003258	.0006755	.0013405
54	.0000015	.0000043	.0000112	.0000280	.0000665	.0001503	.0003241	.0006688
55	.0000006	.0000016	.0000044	.0000114	.0000283	.0000665	.0001494	.0003207
56	.0000002	.0000006	.0000017	.0000045	.0000115	.0000283	.0000661	.0001476
57	.0000001	.0000002	.0000006	.0000017	.0000045	.0000115	.0000281	.0000652
58		.0000001	.0000002	.0000006	.0000017	.0000045	.0000114	.0000277
59			.0000001	.0000002	.0000006	.0000017	.0000045	.0000112
60				.0000001	.0000002	.0000006	.0000017	.0000044
61					.0000001	.0000002	.0000006	.0000016
62						.0000001	.0000002	.0000006
63							.0000001	.0000002
64								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999960	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
20	.9999884	.9999951	.9999980	.9999992	.9999997	.9999999	1.0000000	1.0000000
21	.9999683	.9999861	.9999941	.9999976	.9999990	.9999996	.9999999	.9999999
22	.9999105	.9999627	.9999835	.9999929	.9999971	.9999988	.9999995	.9999998
23	.9997819	.9999059	.9999567	.9999807	.9999917	.9999965	.9999986	.9999995
24	.9995449	.9997752	.9998925	.9999503	.9999778	.9999904	.9999960	.9999984
25	.9990091	.9994914	.9997473	.9998785	.9999435	.9999746	.9999890	.9999954
26	.9979515	.9989076	.9994361	.9997184	.9998639	.9999364	.9999715	.9999875
27	.9959730	.9977695	.9988041	.9993796	.9996807	.9998489	.9999298	.9999679
28	.9924594	.9956633	.9978557	.9986993	.9993222	.9996584	.9998337	.9999217
29	.9865295	.9919594	.9963535	.9974013	.9985940	.9992643	.9996280	.9998182
30	.9770092	.9857626	.9914629	.9950450	.9972174	.9984887	.9992065	.9995975
31	.9624544	.9758906	.9850059	.9909721	.9947397	.9970351	.9983843	.9991492
32	.9412470	.9609013	.9747925	.9842620	.9904890	.9944388	.9968555	.9982815
33	.9117723	.9391927	.9593826	.9737176	.9835333	.9900155	.9941441	.9966797
34	.8726692	.9091818	.9371866	.9579010	.9726686	.9826220	.9895537	.9938568
35	.8231180	.8695527	.9066598	.9352394	.9564587	.9716479	.9821306	.9891053
36	.7631047	.8195381	.8665196	.9042068	.9333438	.9550580	.9706570	.9814610
37	.6935978	.7591757	.8160510	.8635690	.9018236	.9315046	.9537011	.9697006
38	.6165766	.6894748	.7553402	.8126540	.8607001	.8995106	.9297232	.9523901
39	.5348833	.6124370	.6854360	.7515943	.8093449	.8579121	.8972684	.9280011
40	.4519118	.5300036	.6083621	.6814763	.7479342	.8061214	.8552044	.8950977
41	.3711904	.4482456	.5269613	.6043465	.6775910	.7443563	.8020815	.8525763
42	.2959417	.3679512	.4445852	.5230512	.6003850	.6737755	.7408572	.7999213
43	.2287008	.2931944	.3646855	.4409263	.5191684	.5964727	.6700254	.7374330
44	.1711241	.2266708	.2903948	.3613934	.4372649	.5153081	.5926047	.6663369
45	.1238310	.1693688	.2241602	.2875 14	.3580690	.4335969	.5114656	.5887765

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 95

x	.41	.42	.43	.44	.45	.46	.47	.48
46	.0865444	.1885057	.1675316	.2217780	.2846388	.3547103	.4299183	.5076364
47	.0584504	.0856195	.1210970	.1656136	.2193239	.2816673	.3513144	.4262249
48	.0380678	.0577732	.0845760	.1196065	.1636156	.2167976	.2786429	.3470700
49	.0239035	.0376069	.0570264	.0834582	.1180360	.1615382	.2141985	.2755570
50	.0144624	.0236005	.0370911	.0562151	.0822658	.1163858	.1593820	.2115285
51	.0084464	.0142693	.0232553	.0365223	.0553405	.0810014	.1146602	.1571473
52	.0047254	.0083072	.0140457	.0230690	.0359035	.0544046	.0796669	.1128573
53	.0025492	.0046540	.0081670	.0137930	.0228455	.0352337	.0534093	.0782640
54	.0013232	.0025077	.0045690	.0080069	.0135135	.0219842	.0345177	.0503566
55	.0006591	.0012989	.0024578	.0044710	.0078280	.0132057	.0214876	.0317565
56	.0003136	.0006464	.0012706	.0023999	.0041608	.0076318	.0128739	.0209575
57	.0001450	.0003089	.0006309	.0012376	.0023346	.0042371	.0074157	.0125186
58	.0000640	.0001416	.0003007	.0006127	.0012003	.0022624	.0041078	.0071888
59	.0000270	.0000623	.0001375	.0002911	.0005932	.0011590	.0021830	.0039554
60	.0000110	.0000263	.0000602	.0001326	.0002803	.0005696	.0011141	.0020995
61	.0000043	.0000106	.0000253	.0000579	.0001271	.0002607	.0005450	.0010661
62	.0000016	.0000041	.0000102	.0000242	.0000552	.0001211	.0002554	.0005107
63	.0000006	.0000015	.0000039	.0000097	.0000229	.0000523	.0001146	.0002417
64	.0000002	.0000005	.0000014	.0000037	.0000091	.0000216	.0000492	.0001077
65	.0000001	.0000002	.0000005	.0000013	.0000035	.0000085	.0000202	.0000459
66		.0000001	.0000002	.0000005	.0000013	.0000032	.0000079	.0000187
67			.0000001	.0000002	.0000004	.0000012	.0000029	.0000072
68					.0000001	.0000004	.0000010	.0000027
69						.0000001	.0000004	.0000009
70							.0000001	.0000003
71								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	.9999999	1.0000000
23	.9999998	.9999999
24	.9999994	.9999998
25	.9999981	.9999993
26	.9999947	.9999979
27	.9999860	.9999941
28	.9999645	.9999844
29	.9999143	.9999610
30	.9998088	.9999068
31	.9995673	.9997876
32	.9990928	.9995377
33	.9981810	.9990378
34	.9965086	.9980816
35	.9935786	.9963414
36	.9886721	.9933106
37	.9808154	.9882560
38	.9687785	.9801959
39	.9511268	.9670936
40	.9263399	.9499133
41	.8939991	.9247410
42	.8500275	.8909732
43	.7969449	.8475574
44	.7340834	.7940450
45	.6627059	.7308030
46	.5849837	.6591287
47	.5038160	.5812230
48	.4225189	.5000000
49	.3443081	.4187770
50	.2724100	.3408713
51	.2087781	.2691970
52	.1540341	.2059550
53	.1109792	.1524426
54	.0767942	.1090268
55	.0512484	.0752590
56	.0329521	.0500867
57	.0203957	.0321064
58	.0121415	.0198041
59	.0069456	.0117440
60	.0038149	.0066894
61	.0020102	.0036566
62	.0010153	.0019164
63	.0004911	.0009622
64	.0002273	.0004633
65	.0001006	.0002124

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 95

c	.49	.50
66	.0000485	.0000932
67	.0000171	.0000390
68	.0000064	.0000156
69	.0000024	.0000059
70	.0000008	.0000021
71	.0000003	.0000007
72	.0000001	.0000002
73		.0000001

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 96

c	.01	.02	.03	.04	.05	.06	.07	.08
1	.6189529	.8562184	.9462061	.9801373	.9927311	.9973681	.9990573	.9996661
2	.2494536	.5745939	.7868058	.9006865	.9560043	.9812405	.9933457	.9986787
3	.0721672	.3014826	.5551176	.7434401	.8641070	.9323431	.9678924	.9853653
4	.0160566	.1268357	.3254754	.5181462	.7127694	.8345484	.9104570	.9539957
5	.0028791	.0439817	.1422157	.3192677	.5374819	.6894168	.8090450	.8955745
6	.0004300	.0128692	.0693092	.1867942	.3680456	.5109646	.6707413	.7891006
7	.0000548	.0032391	.0257293	.0904394	.2044114	.3530519	.5110296	.6552727
8	.0000061	.0007123	.0084001	.0388207	.1078059	.2185314	.3580440	.5056514
9	.0000006	.0001386	.0024375	.0148934	.0511336	.1223684	.2292693	.3609090
10	.0000001	.0000241	.0006344	.0051452	.0219276	.0623518	.1344960	.2378431
11		.0000038	.0001493	.0014114	.0085544	.0290234	.0724348	.1447410
12		.0000005	.0000320	.0004603	.0030516	.0123914	.0359139	.0814464
13		.0000001	.0000063	.0001206	.0010000	.0048717	.0164427	.0424605
14			.0000011	.0000291	.0003024	.0017703	.0069738	.0205554
15			.0000002	.0000065	.0000847	.0005966	.0027470	.0092627
16				.0000013	.0000220	.0001871	.0010088	.0038946
17				.0000003	.0000053	.0000547	.0003456	.0015315
18					.0000012	.0000150	.0001110	.0005645
19					.0000003	.0000038	.0000334	.0001954
20					.0000001	.0000009	.0000095	.0000637
21						.0000002	.0000025	.0000195
22							.0000006	.0000057
23							.0000002	.0000016
24								.0000004
25								.0000001

c	.09	.10	.11	.12	.13	.14	.15	.16
1	.9998831	.9999595	.9999868	.9999953	.9999984	.9999995	.9999998	.9999999
2	.9987787	.9995277	.9998218	.9999340	.9999760	.9999914	.9999970	.9999990
3	.9935567	.9972486	.9988571	.9996371	.9998869	.9999582	.9999732	.9999901
4	.9773927	.9893140	.9953910	.9984412	.9996780	.9998616	.9999369	.9999869
5	.9400244	.9688163	.9843649	.9924644	.9984842	.9994101	.9998017	.9999717
6	.8735863	.9269099	.9599694	.9789735	.9943691	.9984109	.9997487	.9999771
7	.7711392	.8562898	.9142017	.9510718	.9873443	.9959244	.9998567	.9999490
8	.6421177	.7554040	.8414729	.9021533	.9742655	.9907678	.9996111	.9999613
9	.5001696	.6306979	.7414708	.8279416	.9536398	.9813113	.9992995	.9999295
10	.3689018	.4958147	.6206194	.7289928	.9255272	.9660286	.9958489	.9998763
11	.2447900	.3642476	.4906702	.6116035	.8717145	.9348856	.9898825	.9997837
12	.1534632	.2504783	.3651013	.4864529	.8034463	.8873385	.9734946	.9996307
13	.0894843	.1609376	.2551697	.3655688	.7225015	.8259946	.9480097	.9993651
14	.0485984	.0966519	.1673764	.2590556	.6357272	.7587693	.9091310	.9989304
15	.0246253	.0543051	.1010464	.1729458	.5522794	.6856333	.8579201	.9982614
16	.0116640	.0285832	.0559615	.1087549	.4777772	.6149508	.7953096	.9973054
17	.0051744	.0141147	.0323853	.0644413	.4138542	.5481975	.7226554	.9960495
18	.0021540	.0065495	.0176574	.0360048	.3589049	.4884106	.6426866	.9944608
19	.0008430	.0028603	.0090870	.0189860	.3094267	.4329552	.5624818	.9925790
20	.0003107	.0011775	.0043633	.0094587	.2613439	.3826442	.4876360	.9904261
21	.0001080	.0004576	.0015617	.0044569	.2169411	.3336219	.4156558	.9880505
22	.0000355	.0001681	.0006351	.0019884	.1805155	.2912149	.3528062	.9854635
23	.0000110	.0000585	.0002446	.0008409	.1504409	.2561954	.2998446	.9827875
24	.0000032	.0000193	.0000894	.0003374	.1240720	.2239379	.2570845	.9800778
25	.0000009	.0000060	.0000310	.0001286	.0994459	.1913249	.2234452	.9773722
26	.0000002	.0000018	.0000102	.0000466	.0801764	.1665607	.2015955	.9746446
27	.0000001	.0000005	.0000032	.0000161	.0660664	.1453325	.1807042	.9718800
28		.0000001	.0000010	.0000053	.0000238	.0000906	.1602964	.9690506
29			.0000003	.0000017	.0000062	.0000337	.0001190	.0003674
30			.0000001	.0000005	.0000027	.0000119	.0000456	.0001516
31				.0000001	.0000008	.0000040	.0000167	.0000598
32					.0000002	.0000013	.0000059	.0000225
33					.0000001	.0000004	.0000020	.0000081
34						.0000001	.0000006	.0000028
35							.0000002	.0000009
36							.0000001	.0000003
37								.0000001

c	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999964	.9999987	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
4	.9999755	.9999907	.9999965	.9999987	.9999995	.9999998	.9999999	1.0000000
5	.9998758	.9999496	.9999800	.9999923	.9999971	.9999989	.9999996	.9999999
6	.9995004	.9997838	.9999089	.9999626	.9999850	.9999941	.9999978	.9999992
7	.9983340	.9992317	.9996558	.9998500	.9999364	.9999737	.9999894	.9999958
8	.9952686	.9976737	.9988935	.9994882	.9997702	.9999097	.9999574	.9999824
9	.9883640	.9938687	.9969007	.9984820	.9992788	.9996672	.9998508	.9999349
10	.9743401	.9857021	.9923323	.9960223	.9980014	.9990363	.9995396	.9997886
11	.9499738	.9701057	.9830093	.9906724	.9950473	.9974535	.9987309	.9993864
12	.9098794	.9433395	.9659120	.9802158	.9889078	.9939851	.9968424	.9983936
13	.8512569	.9017213	.9375044	.9616909	.9773479	.9870564	.9928465	.9961727
14	.7744671	.8426906	.8944478	.9317869	.9574922	.9744284	.9851344	.9916410
15	.6813224	.7658684	.8345712	.8874532	.9262006	.9533125	.9714771	.9831568
16	.5768183	.6736818	.7577910	.8266637	.8807288	.9207542	.9491760	.9685105
17	.4685620	.5713366	.6666146	.7501801	.8195361	.8742647	.9154530	.9450952
18	.3643185	.4654109	.5659696	.6589643	.7429884	.8125591	.8680501	.9108997
19	.2704211	.3634568	.4623564	.5609772	.6536886	.7361746	.8059065	.8560737
20	.1915527	.2715803	.3625807	.4593854	.5562257	.6477292	.7297030	.7895538
21	.1293608	.1939335	.2734746	.3616032	.4564866	.5516865	.6420690	.7135428
22	.0839610	.1332490	.1959824	.2731337	.3605350	.4536503	.5473355	.6316780
23	.0510719	.0860881	.1348144	.1977314	.2735824	.3593847	.4508683	.5431515
24	.0296598	.0534867	.0885511	.1370855	.1992156	.2738416	.3581595	.4481330
25	.0166448	.0317193	.0557147	.0909677	.1390868	.2004537	.2734290	.3566858

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 96$$

x	.17	.18	.19	.20	.21	.22	.23	.24
26	.0088496	.0179581	.0334643	.0577629	.0930540	.1408400	.2014689	.2738596
27	.0044896	.0097091	.0198110	.0350943	.0596307	.0949246	.1423643	.2022798
28	.0021744	.0050145	.0105443	.0204016	.0366099	.0613493	.0965931	.1436765
29	.0010050	.0024750	.0055341	.0113499	.0218046	.0388125	.0629016	.0980716
30	.0004446	.0011679	.0027783	.0060438	.0121218	.0225785	.0393040	.0643025
31	.0001870	.0005271	.0013347	.0030811	.0065396	.0128564	.0235620	.0404864
32	.0000760	.0002276	.0006138	.0015043	.0033804	.0070183	.0135509	.0244742
33	.0000294	.0000941	.0002703	.0007035	.0016746	.0036736	.0074769	.0148033
34	.0000109	.0000372	.0001140	.0003153	.0007952	.0018440	.0039588	.0077189
35	.0000039	.0000141	.0000461	.0001354	.0003680	.0008978	.0020107	.0042322
36	.0000013	.0000051	.0000178	.0000558	.0001581	.0004100	.0009802	.0021738
37	.0000004	.0000018	.0000066	.0000220	.0000662	.0001817	.0004586	.0010714
38	.0000001	.0000006	.0000024	.0000083	.0000266	.0000775	.0002060	.0005078
39		.0000002	.0000008	.0000030	.0000103	.0000315	.0000888	.0002306
40		.0000001	.0000003	.0000011	.0000038	.0000124	.0000368	.0001007
41			.0000001	.0000004	.0000013	.0000047	.0000146	.0000422
42				.0000001	.0000005	.0000017	.0000056	.0000170
43					.0000002	.0000006	.0000020	.0000066
44						.0000002	.0000007	.0000024
45						.0000001	.0000002	.0000009
46							.0000001	.0000003
47								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999984	.9999994	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999929	.9999972	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
9	.9999784	.9999886	.9999954	.9999982	.9999993	.9999997	.9999999	1.0000000
10	.9999056	.9999590	.9999827	.9999929	.9999973	.9999989	.9999996	.9999998
11	.9997120	.9998687	.9999418	.9999749	.9999895	.9999957	.9999983	.9999993
12	.9990074	.9996205	.9998335	.9999203	.9999650	.9999851	.9999938	.9999975
13	.9980159	.9990087	.9995137	.9997698	.9998942	.9999588	.9999795	.9999914
14	.9954497	.9976003	.9987733	.9993917	.9997073	.9998633	.9999380	.9999787
15	.9893784	.9946791	.9971495	.9985199	.9992547	.9996360	.9998274	.9999606
16	.9811374	.9890683	.9938666	.9966665	.9988442	.9991033	.9995559	.9997866
17	.9655431	.9790882	.9877104	.9930177	.9961546	.9976477	.9980388	.9994673
18	.9410816	.9635869	.9770802	.9861402	.9921382	.9956171	.9976324	.9987603
19	.9058952	.9371413	.9596522	.9749430	.9849381	.9918333	.9950575	.9973001
20	.8563244	.9004388	.9332809	.9567474	.9728653	.9853205	.9903084	.9944792
21	.7934786	.8507912	.8957388	.9295047	.9538800	.9707944	.9820938	.9893683
22	.7176644	.7876614	.8454635	.8911630	.9254160	.9510559	.9687375	.9804640
23	.6315130	.7138452	.7820841	.8403313	.8867384	.9232171	.9488802	.9666529
24	.5391167	.6335661	.7066630	.7767302	.8353848	.8824519	.9187094	.9455553
25	.4454381	.5532151	.6318143	.7014984	.7715876	.8306151	.8783001	.9152948
26	.3558067	.4827778	.5714329	.6272387	.6965340	.7666337	.8260136	.8743794
27	.2716460	.4240879	.4401460	.5377579	.6128237	.6917544	.7618456	.8215728
28	.2026023	.3733994	.3526128	.4375405	.5241790	.6085551	.6871455	.7572671
29	.1447913	.2013502	.2728309	.3510823	.4349546	.5206865	.6044804	.6886948
30	.0963710	.1457280	.2036357	.2732429	.3495002	.4323850	.5172717	.6004087
31	.0655585	.1005020	.1464802	.2037695	.2715482	.3476679	.4298282	.5139865
32	.0415624	.0666757	.1014731	.1470764	.2037408	.2707509	.3461867	.4378808
33	.0253150	.0425345	.0676599	.1032928	.1475199	.2036178	.2698568	.3444576
34	.0148117	.0260845	.0434054	.0685167	.1029688	.1478189	.2033478	.2668486
35	.0083243	.0153749	.0267830	.0441780	.0693510	.1035060	.1479806	.2029570
36	.0044937	.0087094	.0158922	.0274113	.0448548	.0698678	.1039165	.1480183
37	.0023301	.0047411	.0093668	.0163629	.0279703	.0454307	.0703715	.1043001
38	.0011606	.0024801	.0049731	.0093954	.0167867	.0284609	.0459330	.0707664
39	.0005553	.0012467	.0026232	.0051885	.0096945	.0171637	.0280843	.0463380
40	.0002552	.0006022	.0013291	.0027554	.0053863	.0099632	.0174937	.0292418
41	.0001127	.0002796	.0006476	.0014071	.0028788	.0055658	.0102013	.0177773
42	.0000478	.0001247	.0003033	.0006904	.0014709	.0029917	.0057843	.0104084
43	.0000195	.0000535	.0001365	.0003261	.0007316	.0015471	.0030955	.0058674
44	.0000076	.0000220	.0000591	.0001460	.0003478	.0007795	.0016081	.0031838
45	.0000029	.0000087	.0000248	.0000646	.0001590	.0003682	.0008042	.0016626
46	.0000010	.0000033	.0000098	.0000271	.0000709	.0001694	.0003869	.0008354
47	.0000004	.0000012	.0000038	.0000109	.0000295	.0000749	.0001790	.0004038
48	.0000001	.0000004	.0000014	.0000042	.0000120	.0000319	.0000796	.0001877
49		.0000001	.0000005	.0000016	.0000047	.0000130	.0000341	.0000839
50			.0000002	.0000006	.0000018	.0000051	.0000140	.0000361
51			.0000001	.0000002	.0000006	.0000019	.0000055	.0000149
52				.0000001	.0000002	.0000007	.0000021	.0000059
53					.0000001	.0000002	.0000006	.0000023
54						.0000001	.0000003	.0000008
55							.0000001	.0000003
56								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$I(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad r = 36$$

N	.33	.34	.35	.36	.37	.38	.39	.40
12	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999965	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
14	.9999883	.9999951	.9999980	.9999992	.9999997	.9999999	1.0000000	1.0000000
15	.9999645	.9999846	.9999935	.9999974	.9999989	.9999996	.9999998	.9999999
16	.9999005	.9999550	.9999808	.9999916	.9999965	.9999985	.9999995	.9999998
17	.9997408	.9998777	.9999440	.9999751	.9999893	.9999955	.9999980	.9999993
18	.9993707	.9996903	.9998569	.9999316	.9999693	.9999866	.9999944	.9999977
19	.9985707	.9992666	.9996351	.9998240	.9999177	.9999637	.9999836	.9999930
20	.9969851	.9983705	.9991584	.9995758	.9997934	.9999025	.9999654	.9999803
21	.9931856	.9965931	.9981610	.9990380	.9995184	.9997605	.9998861	.9999475
22	.9864177	.9932799	.9962230	.9976494	.9989151	.9994456	.9997256	.9998684
23	.9750386	.9874610	.9926655	.9951443	.9977198	.9987875	.9993757	.9996887
24	.9564874	.9778165	.9865085	.9900455	.9954595	.9974898	.9986561	.9993038
25	.9288907	.9637044	.9764085	.9815459	.9914288	.9950706	.9972566	.9985816
26	.8911781	.9408834	.9607550	.9750165	.9848949	.9909003	.9946797	.9970908
27	.8703863	.9087425	.9377379	.9584428	.9736445	.9836830	.9901807	.9944884
28	.8417833	.8666172	.9056057	.9352561	.9569711	.9722960	.9827834	.9895667
29	.7588895	.8131400	.8689688	.9085618	.9328400	.9551487	.9709711	.9818089
30	.6783907	.7485425	.8091355	.8594378	.8996085	.9304900	.9533608	.9696810
31	.5965081	.6748229	.7443975	.8058639	.8560207	.8967469	.9282099	.9516860
32	.5106438	.5987110	.6701818	.7403844	.8015193	.8537147	.8939757	.9259983
33	.4247304	.5074169	.5890083	.6662587	.7365015	.7978965	.8495167	.8912941
34	.3436814	.4233011	.5042397	.5851834	.6624456	.7327361	.7943903	.8464240
35	.2677919	.3400587	.4196689	.5011066	.5811834	.6587353	.7290839	.7909963
36	.2034511	.2666894	.3369866	.4171881	.4980123	.5783915	.6551309	.7256389
37	.1479178	.2010149	.2653839	.3370743	.4145759	.4949580	.5749943	.6515961
38	.1045641	.1477069	.2011188	.2640578	.3351187	.4126018	.4919811	.5716581
39	.0710162	.1044131	.1473800	.2002084	.2626530	.3331043	.4094572	.4889158
40	.0465585	.0712447	.1043514	.1469489	.1993658	.2611713	.3310488	.4068795
41	.0295345	.0466961	.0713353	.1041631	.1463998	.1983458	.2596157	.3289455
42	.0180147	.0297639	.0470538	.0713311	.1039117	.1457584	.1972389	.2579813
43	.0105845	.0183065	.0299313	.0471381	.0712351	.1035404	.1450054	.1960804
44	.0059887	.0107296	.0183533	.0300360	.0471348	.0710500	.1030721	.1441609
45	.0032681	.0060900	.0108438	.0184558	.0300854	.0470634	.0707785	.1025097
46	.0017102	.0033281	.0061713	.0109273	.0185147	.0300750	.0469200	.0704218
47	.0008627	.0017807	.0033817	.0062303	.0109806	.0185311	.0300088	.0467065
48	.0004187	.0008862	.0017038	.0034327	.0062714	.0110051	.0185056	.0298864
49	.0001954	.0004315	.0009054	.0018095	.0034516	.0062947	.0109983	.0184393
50	.0000877	.0002081	.0004428	.0009805	.0018976	.0034672	.0062964	.0109637
51	.0000379	.0000910	.0002077	.0004505	.0009312	.0018388	.0034707	.0062790
52	.0000157	.0000394	.0000938	.0002120	.0004564	.0009376	.0018418	.0034621
53	.0000063	.0000164	.0000407	.0000959	.0002151	.0004600	.0009397	.0018369
54	.0000024	.0000065	.0000170	.0000417	.0000972	.0002159	.0004611	.0009374
55	.0000009	.0000025	.0000068	.0000174	.0000434	.0000983	.0002175	.0004599
56	.0000003	.0000009	.0000026	.0000070	.0000177	.0000426	.0000986	.0002168
57	.0000001	.0000003	.0000010	.0000027	.0000071	.0000179	.0000429	.0000968
58		.0000001	.0000003	.0000010	.0000027	.0000074	.0000179	.0000427
59			.0000001	.0000004	.0000010	.0000028	.0000072	.0000178
60				.0000001	.0000004	.0000010	.0000028	.0000071
61					.0000001	.0000004	.0000010	.0000027
62						.0000001	.0000004	.0000010
63							.0000001	.0000004
64								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999991	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999971	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
20	.9999915	.9999965	.9999986	.9999994	.9999998	.9999999	1.0000000	1.0000000
21	.9999766	.9999899	.9999958	.9999983	.9999993	.9999997	1.0000000	1.0000000
22	.9999389	.9999735	.9999881	.9999950	.9999980	.9999992	.9999997	.9999999
23	.9998497	.9999398	.9999663	.9999861	.9999941	.9999976	.9999991	.9999996
24	.9996503	.9998301	.9999201	.9999637	.9999840	.9999932	.9999973	.9999989
25	.9992288	.9996106	.9998097	.9999101	.9999589	.9999819	.9999923	.9999968
26	.9983851	.9991520	.9995699	.9997888	.9998997	.9999540	.9999796	.9999913
27	.9967848	.9982475	.9990759	.9995386	.9997675	.9998892	.9999490	.9999773
28	.9939000	.9965479	.9981096	.9989986	.9994871	.9997461	.9998785	.9999439
29	.9889608	.9935150	.9963133	.9979724	.9989217	.9994456	.9997346	.9998679
30	.9809185	.9883652	.9931358	.9960818	.9978369	.9988455	.9994046	.9997034
31	.9684210	.9800036	.9877804	.9927643	.9958547	.9977038	.9987708	.9993644
32	.9499400	.9671968	.9791842	.9872144	.9924018	.9956331	.9975741	.9986980
33	.9238548	.9483103	.9660089	.9783571	.9866633	.9920508	.9954185	.9974486
34	.8887014	.9217864	.9467396	.9644603	.9775577	.9861310	.9917112	.9953118
35	.8434340	.8861969	.9197876	.9452105	.9637531	.9767880	.9856194	.9918860
36	.7877102	.8405443	.8837799	.9178612	.9437455	.9626894	.9760500	.9851303
37	.7220986	.7845279	.8377523	.8811497	.9160077	.9423392	.9616708	.9753454
38	.6481553	.7187492	.7814459	.8350586	.8792057	.9142227	.9409928	.9606991
39	.5683775	.6447929	.7154948	.7784606	.8324547	.8770474	.9125822	.9397078
40	.4859301	.5651476	.6415039	.7123983	.7755690	.8299451	.8749745	.9108613

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 96

X	.41	.42	.43	.44	.45	.46	.47	.48
41	.4042862	.4429619	.5619636	.6382837	.7092454	.7727488	.8275263	.8729866
43	.3267937	.4016749	.4800069	.5588212	.6351277	.7062426	.7700584	.8251967
43	.2562749	.3245923	.1990429	.4770613	.5557159	.6320380	.7033164	.7674288
44	.1947142	.2544947	.3223402	.3963879	.4741215	.5526438	.6289924	.7004634
45	.1432212	.1933516	.2526411	.3200363	.3937072	.4711841	.5496010	.6260055
46	.1018555	.1421892	.1918819	.2507139	.3176791	.3909982	.4682455	.5465836
47	.0699844	.1011118	.1410639	.1903259	.2487129	.3152671	.3882582	.4653084
48	.0464247	.0696681	.1002805	.1398496	.1885843	.2466376	.3107985	.3854845
49	.0297109	.0460764	.0688731	.0993635	.1385468	.1869575	.2444073	.3108715
50	.0183332	.0294832	.0446633	.0682021	.0983684	.1371564	.1851487	.2428610
51	.0109012	.0181884	.0282047	.0451872	.0674569	.0972787	.1356784	.1838488
52	.0062428	.0108113	.0170059	.0288769	.0446406	.0666391	.0961138	.1341168
53	.0034414	.0061883	.0106949	.0177868	.0288011	.0440823	.0657304	.0948608
54	.0018253	.0034092	.0061161	.0105528	.0175324	.0280789	.0433967	.0647922
55	.0009310	.0018066	.0033656	.0060268	.0103860	.0172438	.0276117	.0426846
56	.0004564	.0009204	.0017811	.0033112	.0059210	.0101954	.0169823	.0271010
57	.0002150	.0004506	.0009059	.0017490	.0032464	.0057996	.0099821	.0168693
58	.0000972	.0002119	.0004426	.0008877	.0017107	.0031718	.0056632	.0097471
59	.0000422	.0000956	.0002076	.0004326	.0008659	.0016665	.0030878	.0055126
60	.0000176	.0000414	.0000934	.0002023	.0004207	.0008407	.0016169	.0029952
61	.0000070	.0000172	.0000403	.0000907	.0001960	.0004069	.0008125	.0015621
62	.0000027	.0000068	.0000167	.0000390	.0000876	.0001888	.0003915	.0007815
63	.0000010	.0000026	.0000066	.0000161	.0000375	.0000839	.0001808	.0003747
64	.0000003	.0000009	.0000025	.0000063	.0000153	.0000357	.0000799	.0001720
65	.0000001	.0000003	.0000009	.0000024	.0000060	.0000148	.0000338	.0000756
66		.0000001	.0000003	.0000009	.0000022	.0000057	.0000137	.0000317
67			.0000001	.0000003	.0000008	.0000021	.0000053	.0000127
68				.0000001	.0000003	.0000007	.0000019	.0000049
69					.0000001	.0000003	.0000007	.0000018
70						.0000001	.0000002	.0000006
71							.0000001	.0000002
72								.0000001

X	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	.9999999	1.0000000
24	.9999996	.9999998
25	.9999987	.9999995
26	.9999964	.9999986
27	.9999903	.9999960
28	.9999750	.9999893
29	.9999389	.9999727
30	.9998574	.9999339
31	.9996827	.9998472
32	.9993253	.9996626
33	.9986278	.9992878
34	.9973281	.9985607
35	.9950143	.9972135
36	.9910763	.9948270
37	.9846652	.9907833
38	.9746766	.9842259
39	.9597761	.9740447
40	.9384855	.9589036
41	.9093361	.9373278
42	.8710835	.9078571
43	.8229554	.8692653
44	.7648856	.8208012
45	.6976809	.7624240
46	.6230676	.6949659
47	.5435882	.6201754
48	.4623514	.5406110
49	.3826743	.4593890
50	.3076841	.3798246
51	.2396977	.3050341
52	.1818667	.2378760
53	.1334681	.1791988
54	.0935448	.1307147
55	.0617658	.0921489
56	.0419173	.0626728
57	.0265481	.0410965
58	.0161881	.0259553
59	.0094914	.0157741
60	.0053489	.0092167

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 96

c	.49	.50
61	.00886045	.00517300
62	.00150088	.00270065
63	.00037479	.00141993
64	.00013565	.00071230
65	.00004887	.00037174
66	.00000709	.00018948
67	.00000295	.00009641
68	.00000117	.00004873
69	.00000044	.00002407
70	.00000016	.00001240
71	.00000005	.00000614
72	.00000002	.00000303
73	.00000001	.00000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n	.01	.02	.03	.04	.05	.06	.07	.08
1	.6227634	.8590940	.9474875	.9800318	.9930946	.9975860	.9991133	.9996928
2	.9411476	.9801578	.9915902	.9973645	.9957406	.9932082	.9927225	.9971016
3	.9739400	.9869141	.9955452	.9974299	.9887780	.9952770	.9965971	.9986864
4	.9966177	.9933290	.9932867	.9965579	.9203403	.9404161	.9144775	.9565053
5	.9990109	.9956388	.9971135	.9972228	.9367463	.9981247	.9169008	.9956482
6	.9994545	.9994914	.9920964	.9929931	.9570174	.9291915	.9804856	.9972185
7	.9999585	.9994317	.9970367	.9942936	.9119731	.9638527	.9229534	.9659789
8	.9999966	.9997628	.9989199	.9940855	.9127382	.9266566	.9688090	.9516211
9	.9999996	.9991501	.9996154	.9958504	.9539712	.9281382	.9382835	.9724884
10	.9999991	.9999264	.9996885	.9955351	.9233879	.9659528	.9411302	.9476884
11		.9999942	.9991638	.9917528	.9892231	.9310231	.9767791	.9521892
12		.9999996	.9999355	.9995063	.9933267	.9933894	.9984704	.9865099
13		.9999991	.9999970	.9991341	.9911026	.9953229	.9978057	.9955794
14			.9999913	.9999327	.9993373	.9919563	.9976357	.9923078
15			.9999992	.9999974	.9999956	.9996670	.9993428	.9991661
16				.9999916	.9999850	.9992116	.9911299	.9943241
17				.9999997	.9999962	.9999627	.9993920	.9997205
18				.9999991	.9999914	.9999174	.9991274	.9996418
19					.9999993	.9999945	.9999389	.9999249
20					.9999991	.9999911	.9999111	.9999742
21						.9999994	.9999930	.9999931
22						.9999991	.9999998	.9999968
23							.9999992	.9999919
24								.9999995
25								.9999991

n	.09	.10	.11	.12	.13	.14	.15	.16
1	.9998936	.9999636	.9999877	.9999959	.9999986	.9999995	.9999999	1.0000000
2	.9998727	.9999709	.9999899	.9999964	.9999989	.9999997	.9999974	.9999991
3	.9994261	.9997765	.9999632	.9999884	.9999976	.9999993	.9999915	.9999975
4	.9988475	.9991075	.9995519	.9998447	.9999689	.9999899	.9999813	.9999954
5	.9935696	.9970861	.9985659	.9993096	.9996208	.9998783	.9999327	.9999793
6	.8786738	.9311005	.9626551	.9805924	.9909240	.9959114	.9987116	.9996000
7	.7802603	.8633518	.9192361	.9544200	.9751405	.9871685	.9955805	.9990751
8	.6537287	.7654926	.8494730	.9088235	.9463027	.9699288	.9893880	.9975947
9	.5129450	.6431685	.7524711	.8364470	.9074625	.9383557	.9644661	.9902774
10	.3752553	.5087630	.6391131	.7408667	.8455085	.8875200	.9186583	.9759600
11	.2554200	.3773444	.5049648	.6254902	.7504101	.8147167	.8781875	.9535271
12	.1616826	.2618552	.3789139	.5014710	.6383011	.7299691	.8049528	.9229302
13	.0952424	.1698916	.2672622	.3800749	.5211556	.6415068	.7131323	.8759160
14	.0522781	.1038805	.1770337	.2718372	.4089078	.5495608	.6054628	.8043594
15	.0267838	.0588397	.1101227	.1817290	.2757278	.4923068	.4923068	.6990999
16	.0128305	.0311554	.0643626	.1164577	.1887724	.2790463	.3911112	.5895755
17	.0057585	.0155616	.0353769	.0697400	.1221641	.1935922	.2911815	.4819657
18	.0024259	.0073060	.0183074	.0394172	.0747483	.1273097	.1978559	.3843030
19	.0009610	.0032292	.0089368	.0210383	.0432509	.0793514	.1319535	.2981555
20	.0003586	.0013457	.0041122	.0106020	.0236947	.0469033	.0859697	.2261467
21	.0001263	.0005296	.0017896	.0050571	.0123934	.0262850	.0537178	.0987052
22	.0000420	.0001971	.0007370	.0022846	.0060468	.0139839	.0317858	.0535334
23	.0000132	.0000694	.0002876	.0009785	.0028223	.0070661	.0176559	.0311707
24	.0000039	.0000232	.0001054	.0003979	.0012511	.0033939	.0091015	.0172954
25	.0000011	.0000074	.0000374	.0001517	.0005273	.0015507	.0044911	.0091411
26	.0000003	.0000022	.0000125	.0000565	.0002114	.0006745	.0021730	.0046058
27	.0000001	.0000006	.0000040	.0000197	.0000807	.0002795	.0009179	.0022155
28		.0000002	.0000012	.0000066	.0000294	.0001105	.0003575	.0010153
29			.0000003	.0000021	.0000102	.0000416	.0001456	.0004447
30			.0000001	.0000006	.0000034	.0000159	.0000587	.0001841
31				.0000002	.0000011	.0000059	.0000211	.0000744
32				.0000001	.0000003	.0000017	.0000075	.0000285
33					.0000001	.0000005	.0000025	.0000104
34						.0000002	.0000008	.0000037
35							.0000003	.0000012
36							.0000001	.0000004
37								.0000001

n	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999969	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999790	.9999921	.9999971	.9999990	.9999996	.9999999	1.0000000	1.0000000
5	.9998928	.9999670	.9999838	.9999936	.9999976	.9999991	.9999997	.9999999
6	.9995648	.9998136	.9999324	.9999685	.9999876	.9999952	.9999981	.9999993
7	.9985383	.9993311	.9997039	.9998725	.9999466	.9999783	.9999919	.9999966
8	.9957848	.9979541	.9990376	.9995606	.9998051	.9999160	.9999647	.9999856
9	.9894538	.9945536	.9973791	.9988832	.9996300	.9998784	.9999453	.9999813
10	.9766308	.9871721	.9932003	.9965142	.9991473	.9996118	.9998737	.9999517
11	.9535186	.9729131	.9847807	.9917424	.9976676	.9989705	.9996149	.9998829
12	.9160783	.9491574	.9691605	.9820971	.9939071	.9974781	.9989747	.9996311
13	.8611207	.9092186	.9429018	.9654022	.9872755	.9945807	.9973658	.9989657
14	.7875214	.8531161	.9026886	.9377693	.9767619	.9896068	.9944888	.9973584
15	.6970740	.7796964	.8459477	.8961199	.9613718	.9819788	.9894218	.9944518
16	.5944670	.6908754	.7723797	.8390816	.9400779	.9707170	.9814351	.9879857
17	.4869655	.5896767	.6839381	.7655148	.9118046	.9554084	.9695211	.9767153
18	.3819569	.4844895	.5850928	.6780074	.8765614	.9361345	.9534598	.9596500
19	.2863466	.3818085	.4828429	.5824388	.8347298	.9130795	.9331995	.9364800
20	.2049604	.2881181	.3815381	.4870018	.7866417	.8871872	.9087888	.9145584
21	.1399334	.2079100	.2911997	.3974318	.7328189	.8588284	.8807844	.8917849
22	.0910979	.1431388	.2106189	.3190876	.6738183	.8284849	.8496184	.8657599
23	.0565440	.0941971	.1464363	.2518119	.6101418	.7964844	.8153057	.8355965
24	.0334658	.0593990	.0974888	.1949190	.5423376	.7631398	.7779375	.8000375
25	.0188914	.0358174	.0619788	.1001911	.4710118	.7287611	.7376888	.7578605
26	.0101748	.0204341	.0374919	.0644038	.3968669	.6936550	.6948147	.7093804
27	.0052308	.0111919	.0218167	.0394880	.3206000	.6581284	.6494884	.6548888

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 97

x	.17	.18	.19	.20	.21	.22	.23	.24
28	.0025680	.0058595	.0121911	.0233402	.0414460	.0687358	.1071205	.1577413
29	.0012045	.0029121	.0064860	.0131603	.0246925	.0431466	.0706507	.1090168
30	.0005400	.0014032	.0033019	.0071050	.0140964	.0259740	.0447314	.0724071
31	.0002315	.0006425	.0016090	.0036737	.0077119	.0149953	.0271826	.0462023
32	.0000950	.0002815	.0007507	.0018196	.0040432	.0083027	.0150535	.0263172
33	.0000373	.0001181	.0003355	.0008637	.0020328	.0044094	.0080739	.0146683
34	.0000140	.0000475	.0001437	.0003929	.0009799	.0022665	.0042675	.0078226
35	.0000051	.0000183	.0000590	.0001714	.0004530	.0010981	.0021586	.0040155
36	.0000017	.0000068	.0000232	.0000717	.0002009	.0005151	.0010172	.0019673
37	.0000006	.0000024	.0000088	.0000288	.0000855	.0002319	.0004786	.0009358
38	.0000002	.0000008	.0000032	.0000111	.0000349	.0001003	.0002141	.0004266
39	.0000001	.0000003	.0000011	.0000041	.0000137	.0000416	.0000950	.0001870
40		.0000001	.0000004	.0000015	.0000052	.0000166	.0000407	.0000819
41			.0000001	.0000005	.0000019	.0000063	.0000197	.0000363
42				.0000002	.0000006	.0000023	.0000077	.0000151
43				.0000001	.0000002	.0000008	.0000029	.0000061
44					.0000001	.0000003	.0000010	.0000024
45						.0000001	.0000004	.0000009
46							.0000001	.0000004
47								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999943	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
9	.9999775	.9999908	.9999964	.9999986	.9999995	.9999998	.9999999	1.0000000
10	.9999223	.9999667	.9999861	.9999944	.9999978	.9999991	.9999997	.9999999
11	.9997604	.9998922	.9999528	.9999800	.9999917	.9999967	.9999987	.9999995
12	.9993335	.9996850	.9998555	.9999356	.9999721	.9999893	.9999952	.9999981
13	.9983138	.9991634	.9995974	.9998120	.9999147	.9999625	.9999839	.9999933
14	.9960913	.9979650	.9989732	.9994976	.9997615	.9998901	.9999509	.9999787
15	.9916463	.9954387	.9975879	.9987640	.9993860	.9997042	.9998617	.9999373
16	.9834477	.9905271	.9947530	.9971855	.9985372	.9992631	.9996401	.9998295
17	.9694417	.9816830	.9893792	.9940394	.9967606	.9982944	.9991297	.9995695
18	.9471970	.9668773	.9799090	.9882099	.9933029	.9963163	.9980372	.9989866
19	.9142418	.9437572	.9643415	.9781342	.9870262	.9935485	.9958557	.9977674
20	.8685671	.9099814	.9404011	.9618422	.9763663	.9858344	.9917806	.9953819
21	.8091899	.8636995	.9058679	.9371326	.9593857	.9746122	.9846403	.9910038
22	.7366179	.8040751	.8590351	.9018987	.9339545	.9569774	.9728778	.9834494
23	.6530501	.7317054	.7991965	.8545641	.8980709	.9308688	.9546219	.9711684
24	.5622155	.6487907	.7270267	.7945385	.8502774	.8943815	.9278765	.9533230
25	.4688578	.5589664	.6447234	.7225633	.7900867	.8461662	.8908270	.9249786
26	.3779895	.4668115	.5558350	.6408314	.7182987	.7858282	.8422224	.8874042
27	.2941112	.3771473	.4647941	.5528125	.6370997	.7142182	.7817511	.8343485
28	.2205882	.2943044	.3762466	.4628014	.5498859	.6335149	.7103086	.7778447
29	.1593190	.2215370	.2943704	.3752906	.4608297	.5470471	.6300652	.7065579
30	.1107262	.1607053	.2223179	.2943179	.3742820	.4580755	.5442878	.6267399
31	.0740117	.1122592	.1619122	.2225420	.2941543	.3732231	.4569357	.5416006
32	.0478614	.0754705	.1136250	.1629505	.2234101	.2938860	.3721156	.4550074
33	.0293769	.0488112	.0767895	.1148322	.1638287	.2235578	.2935187	.3709610
34	.0174375	.0303615	.0499542	.0779740	.1158886	.1645586	.2230654	.2930571
35	.0099461	.0181594	.0312711	.0509028	.0790292	.1168012	.1651446	.2240487
36	.0054513	.0104424	.0188327	.0321060	.0519297	.0799599	.1175764	.1655946
37	.0028710	.0057729	.0109097	.0194565	.0328668	.0527674	.0807705	.1182200
38	.0014529	.0030680	.0060784	.0113463	.0200300	.0333542	.0535084	.0814652
39	.0007056	.0015674	.0033570	.0063664	.0117512	.0205528	.0341692	.0541551
40	.0003302	.0007698	.0016783	.0034367	.0066357	.0121233	.0210248	.0347126
41	.0001483	.0003635	.0008316	.0017846	.0036040	.0068850	.0124620	.0214459
42	.0000640	.0001650	.0003962	.0008914	.0018856	.0037639	.0071136	.0127665
43	.0000266	.0000720	.0001816	.0004283	.0009486	.0019805	.0039097	.0073205
44	.0000105	.0000302	.0000800	.0001979	.0004591	.0010028	.0020686	.0040425
45	.0000041	.0000122	.0000339	.0000879	.0002138	.0004886	.0010514	.0021494
46	.0000015	.0000047	.0000138	.0000376	.0000957	.0002290	.0005162	.0011001
47	.0000005	.0000018	.0000054	.0000154	.0000412	.0001033	.0002434	.0005419
48	.0000002	.0000006	.0000020	.0000061	.0000171	.0000448	.0001104	.0002568
49	.0000001	.0000002	.0000007	.0000023	.0000069	.0000187	.0000482	.0001171
50		.0000001	.0000003	.0000008	.0000026	.0000075	.0000202	.0000514
51			.0000001	.0000003	.0000010	.0000029	.0000082	.0000217
52				.0000001	.0000003	.0000011	.0000032	.0000088
53					.0000001	.0000004	.0000012	.0000034
54						.0000001	.0000004	.0000013
55							.0000001	.0000005
56								.0000002
57								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$B(x;n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 97$$

x	.33	.34	.35	.36	.37	.38	.39	.40
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999973	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999910	.9999963	.9999985	.9999994	.9999998	.9999999	1.0000000	1.0000000
15	.9999724	.9999882	.9999951	.9999980	.9999992	.9999997	.9999999	1.0000000
16	.9999216	.9999651	.9999849	.9999937	.9999974	.9999990	.9999996	.9999999
17	.9997835	.9999040	.9999567	.9999810	.9999923	.9999967	.9999987	.9999995
18	.9994929	.9997540	.9998843	.9999472	.9999767	.9999900	.9999958	.9999983
19	.9988347	.9994106	.9997111	.9998628	.9999368	.9999718	.9999878	.9999949
20	.9974869	.9986752	.9993333	.9996651	.9998394	.9999254	.9999664	.9999854
21	.9948978	.9971975	.9985090	.9992316	.9996184	.9998145	.9999131	.9999606
22	.9902221	.9944065	.9969013	.9983375	.9991381	.9995653	.9997882	.9999000
23	.9822663	.9894305	.9939106	.9966000	.9981617	.9990376	.9995121	.9997606
24	.9694886	.9810957	.9886595	.9934111	.9962956	.9979829	.9989367	.9994574
25	.9500836	.9678425	.9799414	.9870857	.9929164	.9958899	.9978024	.9988343
26	.9221752	.9479065	.9662337	.9780071	.9871212	.9924230	.9956847	.9976212
27	.8841096	.9194664	.9457938	.9646653	.9776942	.9863690	.9919353	.9953816
28	.8348073	.8809398	.9165520	.9437473	.9631403	.9766117	.9856317	.9914555
29	.7740992	.8313222	.8778317	.9143314	.9417635	.9616610	.9755563	.9849120
30	.7029555	.7705057	.8279772	.8749622	.9119041	.9398585	.9602296	.9745327
31	.6215294	.6994916	.7670558	.8247665	.8721482	.9095696	.9380185	.9580403
32	.5309790	.6204251	.6961573	.7637423	.8216648	.8694469	.9073270	.9362493
33	.4531878	.5364169	.6174190	.6929446	.7605581	.8187274	.8686557	.9051758
34	.3697606	.4511744	.5339887	.6145041	.6898463	.7574971	.8150896	.8643721
35	.2925054	.3685151	.4492640	.5314494	.6116738	.6868556	.7545534	.8131674
36	.2240135	.2918673	.3672253	.4471565	.5290343	.6089221	.6839665	.7517218
37	.1659147	.2238550	.2911459	.3658915	.4454474	.5266590	.6062437	.6811732
38	.1187373	.1661104	.2236077	.2903437	.3645141	.4435353	.5243197	.6036333
39	.0820478	.1191330	.1661865	.2232454	.2894631	.3630930	.4416181	.5220123
40	.0547097	.0825219	.1194114	.1661473	.2227817	.2885050	.3616281	.4396938
41	.0351854	.0551746	.0828909	.1195766	.1659966	.2222195	.2874734	.3601191
42	.0218162	.0355809	.0585519	.0831578	.1196321	.1657329	.2215614	.2863670
43	.0130365	.0221360	.0359239	.0558437	.0833254	.1195809	.1653741	.2208096
44	.0075053	.0132717	.0224056	.0361918	.0560519	.0833964	.1194261	.1649079
45	.0041618	.0076674	.0134721	.0226254	.0363937	.0561783	.0833730	.1191702
46	.0022223	.0042671	.0078066	.0136375	.0227959	.0365306	.0562248	.0832576
47	.0011424	.0022870	.0043550	.0079225	.0137682	.0229178	.0366038	.0561930
48	.0005652	.0011801	.0023431	.0044342	.0080151	.0138643	.0229916	.0366144
49	.0002691	.0005861	.0012129	.0023902	.0044954	.0080043	.0139261	.0230181
50	.0001233	.0002801	.0006043	.0012405	.0024203	.0045416	.0081301	.0139540
51	.0000543	.0001288	.0002887	.0006197	.0012629	.0024572	.0045727	.0081529
52	.0000230	.0000570	.0001336	.0002978	.0006321	.0012798	.0024767	.0045088
53	.0000094	.0000242	.0000593	.0001377	.0003044	.0006415	.0012913	.0024870
54	.0000037	.0000099	.0000253	.0000612	.0001410	.0003093	.0006478	.0012972
55	.0000014	.0000039	.0000104	.0000262	.0000628	.0001434	.0003125	.0006509
56	.0000005	.0000015	.0000041	.0000107	.0000269	.0000639	.0001450	.0003141
57	.0000002	.0000005	.0000015	.0000044	.0000110	.0000274	.0000646	.0001457
58	.0000001	.0000002	.0000006	.0000016	.0000044	.0000112	.0000277	.0000649
59		.0000001	.0000002	.0000006	.0000017	.0000044	.0000114	.0000278
60			.0000001	.0000002	.0000006	.0000017	.0000045	.0000114
61				.0000001	.0000002	.0000006	.0000017	.0000045
62					.0000001	.0000002	.0000006	.0000017
63						.0000001	.0000002	.0000006
64							.0000001	.0000002
65								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999979	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999938	.9999975	.9999990	.9999996	.9999999	.9999999	1.0000000	1.0000000
21	.9999827	.9999926	.9999970	.9999988	.9999995	.9999998	.9999999	1.0000000
22	.9999543	.9999798	.9999914	.9999964	.9999986	.9999994	.9999998	.9999999
23	.9998863	.9999477	.9999768	.9999900	.9999958	.9999983	.9999994	.9999998
24	.9997320	.9998720	.9999408	.9999735	.9999886	.9999952	.9999981	.9999993
25	.9994016	.9997028	.9998572	.9999337	.9999702	.9999871	.9999946	.9999978
26	.9987310	.9993451	.9996730	.9998422	.9999264	.9999668	.9999856	.9999936
27	.9974406	.9986277	.9992883	.9996431	.9998270	.9999190	.9999634	.9999840
28	.9950825	.9972617	.9985251	.9992318	.9996133	.9998119	.9999116	.9999599
29	.9909858	.9947888	.9970857	.9984240	.9991741	.9995838	.9997970	.9999044
30	.9842123	.9905282	.9945022	.9969137	.9983250	.9991216	.9995550	.9997824
31	.9735431	.9835348	.9900044	.9942239	.9967466	.9982290	.9990687	.9995271
32	.9575188	.9725806	.9828015	.9896563	.9939556	.9965856	.9981365	.9990179
33	.9345518	.9562426	.9716743	.9822543	.9892456	.9935984	.9964516	.9980183
34	.9031151	.9329264	.9550214	.9702980	.9816552	.9880539	.9934536	.9962854
35	.8619037	.9011445	.9313739	.9513864	.9699652	.9810058	.9884825	.9933224
36	.8105570	.8597184	.8992632	.9294940	.9527493	.9691747	.9805476	.9881110

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 97

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
37	.7489976	.8080548	.8575443	.8974707	.9284897	.9517003	.9684290	.9800422
38	.6784708	.7463763	.8056577	.8554696	.8957666	.9271590	.9507115	.9677294
39	.6010864	.6758545	.7438538	.8033629	.8534927	.8941504	.9259034	.9497836
40	.5197335	.5985986	.6733200	.7414265	.8011676	.8516122	.8926219	.9247232
41	.4377602	.5174799	.5961660	.6708633	.7390910	.7990696	.8498269	.8911809
42	.3585656	.4358154	.5152483	.5937847	.6684807	.7368444	.7970668	.8481359
43	.2853876	.3569670	.4338574	.5130356	.5914512	.6661689	.7346830	.7951574
44	.2199659	.2839357	.3553224	.4318842	.5108390	.5891623	.6639247	.7326068
45	.1643415	.2190317	.2826117	.3536310	.4298936	.5086555	.5869150	.6617453
46	.1188154	.1636769	.2180084	.2812158	.3518917	.4278837	.5064826	.5847061
47	.0830521	.1183639	.1629156	.2168966	.2797477	.3501034	.4258522	.5043174
48	.0560845	.0827584	.1178173	.1620592	.2156972	.2782071	.3482646	.4237971
49	.0365635	.0559009	.0823782	.1171774	.1611087	.2144104	.2768935	.3463738
50	.0229981	.0364523	.0556435	.0819131	.1164454	.1600649	.2130362	.2749061
51	.0139483	.0229322	.0362819	.0553137	.0813644	.1156225	.1589286	.2115747
52	.0081527	.0139097	.0228214	.0360534	.0549129	.0807333	.1147096	.1577000
53	.0045900	.0081300	.0138386	.0226664	.0357680	.0544422	.0800212	.1137077
54	.0024879	.0045764	.0080850	.0137358	.0224685	.0354267	.0539630	.0732289
55	.0012976	.0024797	.0045483	.0080183	.0136019	.0222279	.0350307	.0532962
56	.0006510	.0012926	.0024624	.0045061	.0079303	.0134377	.0219463	.0345811
57	.0003139	.0006479	.0012823	.0024364	.0044500	.0078217	.0132440	.0216245
58	.0001455	.0003121	.0006419	.0012667	.0024018	.0043805	.0076931	.0130217
59	.0000647	.0001444	.0003087	.0006328	.0012461	.0023589	.0042882	.0075452
60	.0000277	.0000642	.0001425	.0003037	.0006210	.0012206	.0023082	.0042036
61	.0000113	.0000273	.0000632	.0001398	.0002971	.0006065	.0011905	.0022500
62	.0000045	.0000112	.0000268	.0000618	.0001364	.0002891	.0005894	.0011563
63	.0000017	.0000044	.0000109	.0000262	.0000600	.0001322	.0002798	.0005699
64	.0000006	.0000016	.0000043	.0000106	.0000253	.0000579	.0001273	.0002693
65	.0000002	.0000006	.0000016	.0000041	.0000102	.0000243	.0000555	.0001219
66	.0000001	.0000002	.0000006	.0000015	.0000039	.0000097	.0000231	.0000526
67		.0000001	.0000002	.0000005	.0000015	.0000037	.0000092	.0000218
68			.0000001	.0000002	.0000005	.0000014	.0000035	.0000086
69				.0000001	.0000002	.0000005	.0000013	.0000033
70					.0000001	.0000002	.0000004	.0000012
71						.0000001	.0000001	.0000004
72								.0000001

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	.9999999	1.0000000
24	.9999997	.9999999
25	.9999991	.9999997
26	.9999975	.9999990
27	.9999933	.9999973
28	.9999825	.9999926
29	.9999566	.9999810
30	.9998973	.9999533
31	.9997683	.9998905
32	.9995004	.9997549
33	.9989696	.9994752
34	.9979650	.9989242
35	.9961481	.9978871
36	.9930059	.9960203
37	.9878066	.9928052
38	.9795710	.9875046
39	.9670774	.9791353
40	.9489179	.9664741
41	.9236193	.9481153
42	.8898273	.9225921
43	.8465382	.8885612
44	.7933398	.8450332
45	.7306118	.7916126
46	.6596281	.7286949
47	.5825331	.6575706
48	.5021574	.5803932
49	.4217161	.5000000
50	.3444293	.4196068
51	.2731437	.3424294
52	.2100253	.2713651
53	.1563794	.2081874
54	.1136173	.1549668
55	.0783576	.1114388
56	.0526231	.0774079
57	.0340791	.0518847

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 97

NP	.49	.50
58	.02126336	.0334259
59	.01277219	.0208647
60	.0073788	.0124954
61	.0040978	.0071948
62	.0021847	.0039797
63	.0011178	.0021129
64	.0005483	.0010758
65	.0002577	.0005248
66	.0001159	.0002451
67	.0000498	.0001095
68	.0000205	.0000467
69	.0000080	.0000190
70	.0000030	.0000074
71	.0000011	.0000027
72	.0000004	.0000010
73	.0000001	.0000003
74		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 90

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.6265357	.8619122	.9494606	.9816945	.9934399	.9976744	.9991847	.9997174
2	.2568438	.5857365	.7962794	.9069472	.9596033	.9831272	.9934706	.9973089
3	.0757321	.3123789	.5665075	.7550953	.8733311	.9300929	.9742159	.9911516
4	.0171910	.1338597	.3391045	.5544920	.7277622	.8461077	.9183358	.9688078
5	.0031770	.0473326	.1720687	.3851382	.5459260	.7066632	.8238056	.9305168
6	.0004801	.0141344	.0745469	.1990663	.3660039	.5393275	.6900402	.8650929
7	.0000625	.0036329	.0283885	.0982375	.2192253	.3737730	.5539107	.7674781
8	.0000071	.0008162	.0094634	.0430218	.1176943	.2348884	.3795951	.6394897
9	.0000007	.0001623	.0028055	.0168519	.0569002	.1340493	.2474203	.4940990
10	.0000001	.0000289	.0007464	.0059477	.0249171	.0696839	.1479309	.3457924
11		.0000046	.0001796	.0019041	.0099313	.0331189	.0812837	.1898891
12		.0000007	.0000393	.0005562	.0036215	.0144474	.0411580	.0917643
13		.0000001	.0000079	.0001490	.0012138	.0058069	.0192522	.0408538
14			.0000015	.0000368	.0003755	.0021583	.0083476	.0241495
15			.0000002	.0000084	.0001076	.0007444	.0033643	.0211375
16				.0000018	.0000287	.0002390	.0012638	.0047914
17				.0000004	.0000071	.0000716	.0004437	.0019880
18				.0000001	.0000017	.0000201	.0001459	.0007881
19					.0000004	.0000053	.0000450	.0005583
20					.0000001	.0000013	.0000131	.0000863
21						.0000003	.0000036	.0000872
22						.0000001	.0000009	.0000081
23							.0000002	.0000023
24							.0000001	.0000006
25								.0000002

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999032	.9999672	.9999890	.9999964	.9999988	.9999996	.9999999	1.0000000
2	.9989646	.9996101	.9998562	.9999479	.9999815	.9999935	.9999978	.9999993
3	.9944683	.9976859	.9990596	.9996276	.9998560	.9999456	.9999799	.9999927
4	.9802136	.9908444	.9959094	.9982295	.9992558	.9996956	.9998787	.9999528
5	.9467446	.9727902	.9866621	.9937018	.9971259	.9989298	.9994548	.9997723
6	.8845144	.9350771	.9651752	.9820945	.9911435	.9957717	.9980473	.9991259
7	.7891175	.8701267	.9240122	.9575607	.9772854	.9883089	.9941988	.9972174
8	.6651166	.7752785	.8571470	.9135911	.9500690	.9723422	.9852709	.9924397
9	.5256155	.6554009	.7631413	.8453582	.9038104	.9427759	.9673506	.9820881
10	.3876474	.5222036	.6469544	.7523643	.8346885	.8946447	.9357865	.9623708
11	.2662052	.3904862	.5191489	.6395114	.7427643	.8249105	.8860561	.9289458
12	.1701190	.2734041	.3927794	.5153773	.6328779	.7340937	.8159360	.8780109
13	.1018220	.1790880	.2795438	.3946424	.5178343	.6269085	.7366235	.8074732
14	.0561449	.1092616	.1869588	.2848257	.3961590	.5114791	.6514953	.7198025
15	.0290774	.0629938	.1174829	.1939060	.2894010	.3973914	.5693802	.6165443
16	.0140862	.0338939	.0693962	.1244764	.2000679	.2933860	.3983073	.5072130
17	.0063949	.0171210	.0385653	.0753628	.1308219	.2055550	.2960713	.3991838
18	.0027258	.0081316	.0201850	.0430582	.0809124	.1365892	.2104596	.2999290
19	.0010926	.0036369	.0099622	.0232349	.0473525	.0860673	.1410369	.2148539
20	.0004188	.0015341	.0046423	.0118531	.0262300	.0514377	.0908512	.1466233
21	.0001472	.0006112	.0020451	.0057225	.0137756	.0291702	.0553098	.0952879
22	.0000496	.0002303	.0008528	.0026173	.0068589	.0157060	.0320138	.0589689
23	.0000158	.0000822	.0003370	.0011553	.0032415	.0080346	.0176250	.0347563
24	.0000048	.0000270	.0001264	.0004675	.0014554	.0039080	.0092347	.0195169
25	.0000014	.0000089	.0000450	.0001830	.0006214	.0018087	.0046076	.0104458
26	.0000004	.0000027	.0000152	.0000681	.0002525	.0007972	.0021907	.0053314
27	.0000001	.0000008	.0000049	.0000241	.0000977	.0003348	.0009931	.0025963
28		.0000002	.0000015	.0000082	.0000361	.0001341	.0004296	.0012070
29		.0000001	.0000004	.0000026	.0000127	.0000513	.0001774	.0005360
30			.0000001	.0000008	.0000043	.0000187	.0000700	.0002375
31				.0000002	.0000014	.0000065	.0000264	.0000923
32				.0000001	.0000004	.0000022	.0000095	.0000350
33					.0000001	.0000007	.0000033	.0000133
34						.0000002	.0000011	.0000047
35						.0000001	.0000003	.0000016
36							.0000001	.0000005
37								.0000002

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999974	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999821	.9999933	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000
5	.9999074	.9999633	.9999858	.9999946	.9999980	.9999993	.9999997	.9999999
6	.9996201	.9998394	.9999340	.9999735	.9999897	.9999961	.9999985	.9999995
7	.9987077	.9994180	.9997454	.9998917	.9999582	.9999829	.9999929	.9999973
8	.9962510	.9982040	.9991642	.9996230	.9998648	.9999296	.9999708	.9999882
9	.9905301	.9956457	.9976132	.9988587	.9995708	.9998618	.9999559	.9999557
10	.9788107	.9885008	.9939752	.9969480	.9985033	.9992885	.9996719	.9998531
11	.9574477	.9754797	.9863804	.9926947	.9962140	.9981004	.9990766	.9995647
12	.9224131	.9526135	.9721283	.9841941	.9913459	.9954196	.9976540	.9988361
13	.8704635	.9162227	.9478910	.9687832	.9819640	.9899376	.9945731	.9971680
14	.8000333	.8633775	.9102835	.9432959	.9654657	.9797089	.9881854	.9936831
15	.7124501	.7920480	.8567171	.9046098	.9388387	.9621027	.9774449	.9870016
16	.6119932	.7063712	.7863573	.8504493	.8992016	.9345860	.9589773	.9751858
17	.5052578	.6077845	.7007420	.7802098	.8445438	.8940458	.9303614	.9558098
18	.3998083	.5033986	.6038729	.6955093	.7744613	.8389732	.8891918	.9263463
19	.3026170	.4003857	.5016223	.6002212	.6906284	.7690734	.8337188	.8844486
20	.2187994	.3044824	.4006340	.4999179	.5967981	.6860614	.7640128	.8287399
21	.1509880	.2223474	.3070640	.4008685	.4982764	.5935776	.6817760	.7593505
22	.0994000	.1549726	.2255409	.3048240	.4010017	.4966896	.5905273	.6777443
23	.0624182	.1032090	.1586115	.2284163	.3104993	.4010441	.4951515	.5876583
24	.0373801	.0656625	.1067343	.1619347	.2310047	.3119088	.4010044	.4936854
25	.0213690	.0399066	.0687080	.1099960	.1649689	.2333327	.3131236	.4005299
26	.0116566	.0231715	.0423052	.0715614	.1130094	.1677367	.2354232	.3141786
27	.0060713	.0128573	.0249164	.0445832	.0742296	.1157904	.1702590	.2372968

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 90

k	.17	.18	.19	.20	.21	.22	.23	.24
28	.0010207	.0068197	.0140395	.0265977	.0467401	.0767197	.1183532	.1725535
29	.0014363	.0034591	.0075700	.0151963	.0282108	.0487762	.0790387	.1207107
30	.0006530	.0016784	.0039069	.0083160	.0163216	.0297580	.0506928	.0811934
31	.0002840	.0007794	.0019307	.0043599	.0090526	.0174106	.0312189	.0524914
32	.0001183	.0003465	.0009138	.0021904	.0044146	.0087751	.0164592	.0326096
33	.0000471	.0001475	.0004144	.0010548	.0020552	.0042659	.0104792	.0194640
34	.0000180	.0000602	.0001801	.0004871	.0012010	.0027223	.0057120	.0111614
35	.0000066	.0000235	.0000751	.0002157	.0005437	.0013508	.0029896	.0061492
36	.0000023	.0000088	.0000300	.0000916	.0002539	.0006434	.0015027	.0032549
37	.0000008	.0000032	.0000115	.0000374	.0001097	.0002942	.0007255	.0016554
38	.0000003	.0000011	.0000042	.0000146	.0000455	.0001292	.0003364	.0008090
39	.0000001	.0000004	.0000015	.0000055	.0000181	.0000545	.0001499	.0003799
40		.0000001	.0000005	.0000020	.0000069	.0000221	.0000642	.0001715
41			.0000002	.0000007	.0000026	.0000086	.0000264	.0000744
42			.0000001	.0000002	.0000009	.0000032	.0000104	.0000310
43				.0000001	.0000003	.0000012	.0000040	.0000124
44					.0000001	.0000004	.0000014	.0000048
45						.0000001	.0000005	.0000018
46							.0000002	.0000006
47							.0000001	.0000002
48								.0000001

k	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999954	.9999983	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
9	.9999817	.9999926	.9999971	.9999989	.9999996	.9999999	.9999999	1.0000000
10	.9999361	.9999730	.9999889	.9999956	.9999983	.9999993	.9999998	.9999999
11	.9999009	.9999116	.9999618	.9999840	.9999935	.9999974	.9999990	.9999996
12	.9994403	.9997389	.9998418	.9999480	.9999778	.9999908	.9999963	.9999985
13	.9985687	.9992990	.9996670	.9998466	.9999314	.9999702	.9999874	.9999949
14	.9966469	.9982766	.9991417	.9995856	.9998059	.9999118	.9999611	.9999834
15	.9927575	.9960955	.9979619	.9988694	.9994949	.9997599	.9998893	.9999505
16	.9854973	.9918041	.9955184	.9976275	.9987834	.9993954	.9997088	.9998640
17	.9729432	.9839825	.9908301	.9949203	.9972758	.9985050	.9992879	.9996527
18	.9527581	.9700268	.9834659	.9898421	.9943057	.9969097	.9983759	.9991731
19	.9234806	.9497684	.9715441	.9809554	.9888484	.9936784	.9965320	.9981575
20	.8799858	.9187631	.9468650	.9664039	.9794577	.9878486	.9930439	.9961453
21	.8240342	.8757328	.9151918	.9440513	.9643101	.9779789	.9868538	.9924048
22	.7547609	.8195775	.8716300	.9117642	.9413296	.9622679	.9765242	.9858668
23	.6739420	.7505215	.8153530	.8678178	.9084772	.9387014	.9602813	.9750983
24	.5849242	.6703485	.7465126	.8113457	.8641375	.9053277	.9361676	.9583535
25	.4921972	.5823207	.6669453	.7427163	.8075420	.8606300	.9023124	.9337288
26	.4007066	.4907718	.5798355	.6637163	.7391172	.8039296	.8572098	.8994280
27	.3150808	.4004600	.4893754	.5774578	.6606474	.7357012	.8004972	.8541075
28	.2389689	.3158435	.4001544	.4880045	.5751779	.6577359	.7324558	.7972347
29	.1746363	.2404565	.3164770	.3997936	.4866560	.5729874	.6549406	.7293697
30	.1228744	.1765215	.2417721	.3169903	.3993808	.4853270	.5708788	.6522817
31	.0831903	.1244852	.1782217	.2429273	.3173913	.3989610	.4840146	.5688452
32	.0541740	.0850356	.1266625	.1797481	.2439343	.3176871	.3984098	.4827172
33	.0339230	.0557426	.0867351	.1281054	.1811107	.2447962	.3178837	.3978559
34	.0204223	.0351584	.0571997	.0882943	.1297916	.1823183	.2455269	.3179863
35	.0118190	.0213319	.0363155	.0585475	.0897184	.1311284	.1833790	.2461314
36	.0065750	.0124488	.0221911	.0373943	.0597886	.0910123	.1323225	.1842999
37	.0035161	.0069869	.0130489	.0229983	.0383950	.0609252	.0921803	.1333799
38	.0018074	.0037712	.0073028	.0136172	.0237526	.0393182	.0619596	.0932267
39	.0008932	.0019575	.0040107	.0077608	.0141521	.0244537	.0401643	.0628943
40	.0004243	.0009772	.0021045	.0042570	.0081192	.0146522	.0250996	.0409342
41	.0001938	.0004691	.0010603	.0022472	.0044046	.0084565	.0151164	.0256913
42	.0000851	.0002166	.0005138	.0011415	.0023045	.0047007	.0087716	.0155439
43	.0000359	.0000962	.0002395	.0005579	.0011203	.0025155	.0049029	.0090632
44	.0000146	.0000411	.0001074	.0002624	.0005311	.0012961	.0026393	.0050915
45	.0000057	.0000169	.0000463	.0001187	.0002349	.0006428	.0013681	.0027553
46	.0000021	.0000067	.0000192	.0000517	.0001300	.0003069	.0006828	.0014358
47	.0000008	.0000025	.0000077	.0000216	.0000570	.0001410	.0003280	.0007205
48	.0000003	.0000009	.0000029	.0000087	.0000241	.0000623	.0001517	.0003481
49	.0000001	.0000003	.0000011	.0000034	.0000098	.0000265	.0000675	.0001618
50		.0000001	.0000004	.0000013	.0000038	.0000108	.0000289	.0000724
51			.0000001	.0000005	.0000014	.0000043	.0000119	.0000318
52				.0000002	.0000005	.0000016	.0000047	.0000129
53				.0000001	.0000002	.0000006	.0000018	.0000051
54					.0000001	.0000002	.0000007	.0000020
55						.0000001	.0000002	.0000007
56							.0000001	.0000003
57								.0000001

k	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(o,n,p) = \sum_{r=0}^{p_r} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 98

r/p	.33	.34	.35	.36	.37	.38	.39	.40
12	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999980	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999931	.9999972	.9999989	.9999996	.9999998	.9999999	1.0000000	1.0000000
15	.9999785	.9999910	.9999963	.9999985	.9999994	.9999998	.9999999	1.0000000
16	.9999384	.9999729	.9999885	.9999952	.9999981	.9999993	.9999997	.9999999
17	.9998358	.9999247	.9999665	.9999856	.9999940	.9999976	.9999990	.9999996
18	.9995921	.9998050	.9999096	.9999594	.9999823	.9999929	.9999970	.9999988
19	.9990519	.9995274	.9997717	.9998932	.9999516	.9999787	.9999909	.9999963
20	.9979317	.9989252	.9994591	.9997363	.9998755	.9999430	.9999748	.9999892
21	.9957522	.9976999	.9987940	.9993877	.9996989	.9998566	.9999339	.9999705
22	.9917681	.9953554	.9974640	.9986594	.9993138	.9996600	.9998369	.9999243
23	.9848917	.9911288	.9949574	.9972255	.9985223	.9992381	.9996198	.9998164
24	.9730053	.9839326	.9904974	.9945604	.9969861	.9983837	.9991611	.9995787
25	.9564873	.9723486	.9829927	.9898756	.9941667	.9967473	.9982448	.9990835
26	.9313850	.9546848	.9710314	.9820754	.9892654	.9937784	.9965106	.9981064
27	.8966712	.9291361	.9529478	.9697564	.9811834	.9886695	.9933976	.9958775
28	.8510770	.8940389	.9269816	.9512778	.9685259	.9803194	.9880901	.9930860
29	.7941329	.8481922	.8915278	.9249211	.9496760	.9673422	.9794857	.9875894
30	.7264329	.7911833	.8454473	.8891351	.9229539	.9481434	.9662070	.9786844
31	.6497400	.7236364	.7883783	.8428369	.8868579	.9210794	.9466809	.9651281
32	.5666806	.6473077	.7209716	.7857110	.8403563	.8846935	.9192967	.9452889
33	.4814319	.5649797	.6449774	.7184318	.7831750	.8380008	.8826395	.9176052
34	.3972586	.4801569	.5631373	.6427427	.7160097	.7807646	.8357664	.8806935
35	.3179996	.3966193	.4788901	.5613491	.6405976	.7136994	.7784745	.8336495
36	.2466159	.3179276	.3959391	.4776299	.5596109	.6385369	.7114954	.7763001
37	.1850873	.2469858	.3177737	.3953189	.4763745	.5579190	.6365556	.7093927
38	.1343058	.1857470	.2472460	.3175409	.3944594	.4751223	.5562700	.6346493
39	.0941553	.1351053	.1862839	.2474008	.3172380	.3936610	.4738717	.5546607
40	.0637313	.0949697	.1357827	.1867026	.2474538	.3168489	.3928242	.4736212
41	.0416284	.0644727	.0956731	.1363421	.1870071	.2474083	.3153937	.3919490
42	.0262201	.0422480	.0651206	.0962686	.1367870	.1872009	.2472471	.3150679
43	.0159336	.0267100	.0427937	.0656768	.0967589	.1371206	.1872872	.2470326
44	.0093306	.0162856	.0271370	.0432665	.0661431	.0971465	.1373459	.1872686
45	.0052652	.0095729	.0165988	.0275093	.0436672	.0665212	.0974337	.1374653
46	.0028624	.0054232	.0097895	.0168732	.0278271	.0439968	.0668126	.0976326
47	.0014988	.0029602	.0055650	.0099799	.0171085	.0280907	.0442560	.0670189
48	.0007557	.0015564	.0030483	.0056900	.0101437	.0173046	.0283004	.0444459
49	.0003668	.0007891	.0016084	.0031261	.0057977	.0102807	.0174617	.0284566
50	.0001714	.0003842	.0008173	.0016544	.0031931	.0058878	.0103906	.0175796
51	.0000771	.0001802	.0003998	.0008432	.0016941	.0032493	.0059601	.0104733
52	.0000333	.0000814	.0001883	.0004137	.0008655	.0017272	.0032948	.0060145
53	.0000139	.0000353	.0000853	.0001953	.0004256	.0008840	.0017536	.0033277
54	.0000056	.0000148	.0000372	.0000887	.0002014	.0004355	.0008987	.0017731
55	.0000021	.0000059	.0000156	.0000388	.0000917	.0002064	.0004433	.0009094
56	.0000008	.0000023	.0000063	.0000163	.0000401	.0000941	.0002103	.0004488
57	.0000003	.0000008	.0000024	.0000066	.0000169	.0000412	.0000960	.0002130
58	.0000001	.0000003	.0000009	.0000026	.0000068	.0000174	.0000421	.0000972
59		.0000001	.0000003	.0000010	.0000027	.0000070	.0000177	.0000426
60			.0000001	.0000003	.0000010	.0000027	.0000072	.0000179
61				.0000001	.0000004	.0000010	.0000028	.0000073
62					.0000001	.0000004	.0000010	.0000028
63						.0000001	.0000004	.0000010
64							.0000001	.0000004
65								.0000001

r/p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999995	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999985	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999955	.9999982	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
21	.9999873	.9999947	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000
22	.9999660	.9999852	.9999939	.9999975	.9999990	.9999996	.9999999	1.0000000
23	.9999142	.9999612	.9999830	.9999928	.9999971	.9999988	.9999996	.9999998
24	.9997953	.9999038	.9999563	.9999808	.9999918	.9999967	.9999987	.9999995
25	.9995371	.9997738	.9998932	.9999512	.9999785	.9999908	.9999962	.9999985
26	.9990059	.9994953	.9997528	.9998824	.9999461	.9999761	.9999898	.9999958
27	.9979697	.9989290	.9994538	.9997307	.9998717	.9999410	.9999738	.9999888
28	.9960493	.9978354	.9986533	.9994128	.9997095	.9998612	.9999360	.9999715
29	.9926655	.9958274	.9970047	.9987794	.9993728	.9996887	.9998509	.9999311
30	.9869895	.9923176	.9956131	.9975782	.9987080	.9993348	.9996687	.9998410
31	.9779175	.9864720	.9919840	.9954074	.9974569	.9986396	.9992978	.9996497
32	.9640887	.9771866	.9859787	.9916661	.9958116	.9973416	.9985746	.9993683
33	.9439688	.9631084	.9764934	.9855112	.9933651	.9950865	.9972389	.9988137
34	.9160042	.9427192	.9631821	.9758393	.9850709	.9910829	.9946538	.9977316
35	.8788535	.9144929	.9415423	.9613111	.9732257	.9846591	.9908189	.9956987
36	.8316460	.8771173	.9130708	.9404379	.9604963	.9746838	.9842770	.9925759
37	.7742369	.8297535	.8754834	.9117373	.9394064	.9597385	.9741848	.9878838
38	.7073868	.7722812	.8279689	.8739501	.9104920	.9386480	.9590387	.9813696
39	.6320140	.7054737	.7704295	.8262898	.8725159	.9093344	.9375638	.9583976

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 90

k	.41	.42	.43	.44	.45	.46	.47	.48
40	.5530882	.6310461	.7036495	.7686785	.8247139	.8711798	.9082642	.9367520
41	.4713693	.5515498	.6293422	.7019111	.7670255	.8232392	.8699406	.9072812
42	.3910354	.4701145	.5500429	.6276993	.7002554	.7654680	.8218641	.8687975
43	.3158786	.3900833	.4688585	.5448652	.6261145	.6986796	.7640038	.8205871
44	.2467068	.3146088	.3890985	.4675908	.5471145	.6245853	.6971018	.7626311
45	.1871475	.2462914	.3138773	.3880624	.4663190	.5456887	.6231095	.6957588
46	.1374811	.1869259	.2457878	.3130785	.3869926	.4650387	.5442858	.6216849
47	.0977151	.1373953	.1866055	.2451970	.3123125	.3858823	.4637485	.5429040
48	.0671418	.0977187	.1378096	.1861877	.2445199	.3112794	.3847308	.4624469
49	.0445671	.0671811	.0976171	.1369254	.1856735	.2437569	.3108789	.3835370
50	.0285599	.0446207	.0671394	.0974294	.1365439	.1850638	.2429082	.3092106
51	.0176587	.0286107	.0446074	.0670174	.0971508	.1360660	.1843592	.2419737
52	.0105289	.0176991	.0286094	.0445280	.0668161	.0967823	.1354925	.1835598
53	.0060507	.0105574	.0177012	.0285567	.0443932	.0665361	.0963248	.1348240
54	.0033498	.0060689	.0105590	.0176653	.0284532	.0441738	.0661785	.0957787
55	.0017857	.0033603	.0060691	.0105340	.0175910	.0282994	.0439007	.0657439
56	.0009161	.0017912	.0033594	.0060514	.0104835	.0174812	.0280960	.0435644
57	.0004521	.0009187	.0017897	.0033470	.0060161	.0104050	.0173341	.0278437
58	.0002146	.0004532	.0009172	.0017814	.0033235	.0059635	.0103020	.0171511
59	.0000978	.0002149	.0004520	.0009117	.0017661	.0032869	.0058938	.0101739
60	.0000429	.0000979	.0002140	.0004485	.0009023	.0017442	.0032435	.0058075
61	.0000180	.0000428	.0000973	.0002119	.0004439	.0008890	.0017158	.0031877
62	.0000073	.0000180	.0000425	.0000961	.0002087	.0004351	.0008719	.0016812
63	.0000028	.0000072	.0000178	.0000418	.0000944	.0002044	.0004853	.0008513
64	.0000010	.0000028	.0000071	.0000174	.0000409	.0000921	.0001990	.0004136
65	.0000004	.0000010	.0000027	.0000070	.0000170	.0000397	.0000892	.0001926
66	.0000001	.0000004	.0000010	.0000027	.0000068	.0000164	.0000383	.0000859
67		.0000001	.0000004	.0000010	.0000026	.0000065	.0000157	.0000367
68			.0000001	.0000003	.0000009	.0000025	.0000062	.0000150
69				.0000001	.0000003	.0000009	.0000023	.0000058
70					.0000001	.0000003	.0000008	.0000022
71						.0000001	.0000003	.0000008
72							.0000001	.0000003
73								.0000001

k	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	.9999999	1.0000000
24	.9999998	.9999999
25	.9999994	.9999998
26	.9999983	.9999994
27	.9999954	.9999982
28	.9999878	.9999949
29	.9999693	.9999868
30	.9999264	.9999671
31	.9998315	.9999219
32	.9996317	.9998227
33	.9992397	.9996151
34	.9984578	.9991997
35	.9970383	.9984057
36	.9945456	.9969537
37	.9903543	.9944187
38	.9836065	.9901549
39	.9731993	.9833200
40	.9578160	.9728047
41	.9360156	.9573947
42	.9063854	.9353537
43	.8677498	.9055766
44	.8194070	.8667972
45	.7613483	.8183229
46	.6944098	.7601538
47	.6203096	.6931328
48	.5415415	.6189819
49	.4611383	.5401966
50	.3822998	.4598034
51	.3080736	.3810181
52	.2409533	.3068672
53	.1826659	.2398462
54	.1340607	.1816771
55	.0951448	.1332028
56	.0652330	.0944234
57	.0431657	.0644463
58	.0275432	.0427053
59	.0169328	.0271953

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 90

c	.40	.50
60	.0100214	.0166800
61	.0057052	.0098451
62	.0031218	.0055873
63	.0016406	.0030463
64	.0008274	.0015943
65	.0004001	.0008003
66	.0001854	.0003849
67	.0000822	.0001773
68	.0000349	.0000781
69	.0000141	.0000329
70	.0000055	.0000132
71	.0000020	.0000051
72	.0000007	.0000018
73	.0000002	.0000006
74	.0000001	.0000002
75		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 30$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.26030704	.45467397	.59097680	.69884866	.78537679	.85781460	.90934180	.94197400
2	.03605407	.12912600	.23008748	.32999371	.42619529	.51840001	.60359160	.67750160
3	.00775432	.03178461	.07340077	.13619374	.20775497	.28407949	.35727507	.42798640
4	.00127764	.00671301	.01945356	.03685469	.06350356	.09516268	.13380374	.17611489
5	.00032874	.00096631	.00317098	.00831604	.01550178	.02502869	.03842227	.05351064
6	.00005067	.00017983	.00070606	.00253118	.00760000	.00209676	.00944038	.02107868
7	.00000667	.00003439	.00013853	.00058707	.00228642	.00837063	.00449040	.00867678
8	.00000076	.00000785	.00003312	.00012304	.00052708	.00214215	.00084088	.00312466
9	.00000008	.00000154	.00000653	.00002405	.00011405	.00050996	.00020728	.00097303
10	.00000001	.00000025	.00000121	.00000539	.00002467	.00011167	.00004953	.00026865
11		.00000001	.00000021	.00000110	.00000506	.00002338	.00001050	.00006766
12		.00000000	.00000004	.00000020	.00000099	.00000469	.00000211	.00001562
13		.00000000	.00000001	.00000003	.00000018	.00000088	.00000040	.00000338
14			.00000000	.00000000	.00000003	.00000015	.00000007	.00000067
15			.00000000	.00000000	.00000000	.00000002	.00000001	.00000012
16				.00000000	.00000000	.00000000	.00000000	.00000002
17				.00000000	.00000000	.00000000	.00000000	.00000000
18				.00000000	.00000000	.00000000	.00000000	.00000000
19				.00000000	.00000000	.00000000	.00000000	.00000000
20				.00000000	.00000000	.00000000	.00000000	.00000000
21						.00000000	.00000000	.00000000
22						.00000000	.00000000	.00000000
23							.00000000	.00000000
24							.00000000	.00000000
25								.00000000

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.97120110	.98279705	.99029903	.99490968	.99759990	.99899997	.99959999	1.00000000
2	.82490490	.89756458	.93937098	.96996537	.98498837	.99299944	.99799901	.99949994
3	.59446675	.70787784	.80991473	.89966660	.95907783	.98599581	.99599820	.99899930
4	.36814959	.47415885	.58962559	.69883973	.79233330	.87977306	.93998410	.97299592
5	.19497568	.26745956	.36876793	.47948451	.58980488	.69801088	.78995181	.86998018
6	.08901151	.13884884	.20675388	.29834873	.41919203	.55661057	.69885584	.80992893
7	.03777038	.06766317	.11208401	.17605047	.26790860	.38935537	.52947756	.66975884
8	.01363766	.02847633	.05445022	.09180674	.15360770	.24457776	.37666100	.52938043
9	.00461706	.01073886	.02334019	.04535786	.08098240	.14469152	.25003866	.39037444
10	.00140645	.00385233	.00957350	.02036744	.04256744	.08013831	.16044701	.27655856
11	.00037350	.00126560	.00363075	.00830561	.02047145	.04340738	.09835683	.18342033
12	.00008684	.00035103	.00126801	.00311534	.00971531	.02160061	.05364560	.11061601
13	.00001764	.00008196	.00038196	.00099506	.00393100	.00919148	.02676824	.06189272
14	.00000319	.00001693	.00009943	.00027438	.00140568	.00353392	.01227031	.03132934
15	.00000052	.00000315	.00002275	.00006964	.00046164	.00130796	.00516128	.01489440
16	.00000008	.00000054	.00000494	.00001579	.00014812	.00044637	.00199467	.00647060
17	.00000001	.00000008	.00000099	.00000336	.00004239	.00014067	.00070812	.00260680
18		.00000001	.00000018	.00000066	.00001133	.00004006	.00023415	.00096097
19			.00000003	.00000012	.00000289	.00001103	.00007320	.00033659
20			.00000000	.00000002	.00000070	.00000289	.00002159	.00011402
21				.00000000	.00000016	.00000073	.00000606	.00003715
22				.00000000	.00000003	.00000017	.00000163	.00001139
23				.00000000	.00000000	.00000004	.00000042	.00000329
24				.00000000	.00000000	.00000000	.00000010	.00000089
25				.00000000	.00000000	.00000000	.00000002	.00000022
26							.00000000	.00000005
27							.00000000	.00000001
28							.00000000	.00000000

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999978	.99999992	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
4	.99998847	.99999944	.99999986	.99999993	.99999998	.99999999	1.00000000	1.00000000
5	.99992201	.99996687	.99998881	.99999955	.99999984	.99999994	.99999998	.99999999
6	.99966889	.99988317	.99994438	.99997770	.99999014	.99999968	.99999988	.99999996
7	.99886888	.99949331	.99978812	.99990081	.99996684	.99998851	.99999642	.99999878
8	.99666694	.99842209	.99927746	.99966767	.99986601	.99994412	.99997759	.99999904
9	.99155028	.99571238	.99779079	.99901116	.99954473	.99979888	.99991131	.99996635
10	.98080030	.98970005	.99466665	.99713302	.99873064	.99939297	.99974834	.99988778
11	.96107794	.97778835	.98788314	.99435470	.99669488	.99836610	.99929136	.99963399
12	.93833939	.95672894	.97403622	.98588947	.99236002	.99600991	.99790818	.99901110
13	.87793000	.92277330	.95044950	.97118654	.98390142	.99114436	.99532817	.99756883
14	.81800064	.87888896	.91742655	.94803934	.96893004	.98195992	.99088856	.99445195
15	.78773398	.80562533	.86669941	.91234870	.94443004	.96604692	.97998843	.98866051
16	.68890709	.73195550	.79972566	.86128814	.90752554	.94061227	.96308348	.97802216
17	.58534088	.68555301	.71700889	.79485577	.85600819	.90395515	.93684430	.96047553
18	.41777347	.58221881	.63227780	.71134494	.78911786	.85108892	.89861466	.93343233
19	.31913254	.41884460	.53210499	.61927888	.70823313	.78445514	.84645591	.89455041
20	.23304844	.38811370	.41982218	.51997866	.61650285	.70435241	.78004388	.84211100
21	.16851594	.23782217	.32484033	.42067844	.51896594	.61372240	.70069054	.77593880
22	.10816499	.16710000	.24103033	.33272889	.42142974	.51800514	.61152228	.69737057
23	.06870514	.11253964	.17133091	.25445118	.33195048	.42208614	.51709084	.60927849
24	.04164414	.07242094	.11659144	.17523114	.24769866	.33151394	.42365824	.51621634
25	.02409854	.04454274	.07593314	.12038304	.17888363	.24506184	.33333614	.42315364
26	.01330774	.02861838	.04739174	.07924834	.12392084	.17031674	.23329434	.33494894
27	.00708084	.01471384	.02822034	.04997884	.08337134	.11721864	.16524474	.25574794

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 99$$

r	.17	.18	.19	.20	.21	.22	.23	.24
28	.0035393	.00790651	.01610611	.0301948	.05251891	.0853158	.1308915	.1868018
29	.0017056	.00406401	.00879921	.0174766	.03811019	.0549938	.0880011	.1331529
30	.0007861	.00199891	.00460291	.0096921	.02081831	.0339373	.0572184	.0906776
31	.0003467	.00094181	.00230611	.0051511	.01057911	.0201257	.0356979	.0593799
32	.0001464	.00042441	.00110701	.0026843	.00570421	.0114549	.0215939	.0373818
33	.0000598	.00018341	.00050931	.0013820	.00295051	.0062579	.0128146	.0228619
34	.0000239	.00007591	.00022461	.0006006	.00146441	.0033819	.0075084	.0135541
35	.0000085	.00003011	.00009501	.0002700	.00069751	.0016595	.0043158	.0078588
36	.0000030	.00001181	.00003861	.0001164	.00031891	.0007990	.0024447	.0044995
37	.0000010	.00000421	.00001501	.0000482	.00014001	.0003711	.0013949	.0024393
38	.0000003	.00000151	.00000561	.0000198	.00005901	.0001655	.0007859	.0013181
39	.0000001	.00000051	.00000201	.0000079	.00002391	.0000709	.0004329	.0007039
40		.00000021	.00000071	.0000027	.00000931	.0000292	.0002339	.0003815
41			.00000021	.0000009	.00000351	.0000116	.0000351	.0000977
42			.00000011	.0000003	.00000121	.0000044	.0000141	.0000414
43				.0000001	.00000041	.0000016	.0000055	.0000169
44					.00000011	.0000006	.0000020	.0000066
45						.0000002	.0000007	.0000025
46						.0000001	.0000002	.0000009
47							.0000001	.0000003
48								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999998	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999963	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
9	.9999851	.9999941	.9999977	.9999991	.9999997	.9999999	1.0000000	1.0000000
10	.9999475	.9999781	.9999911	.9999965	.9999987	.9999995	.9999998	.9999999
11	.9998347	.9999275	.9999691	.9999872	.9999949	.9999980	.9999992	.9999997
12	.9995304	.9997834	.9999034	.9999581	.9999833	.9999928	.9999971	.9999989
13	.9987866	.9994134	.9997250	.9998750	.9999548	.9999764	.9999908	.9999960
14	.9971274	.9985484	.9992835	.9996587	.9998483	.9999393	.9999693	.9999870
15	.9937299	.9966626	.9982805	.9991419	.9995851	.9998055	.9999116	.9999610
16	.9873184	.9929199	.9961708	.9980032	.9989897	.9995048	.9997647	.9999017
17	.9760817	.9860161	.9920959	.9956783	.9977130	.9988381	.9994184	.9997203
18	.9578044	.9741733	.9847346	.9911640	.9954270	.9977123	.9988556	.9994226
19	.9300500	.9552176	.9733035	.9834437	.9908596	.9954481	.9977032	.9988488
20	.8906095	.9268245	.9537185	.9704783	.9821804	.9905977	.9941252	.9967898
21	.8380231	.8869207	.9237436	.9503100	.9687089	.9809398	.9867727	.9936017
22	.7780798	.8341779	.8834282	.9208046	.9479939	.9669813	.9747864	.9879569
23	.6941468	.7664761	.8305613	.8801228	.9180044	.9457713	.9563166	.9785442
24	.6071786	.6911935	.7650995	.8271579	.8769960	.9153398	.9436426	.9637116
25	.5153789	.6052079	.6884285	.7619385	.8239547	.8740398	.9188075	.9416067
26	.4835793	.5145745	.6033552	.6858363	.7589604	.8209399	.8712468	.9104042
27	.3364878	.4239410	.5137996	.6016108	.6834036	.7561497	.8101099	.8666101
28	.2579960	.3378438	.4248441	.5130514	.5999641	.6811185	.7535486	.8154340
29	.1907195	.2600571	.3390699	.4244986	.5183273	.5984090	.6789703	.7510865
30	.1358149	.1931446	.2619424	.3401752	.4396906	.5116251	.5969380	.6769498
31	.0931114	.1382884	.1953803	.2636643	.3711683	.4248412	.5109427	.5955449
32	.0614281	.0953887	.1405835	.1974383	.3052355	.3420566	.4249474	.5102782
33	.0389857	.0633588	.0975155	.1427093	.2493290	.2666638	.3428468	.4250115
34	.0237975	.0405103	.0651743	.0994975	.1946741	.2010617	.2679575	.3435446
35	.0139698	.0249268	.0419542	.0668766	.1013396	.1464854	.2086449	.2691850
36	.0078060	.0147585	.0260047	.0433172	.0684682	.1030471	.1481501	.2040860
37	.0042006	.0084070	.0155173	.0270892	.0465998	.0699513	.1046244	.1496743
38	.0022346	.0046073	.0089127	.0164439	.0279989	.0458003	.0713209	.1060767
39	.0011217	.0024291	.0049870	.0094006	.0169362	.0289187	.0469209	.0736067
40	.0005415	.0012321	.0026813	.0052381	.0098687	.0175985	.0297497	.0479614
41	.0002514	.0006012	.0013482	.0028099	.0055386	.0103188	.0180118	.0305690
42	.0001183	.0002882	.0006613	.0014511	.0029935	.0058871	.0107385	.0181710
43	.0000542	.0001375	.0003136	.0007213	.0015579	.0031709	.0061028	.0103170
44	.0000199	.0000594	.0001431	.0003451	.0007807	.0016619	.0033410	.0056324
45	.0000079	.0000232	.0000620	.0001590	.0003766	.0008388	.0017688	.0030088
46	.0000030	.0000093	.0000268	.0000705	.0001749	.0004077	.0008958	.0015380
47	.0000011	.0000036	.0000108	.0000301	.0000782	.0001908	.0004340	.0007894
48	.0000004	.0000013	.0000042	.0000123	.0000336	.0000859	.0002043	.0003978
49	.0000001	.0000005	.0000016	.0000049	.0000139	.0000373	.0000936	.0001814
50		.0000002	.0000006	.0000019	.0000056	.0000158	.0000409	.0001010
51		.0000001	.0000002	.0000007	.0000021	.0000068	.0000178	.0000444
52			.0000001	.0000002	.0000008	.0000028	.0000069	.0000180
53				.0000001	.0000003	.0000009	.0000027	.0000074
54					.0000001	.0000003	.0000010	.0000030
55						.0000001	.0000004	.0000011
56							.0000001	.0000004
57								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$B_{n,p}(x) = \sum_{k=0}^{n} \binom{n}{k} x^k (1-x)^{n-k}$$

x	.33	.34	.35	.36	.37	.38	.39	.40
18	.99999996	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	.99999984	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
20	.99999947	.99999979	.99999992	.99999997	.99999999	1.00000000	1.00000000	1.00000000
21	.99999833	.99999931	.99999978	.99999989	.99999996	.99999999	1.00000000	1.00000000
22	.99999514	.99997791	.99999218	.99999964	.99999986	.99999998	.99999998	.99999999
23	.99998696	.99997411	.99997745	.99999891	.99999955	.99999982	.99999993	.99999997
24	.99996785	.99996457	.99998896	.99998600	.99999866	.99999948	.99999978	.99999991
25	.99988308	.99996818	.99997800	.99999170	.99999689	.99999840	.99999933	.99999973
26	.99953013	.99991899	.99995685	.99997920	.99999036	.99999566	.99999821	.99999920
27	.99864714	.99981165	.99990868	.99995132	.99998095	.99999498	.99999808	.99999780
28	.99730808	.99961586	.99979295	.99989816	.99996463	.99998747	.99999428	.99999488
29	.99471899	.99923655	.99958347	.99977417	.99991581	.99997045	.99998695	.99999595
30	.98973048	.99837451	.99890584	.99953198	.99975545	.99990084	.99996400	.99998738
31	.98011698	.99682871	.99757194	.99915621	.99938099	.99973691	.99988021	.99992816
32	.96396800	.97606905	.98532178	.98486035	.99410789	.99949066	.99971069	.99984970
33	.94018868	.95376886	.96987770	.97419128	.98417738	.99806109	.99946116	.99970090
34	.86618531	.90597119	.93606698	.95793...	.97380298	.98342805	.99901400	.99943866
35	.81898844	.84370601	.90393367	.92440...	.95665505	.97227716	.99828414	.99897201
36	.74877539	.78105463	.86157855	.90201181	.93388411	.95554390	.99713887	.99838824
37	.67304487	.74660833	.80083525	.85958043	.90082134	.93136537	.95489661	.97054770
38	.62488848	.67338394	.74456641	.80626765	.85755119	.89085201	.90047855	.95322823
39	.58963300	.59897712	.67157754	.74865893	.80433301	.85557440	.89699358	.92866787
40	.48850358	.50099966	.59171813	.66899008	.74028608	.80225144	.85404469	.89545588
41	.34411551	.48500220	.50083766	.59065088	.66685001	.73991841	.80088104	.85294670
42	.27017285	.34468827	.42497820	.50177608	.58995760	.66709006	.73764178	.79993398
43	.20853917	.27110060	.34513316	.42448869	.50717700	.58855538	.66578281	.73615556
44	.15106437	.20456682	.27193307	.34550050	.42847680	.50618851	.58758484	.66454466
45	.10740050	.15013835	.20766806	.27265178	.34540061	.42846163	.50600076	.58635561
46	.07377178	.10461588	.15345881	.20855540	.27397717	.34603754	.42443987	.50543570
47	.04889884	.07484417	.10971118	.15447198	.20937784	.27379577	.34623016	.42481179
48	.03131028	.04980044	.07381140	.11066950	.15533684	.21002797	.27482865	.34633003
49	.01931309	.03199329	.05060061	.07666078	.11155693	.15611511	.21067793	.27456667
50	.01159056	.01978299	.03366169	.05133542	.07747709	.11233567	.15688830	.21117748
51	.00660668	.01180552	.02202878	.03318419	.05140835	.07815088	.11299995	.15736866
52	.00365531	.00683241	.01381788	.02070088	.03366479	.05285560	.07875548	.11385897
53	.00194867	.00377977	.00784536	.01246615	.02110744	.03413850	.05305331	.07990604
54	.00100009	.00200337	.00439091	.00728543	.01274033	.02140933	.03453831	.05347351
55	.00049528	.00104953	.00241124	.00404491	.00740567	.01299498	.02160888	.03485885
56	.00023833	.00052818	.00130942	.00221842	.00415568	.00755571	.01314485	.02193504
57	.00011083	.00026496	.00069459	.00119352	.00232487	.00428519	.00766880	.01331158
58	.00004978	.00013180	.00036633	.00063083	.00127751	.00243339	.00443139	.00779960
59	.00002003	.00006810	.00018213	.00032730	.00068844	.00137544	.00253444	.00446424
60	.00000883	.00003418	.00009540	.00016871	.00036444	.00076060	.00143321	.00259350
61	.00000333	.00001731	.00004931	.00008568	.00019331	.00042935	.00080400	.00145499
62	.00000118	.00000835	.00002495	.00004344	.00009982	.00023868	.00044812	.00081578
63	.00000064	.00000413	.00001238	.00002201	.00005255	.00013136	.00025013	.00046311
64	.00000022	.00000205	.00000614	.00001116	.00002764	.00007264	.00013971	.00026044
65	.00000001	.00000098	.00000305	.00000565	.00001454	.00004017	.00007810	.00014645
66		.00000047	.00000151	.00000286	.00000764	.00002220	.00004364	.00008236
67			.00000075	.00000144	.00000401	.00001227	.00002438	.00004631
68			.00000037	.00000072	.00000210	.00000677	.00001361	.00002603
69			.00000018	.00000036	.00000110	.00000373	.00000758	.00001462
70			.00000009	.00000018	.00000057	.00000205	.00000421	.00000820
71				.00000009	.00000029	.00000112	.00000233	.00000459
72				.00000004	.00000014	.00000061	.00000128	.00000256
73				.00000002	.00000007	.00000033	.00000070	.00000142
74				.00000001	.00000003	.00000017	.00000038	.00000078
75					.00000001	.00000008	.00000020	.00000042
76						.00000004	.00000010	.00000022
77						.00000002	.00000005	.00000011
78						.00000001	.00000002	.00000006
79							.00000001	.00000003
80								.00000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	.99999989	.99999996	.99999999	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
20	.99999967	.99999987	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000
21	.99999904	.99999962	.99999985	.99999994	.99999998	.99999999	1.00000000	1.00000000
22	.99997147	.99999858	.99999958	.99999982	.99999993	.99999997	.99999999	1.00000000
23	.99999384	.99999713	.99999877	.99999949	.99999979	.99999992	.99999997	.99999999
24	.99998440	.99999278	.99999670	.99999861	.99999948	.99999977	.99999991	.99999997
25	.99996489	.99998884	.99999307	.99999648	.99999845	.99999935	.99999974	.99999990
26	.99998837	.99996123	.99998188	.99999187	.99999607	.99999829	.99999938	.99999971
27	.99983948	.99991464	.99995881	.99997875	.99999058	.99999572	.99999813	.99999913
28	.99960367	.99983947	.99991118	.99995327	.99997885	.99998979	.99999557	.99999788
29	.99910588	.99967708	.99981986	.99990581	.99995843	.99997681	.99998909	.99999509
30	.99853166	.99937918	.99965188	.99981067	.99990072	.99994975	.99997545	.99998848
31	.98163170	.98889878	.99335445	.99636486	.99801995	.99868591	.99947168	.99974116
32	.96477888	.98108864	.98833410	.99331233	.99628230	.99793866	.99891143	.99944838
33	.95388176	.96490813	.98057321	.98821194	.99330960	.99609914	.99786635	.99887530
34	.93744494	.95138887	.96833960	.98009940	.98779033	.99289967	.99597917	.99779850
35	.89460853	.93843480	.95041750	.96770035	.97986860	.98761388	.99097151	.99586834
36	.88100011	.89380131	.92853136	.94968881	.96713845	.97988562	.98073517	.99235320
37	.79777747	.86494463	.89116460	.93436656	.94888958	.96659996	.97068963	.98711179

$$P(e,n;p) = \sum_{r=e}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 99

N	.41	.42	.43	.44	.45	.46	.47	.48
38	.7347954	.7944156	.8484008	.8905745	.9235035	.9468416	.9661891	.9785770
39	.6613889	.7335328	.7951714	.8478603	.8896058	.9227866	.9476347	.9657138
40	.5857758	.6683037	.7323849	.7940875	.8462748	.8887309	.9280547	.9471420
41	.5048740	.5949102	.6618944	.7310887	.7989853	.8458919	.9079587	.9314873
42	.4219783	.5043173	.5841416	.6603545	.7303019	.7980488	.8844600	.9078497
43	.3463353	.4136964	.5027661	.5833848	.6394779	.7294083	.7911968	.8437881
44	.2741197	.3463081	.4233906	.5033195	.5486645	.6566687	.7085880	.7904500
45	.2115660	.2749847	.3462198	.4230549	.4580770	.5819811	.6579253	.7278575
46	.1578443	.2118594	.2750663	.3460714	.3682895	.5021377	.5813389	.6578404
47	.1140191	.1581988	.2120539	.2750649	.3458035	.4288943	.5016010	.5807188
48	.0796765	.1143794	.1584498	.2121518	.2749016	.3455967	.4218491	.5010865
49	.0531885	.0800044	.1146418	.1586008	.2121844	.2748178	.3459713	.4214137
50	.0351889	.0549961	.0809448	.1146076	.1586588	.2180688	.2748784	.3448678
51	.0221285	.0353349	.0549962	.0809987	.1146777	.1586050	.2118778	.2748474
52	.0134501	.0220080	.0354883	.0544833	.0804667	.1146588	.1584899	.2118965
53	.0078868	.0135570	.0220917	.0355841	.0544760	.0804494	.1147356	.1588178
54	.0044578	.0079841	.0136308	.0224575	.0356217	.0544605	.0803473	.1145805
55	.0024869	.0044979	.0079998	.0136717	.0224794	.0356016	.0543715	.0801606
56	.0013706	.0024502	.0045246	.0080337	.0136817	.0224876	.0355848	.0548105
57	.0006484	.0013858	.0024647	.0045370	.0080360	.0136601	.0223998	.0353896
58	.0003180	.0006487	.0013234	.0024703	.0045358	.0080066	.0136071	.0223935
59	.0001457	.0003150	.0006580	.0012944	.0024669	.0045178	.0079697	.0135030
60	.0000654	.0001470	.0003163	.0006583	.0012910	.0024548	.0044891	.0079034
61	.0000283	.0000659	.0001478	.0003160	.0006496	.0012884	.0024339	.0044458
62	.0000117	.0000284	.0000660	.0001471	.0003141	.0006439	.0012686	.0024043
63	.0000046	.0000117	.0000284	.0000667	.0001458	.0003105	.0006358	.0012497
64	.0000018	.0000047	.0000117	.0000288	.0000650	.0001437	.0003054	.0006137
65	.0000006	.0000018	.0000046	.0000116	.0000278	.0000638	.0001408	.0002987
66	.0000002	.0000006	.0000018	.0000046	.0000114	.0000271	.0000633	.0001371
67	.0000001	.0000002	.0000006	.0000017	.0000045	.0000111	.0000264	.0000603
68		.0000001	.0000002	.0000006	.0000017	.0000043	.0000107	.0000254
69			.0000001	.0000002	.0000006	.0000016	.0000041	.0000102
70				.0000001	.0000002	.0000006	.0000015	.0000039
71					.0000001	.0000002	.0000005	.0000014
72						.0000001	.0000002	.0000005
73							.0000001	.0000002
74								.0000001

N	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	.9999999	1.0000000
25	.9999996	.9999999
26	.9999989	.9999996
27	.9999968	.9999988
28	.9999915	.9999965
29	.9999781	.9999909
30	.9999474	.9999770
31	.9998780	.9999445
32	.9997396	.9998733
33	.9994267	.9997189
34	.9988357	.9994074
35	.9977336	.9988027
36	.9957670	.9976797
37	.9924080	.9956832
38	.9869189	.9923838
39	.9782988	.9867374
40	.9653538	.9780484
41	.9466978	.9650497
42	.9209048	.9463048
43	.8866813	.9204652
44	.8430950	.8861869
45	.7897970	.8425601
46	.7270096	.7892383
47	.6566187	.7266433
48	.5801379	.6560573
49	.5008338	.5788892
50	.4209278	.5000000
51	.3444445	.4211108
52	.2733403	.3439427
53	.2111267	.2733567
54	.1578775	.2107617
55	.1143136	.1574399
56	.0798898	.1131131
57	.0539786	.0791348

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 99

c	.49	.80
58	.0351982	.0536758
59	.0231319	.0349503
60	.0134080	.0219376
61	.0078801	.0132626
62	.0045877	.0077162
63	.0025664	.0043168
64	.0013259	.0023203
65	.0006695	.0011973
66	.0002906	.0005926
67	.0001327	.0002811
68	.0000561	.0001277
69	.0000243	.0000555
70	.0000097	.0000230
71	.0000037	.0000091
72	.0000013	.0000035
73	.0000005	.0000012
74	.0000002	.0000004
75		.0000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.63396770	.86738040	.95244750	.98312970	.99407950	.99794510	.99929480	.99976080
2	.26482800	.59672830	.80533790	.91283670	.96291680	.98482890	.99390710	.99766070
3	.07937320	.32331440	.58022490	.76768740	.88173700	.94339720	.97822110	.98872720
4	.01637400	.14103840	.35275080	.57052440	.74216130	.85697690	.92559750	.96329410
5	.00343230	.05083040	.18214520	.37113590	.56401870	.72328480	.83683500	.90966340
6	.00053450	.01546360	.08003710	.21112510	.38400090	.55930730	.70857510	.82012360
7	.00007110	.00406210	.03122750	.10639230	.23398600	.39364600	.55571980	.69604400
8	.00000820	.00093190	.01062580	.04751210	.12795050	.25165060	.40123080	.55289020
9	.00000080	.00018930	.00321600	.01899190	.06308960	.14628690	.26603410	.40737180
10	.00000010	.00003440	.00087410	.00684450	.02818830	.07753910	.16201960	.27602200
11		.00000560	.00021490	.00223850	.01147840	.03760680	.09077520	.17566700
12		.00000080	.00004810	.00066830	.00427420	.01675240	.04690040	.10288380
13		.00000010	.00000990	.00018310	.00146430	.00608790	.02240750	.05586050
14			.00000190	.00004630	.00046330	.00206140	.00979810	.02823570
15			.00000030	.00001080	.00013590	.00069210	.00409100	.01329780
16			.00000010	.00000230	.00003710	.00030890	.00157800	.00586960
17				.00000050	.00000940	.00009290	.00056480	.00240910
18				.00000010	.00000220	.00002670	.00019080	.00093090
19					.00000050	.00000720	.00006010	.00033810
20					.00000010	.00000180	.00001790	.00011570
21						.00000040	.00000500	.00003730
22						.00000010	.00000130	.00001140
23							.00000030	.00000330
24							.00000010	.00000090
25								.00000020
26								.00000010

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.99991980	.99997340	.99999130	.99999720	.99999910	.99999970	.99999990	1.00000000
2	.99912670	.99967830	.99986390	.99995890	.99998570	.99999510	.99999840	.99999950
3	.99534390	.99805510	.99922680	.99970050	.99990680	.99996820	.99998490	.99999470
4	.98269940	.99216350	.99657400	.99854950	.99940380	.99976160	.99990710	.99996470
5	.95261330	.97628890	.98863270	.99474540	.99765380	.99898580	.99957450	.99982850
6	.89548880	.94242310	.96975430	.98477830	.99263310	.99656070	.99844730	.99932080
7	.80608030	.88284440	.93203000	.96326260	.98075450	.99031020	.99529800	.99779580
8	.68720500	.79394910	.87154630	.92386390	.95691920	.97664620	.98783480	.99389510
9	.55060010	.67912610	.78349410	.86140790	.91551580	.95078790	.97385430	.98525800
10	.41249410	.54870980	.67224720	.77434810	.85227380	.90775760	.94490540	.96844060
11	.28819860	.41684450	.54712560	.66631480	.76627920	.84401260	.90055260	.93929040
12	.18761990	.29696690	.42059810	.54578170	.66114480	.75910920	.83651380	.89386170
13	.11304370	.19811780	.30461460	.42388790	.54463090	.65659980	.75269040	.82966450
14	.06445 7	.12387680	.20757740	.31113530	.42677770	.54536380	.65257500	.74699360
15	.03409540	.07257300	.13304720	.21599080	.31734260	.42953230	.54277500	.64898870
16	.01688240	.03989050	.08023410	.14144890	.23358900	.32270510	.43160460	.54208410
17	.00780360	.02059880	.04555690	.08744260	.14916540	.23044530	.32753710	.43378610
18	.00341880	.01000730	.02437930	.05105340	.09421560	.15862690	.23678310	.33191500
19	.00140330	.00458080	.01231000	.02817220	.05635440	.10057490	.16888540	.24844090
20	.00054300	.00197060	.00587200	.01470630	.03193810	.06144550	.11065440	.16888830
21	.00019840	.00080760	.00264940	.00726940	.01716200	.03564740	.06631980	.11214770
22	.00006850	.00031190	.00113210	.00340610	.00875090	.01964850	.03987810	.07097540
23	.00002240	.00011420	.00045870	.00151440	.00428780	.01029620	.02314210	.04881430
24	.00000700	.00003960	.00017640	.00063950	.00195070	.00513300	.01188670	.02466320
25	.00000200	.00001310	.00006450	.00025680	.00085430	.00243630	.00600804	.01350650
26	.00000060	.00000410	.00002240	.00009810	.00035630	.00111017	.00296550	.00706930
27	.00000020	.00000120	.00000740	.00003570	.00014160	.00047510	.00137980	.00353240
28		.00000030	.00000230	.00001240	.00005370	.00019550	.00061290	.00164800
29		.00000010	.00000070	.00000410	.00001940	.00007680	.00026010	.00076910
30			.00000020	.00000130	.00000670	.00002880	.00010850	.00033550
31			.00000010	.00000040	.00000220	.00001030	.00004090	.00014000
32				.00000010	.00000070	.00000360	.00001580	.00005590
33					.00000020	.00000120	.00000540	.00002140
34					.00000010	.00000040	.00000180	.00000780
35						.00000010	.00000060	.00000280
36							.00000020	.00000090
37							.00000010	.00000030
38								.00000010

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999980	.99999990	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999810	.99999940	.99999980	.99999990	1.00000000	1.00000000	1.00000000	1.00000000
4	.99988690	.99999530	.99999830	.99999940	.99999980	.99999990	1.00000000	1.00000000
5	.99993110	.99998330	.99999890	.99999960	.99999990	.99999998	.99999999	.99999999
6	.99971160	.99988100	.99995320	.99998130	.99999290	.99999740	.99999900	.99999970
7	.99889990	.99956010	.99981210	.99992200	.99997850	.99999760	.99999950	.99999980
8	.99704220	.99861400	.99937090	.99978300	.99993160	.99999500	.99999810	.99999930
9	.99238110	.99619980	.99816760	.99914460	.99961300	.99988300	.99998760	.99999700
10	.98252800	.99076860	.99528230	.99706640	.99888300	.99964800	.99997670	.99998980
11	.96443240	.97996130	.98912360	.99430360	.99711720	.99855080	.99933080	.99969250
12	.93395040	.96052630	.97730380	.98724510	.99327680	.99652690	.99806460	.99921600
13	.88764600	.92888520	.95674070	.97467120	.98570540	.99221410	.99589020	.99791460
14	.82344630	.88186680	.92408970	.95308780	.97208120	.98397980	.99111870	.99488310
15	.74173870	.81773290	.87649530	.91985630	.94987540	.97095470	.98086150	.99059460
16	.64577650	.73701560	.81248760	.87149450	.91527550	.94620810	.96707950	.98053670
17	.54136640	.64888660	.73272500	.80766240	.86403770	.91123690	.94298780	.96468640
18	.43569030	.54078960	.64037690	.72881100	.80321570	.86384980	.90743010	.93999150
19	.33390070	.43744760	.54038630	.63791290	.73583180	.79211170	.85845450	.90308440
20	.24769390	.33954460	.43905510	.53983860	.65857660	.70819580	.79831930	.85460440
21	.17450650	.25250650	.34208840	.44085380	.53944860	.63381210	.71894170	.79181160
22	.11740880	.17972190	.25695460	.34859660	.44191210	.53910730	.63203090	.71611780
23	.07541410	.12383490	.18457150	.26610670	.34880990	.44511880	.53880960	.63040840
24	.04624440	.07963990	.12699140	.19908720	.26488770	.35143980	.44437760	.53888130
25	.02707620	.04956070	.08364580	.14313530	.19329740	.26041180	.35308080	.44548860

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
26	.0151411	.0294884	.0527579	.0874754	.1354531	.1972269	.2717039	.3561485
27	.0080896	.0167784	.0318496	.0558327	.0910983	.1393074	.2008977	.2747657
28	.0041311	.0091318	.0184078	.0341516	.0587836	.0945340	.1429318	.2043898
29	.0020174	.0047556	.0101875	.0200208	.0363882	.0616099	.0977895	.1463383
30	.0009425	.0023706	.0054002	.0112490	.0216079	.0385543	.0643128	.1008717
31	.0004214	.0011316	.0027425	.0060593	.0123043	.0231643	.0406468	.0668914
32	.0001804	.0005174	.0013349	.0031297	.0067280	.0133625	.0246838	.0426609
33	.0000740	.0002267	.0006229	.0015504	.0035288	.0074013	.0144029	.0261619
34	.0000291	.0000953	.0002787	.0007369	.0017765	.0039366	.0080749	.0154857
35	.0000110	.0000384	.0001197	.0003361	.0008585	.0020110	.0043501	.0087441
36	.0000040	.0000148	.0000493	.0001471	.0003984	.0009868	.0022521	.0047668
37	.0000014	.0000055	.0000195	.0000619	.0001776	.0004652	.0011805	.0024977
38	.0000005	.0000020	.0000074	.0000250	.0000760	.0002107	.0005359	.0012587
39	.0000001	.0000007	.0000027	.0000097	.0000313	.0000918	.0002464	.0006099
40		.0000002	.0000009	.0000036	.0000124	.0000384	.0001089	.0002843
41		.0000001	.0000003	.0000013	.0000047	.0000154	.0000463	.0001274
42			.0000001	.0000004	.0000017	.0000060	.0000189	.0000549
43				.0000001	.0000006	.0000022	.0000074	.0000228
44					.0000002	.0000008	.0000028	.0000091
45					.0000001	.0000003	.0000010	.0000035
46						.0000001	.0000004	.0000013
47							.0000001	.0000005
48								.0000002
49								.0000001

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999970	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999879	.9999953	.9999982	.9999993	.9999998	.9999999	1.0000000	1.0000000
10	.9999569	.9999823	.9999929	.9999972	.9999990	.9999996	.9999999	1.0000000
11	.9998629	.9999407	.9999751	.9999898	.9999960	.9999984	.9999994	.9999998
12	.9996065	.9998211	.9999211	.9999662	.9999860	.9999943	.9999978	.9999992
13	.9989726	.9995097	.9997732	.9998982	.9999557	.9999813	.9999923	.9999969
14	.9975422	.9987688	.9994027	.9997192	.9998720	.9999435	.9999758	.9999899
15	.9945792	.9971513	.9986513	.9992866	.9996597	.9998427	.9999295	.9999693
16	.9889167	.9938930	.9967458	.9983221	.9991684	.9995950	.9998103	.9999139
17	.9788894	.9878111	.9931901	.9963293	.9980833	.9990311	.9995258	.9997751
18	.9633737	.9772524	.9867146	.9925000	.9959053	.9978371	.9988941	.9994526
19	.9369086	.9601460	.9756571	.9856334	.9916034	.9954774	.9975856	.9987536
20	.9004696	.9342067	.9580065	.9741086	.9845737	.9911128	.9950485	.9973311
21	.8511689	.8972957	.9315668	.9559572	.9726114	.9835371	.9904320	.9946817
22	.7885650	.8478910	.8943133	.9290661	.9539995	.9711687	.9825308	.9897646
23	.7136299	.7855585	.8448353	.8915137	.9267013	.9521343	.9697036	.9815569
24	.6289207	.7112870	.7827741	.8419880	.8888884	.9244692	.9503617	.9684588
25	.5383289	.6275642	.7091296	.7801956	.8393367	.8864298	.9233665	.9486017
26	.4465292	.5381392	.6263250	.7071433	.7778087	.8368699	.8841306	.9203897
27	.3582602	.4475057	.5379796	.6251935	.7053151	.7756008	.8345775	.8819048
28	.2776195	.3602291	.4484241	.5378479	.6241615	.7036338	.7735604	.8324503
29	.2075388	.2802817	.3620669	.4492891	.5377420	.6232218	.7020896	.7716777
30	.1495410	.2105419	.2827668	.3637841	.4501053	.5376603	.6223680	.7006736
31	.1037872	.1525510	.2133521	.2850878	.3653898	.4500764	.5376012	.6215945
32	.0693489	.1065426	.1553787	.2159817	.2872560	.3668920	.4516059	.5375635
33	.0448963	.0716866	.1091439	.1580334	.2184418	.2892814	.3682980	.4528968
34	.0275946	.0464509	.0739064	.1115967	.1605240	.2207422	.2911732	.3696140
35	.0164267	.0289785	.0482236	.0760105	.1139066	.1628583	.2228918	.2939398
36	.0094070	.0174023	.0303110	.0499138	.0780009	.1160786	.1650434	.2248985
37	.0051821	.0100584	.0183489	.0315898	.0515812	.0798800	.1181474	.1670860
38	.0027461	.0055952	.0106959	.0192638	.0329130	.0530456	.0816499	.1200893
39	.0014000	.0029954	.0060032	.0113167	.0201444	.0339779	.0544871	.0833127
40	.0006866	.0015433	.0032439	.0064036	.0119183	.0209886	.0350865	.0558460
41	.0003240	.0007652	.0016875	.0034898	.0067943	.0124984	.0217943	.0361346
42	.0001471	.0003652	.0008451	.0018316	.0037316	.0071736	.0130550	.0888600
43	.0000642	.0001677	.0004075	.0009257	.0019743	.0039678	.0075394	.0135863
44	.0000270	.0000741	.0001891	.0004505	.0010061	.0021146	.0041270	.0078903
45	.0000109	.0000315	.0000845	.0002111	.0004938	.0010857	.0022516	.0044179
46	.0000043	.0000129	.0000363	.0000952	.0002334	.0005370	.0011640	.0023044
47	.0000016	.0000051	.0000150	.0000414	.0001068	.0002558	.0005797	.0012408
48	.0000006	.0000019	.0000060	.0000173	.0000466	.0001174	.0002781	.0006215
49	.0000002	.0000007	.0000023	.0000070	.0000196	.0000519	.0001285	.0003001
50	.0000001	.0000002	.0000008	.0000027	.0000080	.0000221	.0000578	.0001396
51		.0000001	.0000003	.0000010	.0000031	.0000090	.0000245	.0000635
52			.0000001	.0000004	.0000012	.0000036	.0000101	.0000270
53				.0000001	.0000004	.0000014	.0000040	.0000118
54					.0000001	.0000005	.0000015	.0000045
55						.0000002	.0000006	.0000017
56						.0000001	.0000002	.0000006
57							.0000001	.0000002
58								.0000001

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

= = 1CO

n	.33	.34	.35	.36	.37	.38	.39	.40
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	.99999988	.99999996	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
14	.99999959	.99999984	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000
15	.99998871	.99999947	.99999979	.99999992	.99999997	.99999999	1.00000000	1.00000000
16	.99996621	.99998838	.99999933	.99999973	.99999990	.99999996	.99999999	.99999999
17	.99989967	.99995540	.99998802	.99999917	.99999966	.99999987	.99999995	.99999998
18	.99967376	.99984781	.99994452	.99997761	.99999059	.99999959	.99999984	.99999994
19	.99903761	.99946979	.99985583	.99993357	.99997717	.99999880	.99999950	.99999980
20	.99860079	.99929728	.99965655	.99983755	.99992566	.99999670	.99999858	.99999941
21	.99707539	.99846111	.99921649	.99961388	.99981588	.99991509	.99996209	.99998836
22	.99411997	.99682033	.99831366	.99913455	.99957033	.99977355	.99990409	.99995686
23	.98911388	.99378511	.99656799	.99816649	.99905849	.99953262	.99977099	.99990738
24	.98061866	.98848255	.99338011	.99631979	.99809099	.99857066	.99944821	.99974011
25	.96719439	.97971844	.98787309	.99299869	.99609744	.99717809	.99888999	.99943885
26	.94709399	.96599333	.97885849	.98728789	.99269073	.99588423	.99777388	.99881109
27	.91853569	.94559779	.96485639	.97804049	.98672879	.99284329	.99561609	.99760439
28	.87999439	.91680129	.94419239	.96378419	.97726619	.98619759	.99189619	.99539969
29	.83048009	.87812539	.91518339	.94299699	.96277729	.97653679	.98569879	.99159759
30	.76994369	.82865909	.87640199	.91369709	.94165069	.96183619	.97585359	.98528479
31	.69937869	.76835019	.82698059	.87480929	.91228579	.94051239	.96096109	.97582179
32	.62099639	.69819609	.76639009	.82543849	.87334309	.91100079	.93946119	.96015819
33	.53754619	.62026929	.69712159	.76555709	.82402719	.87199909	.91082179	.93849619
34	.45295199	.53754809	.61970939	.69614899	.76434529	.82277169	.87077369	.90874649
35	.37084579	.45357349	.53756839	.61921329	.69587369	.76738499	.82187759	.86966359
36	.29458679	.37199819	.45416369	.53760639	.61877799	.69443119	.76228579	.82053069
37	.22677699	.29612219	.37307579	.45472449	.53765159	.61840089	.69379789	.76139939
38	.16899209	.22851109	.29755109	.37408259	.45525759	.53777339	.61807979	.69319089
39	.12118129	.17076679	.23012929	.29887869	.37502209	.45577459	.53782109	.61701839
40	.08487049	.12347649	.17241509	.23162909	.30010949	.37589759	.45624679	.53798479
41	.05712259	.08632499	.12502289	.17394149	.23301519	.30124769	.37671179	.45670559
42	.03712229	.05831719	.08767819	.12645479	.17534999	.23429189	.30229689	.37746739
43	.02323419	.03804089	.05943029	.08893179	.13777509	.17664409	.23546879	.30328019
44	.01409079	.02396539	.03891389	.06046229	.09008739	.12898629	.17788709	.23653139
45	.00822479	.01456669	.02460269	.03971679	.06141379	.09114649	.13009069	.17899169
46	.00462939	.00854139	.01501289	.02519499	.04045789	.06220519	.09211029	.13109059
47	.00251199	.00483019	.00883889	.01544819	.02574149	.04113509	.06307689	.09198019
48	.00131379	.00263359	.00501929	.00911619	.01581159	.02624149	.04174989	.06378939
49	.00066219	.00138409	.00274829	.00519589	.00937239	.01616219	.02669419	.04230149
50	.00032159	.00070099	.00145069	.00285559	.00535899	.00960639	.01647919	.02709939
51	.00015039	.00034209	.00073789	.00151299	.00295479	.00550799	.00981759	.01676179
52	.00006779	.00016089	.00036169	.00077249	.00157049	.00304829	.00564209	.01000519
53	.00002949	.00007289	.00017079	.00037999	.00080439	.00162299	.00312649	.00576069
54	.00001239	.00003179	.00007769	.00018009	.00039699	.00083349	.00169689	.00321799
55	.00000499	.00001339	.00003399	.00008219	.00018869	.00041229	.00088939	.00171099
56	.00000199	.00000549	.00001439	.00003609	.00008639	.00019639	.00044599	.00088189
57	.00000079	.00000219	.00000589	.00001529	.00003809	.00008909	.00021339	.00043769
58	.00000029	.00000089	.00000229	.00000619	.00001619	.00003939	.00009329	.00020919
59	.00000019	.00000029	.00000089	.00000239	.00000659	.00001669	.00004179	.00009619
60		.00000019	.00000029	.00000089	.00000259	.00000689	.00001749	.00004259
61			.00000019	.00000029	.00000109	.00000279	.00000719	.00001809
62				.00000019	.00000039	.00000109	.00000289	.00000749
63					.00000019	.00000049	.00000119	.00000299
64						.00000019	.00000049	.00000119
65							.00000019	.00000049
66								.00000019

n	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	.99999998	.99999997	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	.99999993	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	.99999976	.99999991	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
21	.99999931	.99999978	.99999992	.99999996	.99999999	.99999999	1.00000000	1.00000000
22	.99999818	.99999941	.99999968	.99999987	.99999995	.99999998	.99999999	1.00000000
23	.99999515	.99999768	.99999910	.99999963	.99999986	.99999995	.99999998	.99999999
24	.99998815	.99999461	.99999763	.99999900	.99999959	.99999984	.99999994	.99999998
25	.99997854	.99998708	.99999407	.99999738	.99999869	.99999954	.99999983	.99999993
26	.99993956	.99997031	.99998590	.99999354	.99999714	.99999878	.99999950	.99999980
27	.99987345	.99993539	.99996813	.99998482	.99999302	.99999690	.99999867	.99999945
28	.99974784	.99986610	.99993139	.99996604	.99998377	.99999252	.99999667	.99999857
29	.99951948	.99973589	.99988911	.99992757	.99996405	.99998278	.99999304	.99999645
30	.99918825	.99950010	.99978375	.99985254	.99992399	.99996218	.99998185	.99999160
31	.99847856	.99909703	.99948207	.99971300	.99984642	.99992067	.99996046	.99998100
32	.99746887	.99843795	.99907039	.99946544	.99970310	.99984081	.99991763	.99995890
33	.99594094	.99740886	.99840073	.99904602	.99945027	.99969412	.99983574	.99991491

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
34	.9376162	.9587329	.9735975	.9836697	.9902400	.9943663	.9968608	.9983125
35	.9077728	.9360205	.9581224	.9731557	.9833673	.9900439	.9942457	.9967906
36	.8666656	.9068989	.9361082	.9575779	.9727637	.9831007	.9898785	.9941414
37	.8195975	.8677772	.9061231	.9354785	.9570993	.9734216	.9838704	.9897868
38	.7606169	.8187746	.8669959	.9054437	.9349305	.9566863	.9781897	.9836766
39	.6926655	.7599453	.8180598	.8663194	.9048594	.9344635	.9563387	.9718881
40	.6175973	.6922211	.7593717	.8174499	.8657460	.9043689	.9340770	.9560565
41	.5380438	.6174336	.6918547	.7588938	.8169431	.8658738	.9039718	.9337704
42	.4571420	.5381781	.6173173	.6915644	.7585094	.8165373	.8649016	.9036653
43	.3781665	.4575572	.5383276	.6172502	.6913487	.7582169	.8163318	.8646880
44	.3041405	.3788112	.4579520	.5384920	.6172305	.6912061	.7580148	.8160838
45	.2375001	.3049405	.3794032	.4583273	.5386714	.6172574	.6911357	.7579019
46	.1798705	.2383720	.3056623	.3799441	.4586039	.5388657	.6173304	.6911366
47	.1319875	.1807359	.2391492	.3063077	.3804352	.4590222	.5390750	.6174492
48	.0937570	.1327833	.1814996	.2398336	.3068785	.3808776	.4593431	.5398995
49	.0644227	.0944419	.1334793	.1821632	.2404266	.3073758	.3812723	.4596469
50	.0427897	.0649775	.0950355	.1340766	.1827382	.2409298	.3078009	.3816199
51	.0274560	.0432146	.0654541	.0955386	.1345762	.1831955	.2413440	.3081548
52	.0170093	.0277642	.0435758	.0658525	.0959516	.1349788	.1838660	.2416700
53	.0101686	.0172815	.0280234	.0438733	.0661739	.0962750	.1352849	.1838403
54	.0058633	.0103071	.0173976	.0282332	.0441070	.0664154	.0965088	.1354949
55	.0032593	.0059495	.0104208	.0175375	.0283934	.0442767	.0665800	.0966534
56	.0017459	.0033103	.0060189	.0105089	.0176406	.0285038	.0443823	.0666666
57	.0009008	.0017745	.0033504	.0060712	.0105711	.0177069	.0285648	.0444837
58	.0004474	.0009160	.0017965	.0033796	.0061060	.0106072	.0177361	.0285744
59	.0002139	.0004551	.0009274	.0018118	.0033976	.0061234	.0106171	.0177880
60	.0000983	.0002175	.0004607	.0009348	.0018202	.0034044	.0061831	.0106008
61	.0000435	.0001000	.0002201	.0004640	.0009382	.0018217	.0033998	.0061058
62	.0000185	.0000442	.0001011	.0002214	.0004651	.0009376	.0018163	.0033840
63	.0000075	.0000187	.0000446	.0001015	.0002215	.0004639	.0009329	.0018039
64	.0000029	.0000076	.0000189	.0000447	.0001013	.0002204	.0004604	.0009842
65	.0000011	.0000030	.0000077	.0000189	.0000445	.0001006	.0002108	.0004547
66	.0000004	.0000011	.0000030	.0000077	.0000187	.0000440	.0000998	.0002147
67	.0000001	.0000004	.0000011	.0000030	.0000076	.0000185	.0000432	.0000978
68		.0000001	.0000004	.0000011	.0000029	.0000074	.0000180	.0000428
69			.0000001	.0000004	.0000011	.0000029	.0000072	.0000175
70				.0000001	.0000004	.0000010	.0000028	.0000070
71					.0000001	.0000004	.0000010	.0000026
72						.0000001	.0000004	.0000010
73							.0000001	.0000003
74								.0000001

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	.9999999	1.0000000
25	.9999997	.9999999
26	.9999992	.9999997
27	.9999978	.9999992
28	.9999941	.9999977
29	.9999848	.9999937
30	.9999685	.9999839
31	.9999180	.9999607
32	.9998083	.9999084
33	.9995751	.9997956
34	.9991253	.9995631
35	.9982736	.9991050
36	.9967306	.9982412
37	.9940539	.9966814
38	.9896055	.9939035
39	.9825197	.9895106
40	.9716969	.9823999
41	.9558393	.9715560
42	.9335431	.9556870
43	.9034505	.9333947
44	.8644523	.9033860
45	.8159130	.8643735
46	.7578774	.8158992
47	.6918082	.7579408
48	.6176135	.6913503
49	.5395393	.6178333
50	.4599342	.5397946
51	.3819213	.4608054
52	.3084373	.3821767

$$P(c,n,p) = \sum_{r=0}^{p} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

x/p	.49	.50
53	.8419083	.3086497
54	.1840185	.2420592
55	.1356088	.1041008
56	.0967085	.1356865
57	.0666751	.0966740
58	.0444006	.0666053
59	.0285344	.0443130
60	.0176887	.0284440
61	.0105582	.0176001
62	.0060696	.0104894
63	.0033568	.0060165
64	.0017847	.0033186
65	.0009115	.0017588
66	.0004468	.0008950
67	.0002101	.0004369
68	.0000947	.0002044
69	.0000408	.0000916
70	.0000168	.0000395
71	.0000066	.0000161
72	.0000025	.0000063
73	.0000009	.0000023
74	.0000003	.0000008
75	.0000001	.0000003
76		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 101$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.63762880	.87000328	.95387741	.98380045	.99437555	.99806844	.99934428	.99977999
2	.26790353	.60214113	.80979900	.91864484	.96447668	.98561599	.99435386	.99784471
3	.08132219	.32878827	.59097955	.77366565	.88057961	.94588737	.97559558	.99044435
4	.01998840	.14466840	.35957550	.57844177	.74914401	.86221615	.92859912	.96532807
5	.00359017	.05263346	.18726234	.37911115	.57292558	.73124999	.84304844	.91398539
6	.00056535	.01619006	.08388764	.21800556	.39300188	.56914233	.71755344	.82728667
7	.00007557	.00429055	.03271588	.11060016	.24148688	.40355856	.56641966	.70670644
8	.00000888	.00099455	.01124195	.04986673	.13326188	.26017053	.41203577	.56440655
9	.00000089	.00020422	.00343835	.02013277	.06633311	.15260866	.27549728	.41901333
10	.00000081	.00003755	.00094435	.00733044	.02993344	.08166395	.16930066	.28857008
11		.00000628	.00023475	.00242288	.01230828	.04000277	.09576235	.18385554
12		.00000095	.00005315	.00073128	.00463418	.01800377	.04997165	.10667108
13		.00000110	.00001105	.00020258	.00160488	.00747228	.02412208	.05963778
14		.00000218	.00000218	.00005178	.00051338	.00287018	.01080178	.03044738
15		.00000048	.00000122	.00001228	.00015228	.00102368	.00449968	.01449238
16			.00000078	.00000278	.00004208	.00033008	.00174838	.00644548
17				.00000068	.00001088	.00010558	.00063538	.00268448
18				.00000018	.00000268	.00003078	.00021648	.00094918
19					.00000068	.00000848	.00006928	.00030858
20					.00000018	.00000218	.00001898	.00009358
21						.00000058	.00000498	.00002598
22						.00000018	.00000118	.00000698
23							.00000028	.00000178
24							.00000008	.00000048
25								.00000018
26								.00000018

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.99992270	.99997618	.99999238	.99999758	.99999928	.99999988	.99999998	1.00000000
2	.99919818	.99970788	.99989578	.99996358	.99998758	.99999588	.99999868	.99999958
3	.99555938	.99821748	.99929918	.99973158	.99989968	.99996338	.99998698	.99999548
4	.98382848	.99275278	.99686588	.99868778	.99946668	.99978928	.99991888	.99996958
5	.95532118	.97787648	.98949748	.99520018	.99788138	.99909448	.99962448	.99984868
6	.90062468	.94580978	.97182988	.98597418	.99328588	.99690038	.99861648	.99940178
7	.81407198	.88880238	.93689168	.96584458	.98228878	.99116538	.99577048	.99800398
8	.69788948	.80283878	.87628758	.92859188	.96001788	.97855928	.98895438	.99452928
9	.56288468	.69060848	.79317998	.86890278	.92088838	.95440818	.97482098	.98663998
10	.42492368	.56175158	.68448438	.78479538	.86049538	.91378188	.94904828	.97113148
11	.29938528	.43003108	.56088898	.67927868	.77745858	.85293698	.90720558	.94395458
12	.19657208	.30899548	.43451618	.56024578	.67481238	.77099578	.84611978	.90113038
13	.12048368	.20805778	.31737288	.43850738	.55977778	.67095118	.76527078	.83995298
14	.06889708	.13130708	.21825188	.32485648	.44209868	.55945258	.66785958	.76017558
15	.03682758	.07770338	.14124568	.22744148	.33156928	.44536098	.55924578	.66466038
16	.01843168	.04315888	.08604358	.15039498	.23577708	.33763718	.44034858	.55915848
17	.00865248	.02282808	.04937148	.09392348	.15888048	.24337888	.33431598	.45111048
18	.00381668	.01106648	.02670898	.05542018	.10135918	.16666708	.25034588	.34822148
19	.00158478	.00512548	.01362768	.03091808	.06137638	.10837228	.17391018	.25675668
20	.00062048	.00223888	.00658028	.01632228	.03511228	.06692368	.11498648	.18065678
21	.00023948	.00093478	.00300398	.00816198	.01908298	.03925918	.07235348	.12122628
22	.00008028	.00036158	.00129908	.00386978	.00984448	.02188848	.04333438	.07756308
23	.00002668	.00013398	.00053278	.00174148	.00482458	.01160558	.02471258	.04732008
24	.00000838	.00004718	.00020748	.00074458	.00224808	.00585588	.01342508	.02753388
25	.00000258	.00001578	.00007688	.00030278	.00099688	.00281388	.00695148	.01528518
26	.00000078	.00000508	.00002708	.00011728	.00042108	.00128868	.00345278	.00809938
27	.00000028	.00000158	.00000918	.00004328	.00016958	.00056288	.00161778	.00409838
28		.00000048	.00000298	.00001528	.00006518	.00023468	.00073008	.00198158
29		.00000018	.00000098	.00000518	.00002398	.00009348	.00031308	.00091568
30			.00000038	.00000168	.00000848	.00003558	.00012878	.00040498
31			.00000018	.00000058	.00000288	.00001298	.00005068	.00017138
32				.00000018	.00000098	.00000458	.00001908	.00006948
33					.00000038	.00000158	.00000698	.00002698
34					.00000018	.00000058	.00000248	.00001008
35						.00000018	.00000088	.00000368
36							.00000028	.00000128
37							.00000018	.00000048
38								.00000018

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999984	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
4	.99998888	.99999960	.99999986	.99999995	.99999998	1.00000000	1.00000000	1.00000000
5	.99994068	.99997738	.99999158	.99999698	.99999898	.99999968	.99999998	1.00000000
6	.99974898	.99989768	.99995948	.99998438	.99999418	.99999788	.99999928	.99999978
7	.99911898	.99961788	.99983878	.99993398	.99997368	.99998988	.99999618	.99999868
8	.99737508	.99878438	.99945478	.99976288	.99989098	.99995898	.99998368	.99999368
9	.99311758	.99663448	.99839628	.99926038	.99966948	.99985668	.99994978	.99997538
10	.98428108	.99179778	.99580308	.99796218	.99903638	.99955868	.99980408	.99991558
11	.96758468	.98190928	.99038378	.99497628	.99748808	.99878528	.99943118	.99974198
12	.93911388	.96408468	.97954958	.98880088	.99408338	.99698058	.99859088	.99938828
13	.89388178	.93458068	.96064778	.97722208	.98729548	.99216298	.99644598	.99821368
14	.83436038	.89033168	.93089348	.95740458	.97494228	.98579138	.99222518	.99558048
15	.75586248	.83892778	.88553828	.92626268	.95430168	.97727238	.98430058	.99127908
16	.66280898	.77154478	.82464918	.88110688	.92324788	.95134278	.97057148	.98288328
17	.55571418	.69598988	.74787998	.82042888	.87700968	.91893068	.94852898	.96849648
18	.45346198	.61911678	.66784808	.74458138	.81657638	.87328138	.91560848	.94458608
19	.35888638	.54604928	.55928208	.65609258	.74168848	.81305698	.86971928	.91250148
20	.26868078	.35716718	.45828858	.55945358	.65455388	.73892728	.80984058	.86648298
21	.18694668	.26817338	.36116018	.46039858	.55967538	.65330298	.73650868	.80690118
22	.12711548	.19888328	.27328208	.36468118	.46239478	.55994238	.65202048	.73433788
23	.08085528	.13867678	.19832438	.27804728	.36883608	.46429058	.56025058	.65099018
24	.05180338	.09733778	.13793168	.20348328	.28250348	.37162448	.46609698	.56059638
25	.03033488	.05497508	.09189158	.14290008	.20832938	.28668068	.37469468	.46768378

$$P(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 101

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
26	.0171701	.0331014	.0586290	.0962810	.1476004	.2138883	.2906045	.3775901
27	.0093853	.0190662	.0358222	.0611513	.1004128	.1520497	.2171831	.2942976
28	.0046041	.0105062	.0209618	.0384878	.0655697	.1043841	.1563635	.2212340
29	.0023767	.0055433	.0117494	.0228465	.0410912	.0688532	.1081721	.1602561
30	.0011252	.0027999	.0063098	.0130032	.0247117	.0436266	.0720120	.1117836
31	.0005100	.0013546	.0032475	.0070973	.0142620	.0265501	.0460894	.0750466
32	.0002214	.0006280	.0016023	.0037156	.0079001	.0155189	.0283558	.0484768
33	.0000921	.0002791	.0007581	.0018663	.0042006	.0087127	.0167675	.0301817
34	.0000367	.0001189	.0003441	.0008996	.0021445	.0046989	.0095303	.0180024
35	.0000140	.0000486	.0001499	.0004168	.0010513	.0024346	.0052068	.0103481
36	.0000052	.0000191	.0000627	.0001849	.0004950	.0012121	.0027346	.0057810
37	.0000018	.0000072	.0000253	.0000789	.0002239	.0005800	.0013808	.0030422
38	.0000006	.0000025	.0000097	.0000323	.0000974	.0002667	.0006704	.0015560
39	.0000002	.0000009	.0000036	.0000127	.0000407	.0001179	.0003130	.0007656
40	.0000001	.0000003	.0000013	.0000048	.0000163	.0000501	.0001405	.0003684
41		.0000001	.0000004	.0000018	.0000063	.0000205	.0000607	.0001651
42			.0000001	.0000006	.0000023	.0000081	.0000252	.0000723
43				.0000002	.0000008	.0000030	.0000101	.0000305
44				.0000001	.0000003	.0000011	.0000039	.0000124
45					.0000001	.0000004	.0000014	.0000048
46						.0000001	.0000005	.0000018
47							.0000002	.0000007
48							.0000001	.0000002
49								.0000001

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999902	.9999962	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000
10	.9999647	.9999856	.9999943	.9999978	.9999992	.9999997	.9999999	1.0000000
11	.9998844	.9999515	.9999799	.9999919	.9999968	.9999988	.9999996	.9999998
12	.9996706	.9998523	.9999357	.9999729	.9999889	.9999956	.9999983	.9999994
13	.9991310	.9995906	.9998131	.9999173	.9999645	.9999852	.9999940	.9999977
14	.9978998	.9989615	.9995028	.9997694	.9998963	.9999548	.9999809	.9999922
15	.9953200	.9975719	.9987812	.9994078	.9997213	.9998729	.9999438	.9999759
16	.9903384	.9947401	.9972333	.9985921	.9993066	.9996693	.9998478	.9999316
17	.9813962	.9893924	.9941560	.9966873	.9983962	.9992003	.9996140	.9998195
18	.9665086	.9799977	.9884652	.9935722	.9965359	.9981953	.9990899	.9995558
19	.9433349	.9645937	.9786426	.9875560	.9929930	.9961853	.9979913	.9989766
20	.9095993	.9409509	.9627721	.9773356	.9866696	.9924222	.9958350	.9977860
21	.8634941	.9066925	.9387055	.9610396	.9760601	.9858098	.9918631	.9954887
22	.8042160	.8607362	.9043718	.9365956	.9593969	.9748793	.9849801	.9913189
23	.7323637	.8017650	.8581944	.9020884	.9346178	.9578446	.9737358	.9841834
24	.6500980	.7305976	.7995307	.8556552	.8998542	.9327687	.9563825	.9726498
25	.5609768	.6493321	.7290137	.7974975	.8537067	.8978416	.9310450	.9550108
26	.4694791	.5613897	.6486622	.7275979	.7956518	.8517379	.8959837	.9294431
27	.3803875	.4710704	.5618329	.6481394	.7263382	.7939815	.8499390	.8948759
28	.2977797	.3839210	.4726041	.5623047	.6476961	.7252239	.7924757	.8483018
29	.2250590	.3010680	.3853033	.4740856	.5628037	.6473454	.7252456	.7911249
30	.1640405	.2286742	.3041778	.3877855	.4755199	.5633287	.6470817	.7233949
31	.1153857	.1676287	.2320941	.3071328	.3899573	.4769116	.5630709	.6468998
32	.0779585	.1185048	.1710315	.2353314	.3099148	.3920873	.4788545	.5644534
33	.0507845	.0807491	.1216273	.1742590	.2383979	.3125646	.3941234	.4795828
34	.0318450	.0530122	.0834205	.1245990	.1773208	.2413040	.3150819	.3960725
35	.0192187	.0335213	.0551500	.0859746	.1274257	.1802235	.2440590	.3174752
36	.0111619	.0204121	.0351474	.0572209	.0884136	.1301125	.1889764	.2466715
37	.0062383	.0119678	.0215787	.0367906	.0592003	.0907396	.1426644	.1855860
38	.0033551	.0067857	.0127622	.0227151	.0382384	.0610959	.0989548	.1350861
39	.0017365	.0036714	.0072702	.0135419	.0238183	.0396990	.0669076	.0950613
40	.0008649	.0019209	.0039889	.0077792	.0143039	.0248857	.0441007	.0646353
41	.0004146	.0009675	.0021078	.0043057	.0082803	.0150455	.0289149	.0434422
42	.0001913	.0004692	.0010726	.0022959	.0046198	.0087710	.0185648	.0286038
43	.0000850	.0002190	.0005256	.0011793	.0024839	.0049295	.0092493	.0184579
44	.0000363	.0000985	.0002481	.0005855	.0012869	.0026706	.0052331	.0097130
45	.0000149	.0000486	.0001187	.0002781	.0006424	.0013944	.0028547	.0055891
46	.0000059	.0000178	.0000493	.0001277	.0003089	.0007016	.0015018	.0030351
47	.0000023	.0000071	.0000208	.0000565	.0001431	.0003402	.0007608	.0016063
48	.0000008	.0000028	.0000084	.0000240	.0000639	.0001589	.0003716	.0008195
49	.0000003	.0000010	.0000033	.0000099	.0000275	.0000715	.0001749	.0004030
50	.0000001	.0000004	.0000012	.0000039	.0000114	.0000310	.0000793	.0001909
51		.0000001	.0000004	.0000015	.0000045	.0000129	.0000346	.0000878
52			.0000002	.0000005	.0000017	.0000052	.0000146	.0000383
53			.0000001	.0000002	.0000005	.0000020	.0000059	.0000168
54				.0000001	.0000002	.0000008	.0000023	.0000066
55					.0000001	.0000003	.0000009	.0000026
56						.0000001	.0000003	.0000010
57							.0000001	.0000004
58								.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 101

x	.33	.34	.35	.36	.37	.38	.39	.40
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	.99999991	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	.99999960	.99999988	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000
15	.99999800	.99999960	.99999984	.99999994	.99999998	.99999999	1.00000000	1.00000000
16	.99997031	.99998875	.99999949	.99999800	.99999922	.99999997	.99999999	1.00000000
17	.99991831	.99996431	.99998448	.99999337	.99999755	.99999900	.99999966	.99999999
18	.99977901	.99990039	.99995714	.99998817	.99999524	.99999863	.99999948	.99999986
19	.99944954	.99975592	.99988847	.99995502	.99997864	.99999810	.99999631	.99999886
20	.99886614	.99943341	.99972272	.99989728	.99994426	.99997750	.99999094	.99999577
21	.99758101	.99874541	.99937041	.99969431	.99985641	.99993471	.99997131	.99999078
22	.99514871	.99737421	.99862951	.99930711	.99956111	.99983971	.99990266	.99996751
23	.99079221	.99441711	.99717891	.99851501	.99892441	.99962781	.99968221	.99991841
24	.98342201	.98903541	.99449581	.99690451	.99784031	.99911171	.99959471	.99980601
25	.97162431	.98269021	.98980051	.99418671	.99679651	.99829321	.99912091	.99956231
26	.95372701	.97065991	.98201351	.98933951	.99389131	.99661591	.99818701	.99906201
27	.92795991	.95253221	.96975701	.98139651	.98899381	.99361091	.99644391	.99808701
28	.89270631	.92659201	.95148471	.96891641	.98076731	.98849491	.99334691	.99628151
29	.84568161	.89127511	.92533641	.95040351	.96811301	.98020781	.98811391	.99310031
30	.78992961	.84547751	.88999541	.92419031	.94946741	.96742241	.97969191	.98776101
31	.72266471	.78888551	.84427801	.88888241	.92311071	.94861541	.96676911	.97922021
32	.64679531	.72204841	.78792171	.84321191	.88775181	.92221511	.94784611	.96617811
33	.56505171	.64676431	.72154041	.78711431	.84227401	.88681961	.92138111	.94715851
34	.48086801	.56567321	.64660351	.72113581	.78642751	.84145941	.88660231	.92064631
35	.39794071	.48821241	.56631761	.64691001	.72083011	.78585561	.84076401	.88529661
36	.31975221	.39973371	.48335521	.56698481	.64708131	.72061931	.78539731	.84018381
37	.24414911	.32191491	.40145651	.48456191	.56776751	.64731511	.72050031	.78450501
38	.18005851	.25149881	.32390461	.40311361	.48574701	.56838691	.64760971	.72046991
39	.13738161	.19039981	.25377261	.32595201	.40470911	.48691261	.56911291	.64796351
40	.09706121	.13955511	.19261501	.25583881	.32702711	.40624591	.48806071	.56987971
41	.06627931	.09895641	.14161011	.19470891	.25784001	.32961461	.40773041	.48919321
42	.04372231	.06783971	.10074871	.14354991	.19668601	.25973501	.33131861	.40916261
43	.02785071	.04494001	.06931701	.10244001	.14537771	.19855021	.26152801	.33294301
44	.01712451	.02875371	.04609451	.07071131	.10403171	.14709611	.20032491	.26322281
45	.01016051	.01776221	.02961151	.04718511	.07202301	.10552551	.14870781	.20195351
46	.00561581	.01059891	.01836921	.03042271	.04821111	.07325241	.10692261	.15021491
47	.00321061	.00609191	.01099971	.01894421	.03118681	.04917201	.07439981	.10882431
48	.00170911	.00338031	.00635611	.01138841	.01940561	.03190091	.05006731	.07545551
49	.00087711	.00180881	.00354311	.00660711	.01175481	.01999221	.03256581	.05089651
50	.00043391	.00091021	.00190401	.00369601	.00694391	.01209751	.02046301	.03318011
51	.00020681	.00046411	.00098731	.00199621	.00398431	.00706531	.01241551	.02089671
52	.00009501	.00022241	.00049331	.00103901	.00220261	.00398101	.00727051	.01237071
53	.00004201	.00010271	.00023751	.00052121	.00118781	.00216341	.00411071	.00745841
54	.00001791	.00004571	.00011021	.00025201	.00059761	.00113341	.00223791	.00422301
55	.00000731	.00001961	.00004921	.00011731	.00028561	.00057231	.00111751	.00230571
56	.00000291	.00000811	.00002121	.00005261	.00012411	.00027841	.00059491	.00121351
57	.00000111	.00000321	.00000881	.00002271	.00005581	.00013041	.00029001	.00061531
58	.00000041	.00000121	.00000351	.00000941	.00002421	.00005881	.00013621	.00030051
59	.00000011	.00000041	.00000131	.00000381	.00001011	.00002551	.00006151	.00014131
60		.00000021	.00000051	.00000151	.00000401	.00001071	.00002671	.00006391
61		.00000011	.00000021	.00000051	.00000161	.00000431	.00001121	.00002781
62			.00000011	.00000021	.00000061	.00000171	.00000451	.00001161
63				.00000011	.00000021	.00000061	.00000171	.00000471
64					.00000011	.00000021	.00000061	.00000181
65						.00000011	.00000021	.00000071
66							.00000011	.00000021
67								.00000011

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	.99999983	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
21	.99999950	.99999980	.99999992	.99999997	.99999999	1.00000000	1.00000000	1.00000000
22	.99999861	.99999943	.99999977	.99999991	.99999997	.99999999	1.00000000	1.00000000
23	.99999637	.99999844	.99999935	.99999974	.99999990	.99999996	.99999999	1.00000000
24	.99991102	.99995398	.99998827	.99999928	.99999971	.99999989	.99999996	.99999998
25	.99977894	.99990021	.99995601	.99998809	.99999920	.99999968	.99999987	.99999995
26	.99955308	.99977733	.99989421	.99995231	.99999793	.99999913	.99999965	.99999986
27	.99900055	.99955006	.99977577	.99988651	.99999487	.99999776	.99999906	.99999629
28	.99779116	.99899520	.99947191	.99974301	.99998791	.99999451	.99999761	.99999899
29	.99612351	.99790231	.99890191	.99944501	.99997201	.99998726	.99999421	.99999741
30	.99287211	.99598881	.99781961	.99885551	.99994201	.99997161	.99998661	.99999391
31	.98743951	.99266331	.99585991	.99774401	.99988131	.99993761	.99997051	.99996091
32	.98079301	.98711471	.99247421	.99574371	.99976761	.99987751	.99993771	.99989511
33	.96564931	.97841081	.98688691	.99230571	.99956401	.99976151	.99987421	.99976031
34	.94655141	.96511831	.97807371	.98665751	.99921581	.99955071	.99973771	.99957141

$$P(c,n,p) = \sum_{x=0}^{c} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 101

x	.41	.42	.43	.44	.45	.46	.47	.48
35	.9200086	.9460237	.9647767	.9777819	.9864600	.9920322	.9954748	.9975211
36	.8846995	.9194660	.9455743	.9644322	.9775353	.9862946	.9919879	.9954136
37	.8397154	.8842083	.9190167	.9452022	.9641483	.9773340	.9861614	.9910455
38	.7847989	.8393558	.8836306	.9186590	.9449064	.9639245	.9771778	.9860604
39	.7205256	.7846537	.8391023	.8835341	.9183914	.9446860	.9637605	.9770666
40	.6483752	.7206652	.7846076	.8389525	.8833470	.9182125	.9445400	.9636556
41	.5706606	.6488437	.7208870	.7846585	.8389044	.8832576	.9181210	.9444677
42	.4903117	.5714650	.6493684	.7211893	.7844046	.8389561	.8832643	.9181157
43	.4105464	.4914180	.5722931	.6499485	.7215710	.7850443	.8391063	.8833659
44	.3344918	.4118845	.4925135	.5731456	.6505837	.7220311	.7853765	.8393537
45	.2648227	.3359662	.4131792	.4935998	.5740230	.6512738	.7225689	.7856002
46	.2034987	.2663308	.3373709	.4144387	.4946782	.5749259	.6581089	.7231840
47	.1516198	.2044431	.2677498	.3387078	.4186471	.4957502	.5758551	.6528198
48	.1094515	.1509234	.2062869	.2690822	.3399790	.4168341	.4968171	.5768114
49	.0764497	.1105453	.1541280	.2075388	.2703300	.3411866	.4179656	.4978802
50	.0516592	.0773526	.1115663	.1552347	.2086985	.2714949	.3423324	.4190729
51	.0337428	.0523550	.0781741	.1124953	.1562446	.2097533	.2735787	.3434179
52	.0212985	.0342534	.0529835	.0789144	.1133327	.1571585	.2107216	.2738826
53	.0129733	.0216494	.0347109	.0535442	.0795733	.1140787	.1579770	.2115985
54	.0076285	.0132118	.0219667	.0351149	.0540367	.0801508	.1147336	.1587007
55	.0043270	.0077798	.0134209	.0222436	.0354645	.0544605	.0806465	.1152973
56	.0023664	.0044187	.0079117	.0136015	.0224794	.0357594	.0548158	.0810608
57	.0012473	.0024195	.0044979	.0080237	.0137524	.0226735	.0359987	.0551003
58	.0006333	.0012766	.0024647	.0045639	.0081153	.0138731	.0220253	.0361821
59	.0003096	.0006487	.0013011	.0025016	.0046164	.0081859	.0139630	.0222343
60	.0001457	.0003173	.0006614	.0013207	.0025300	.0046551	.0082353	.0140219
61	.0000660	.0001494	.0003235	.0006712	.0013351	.0025497	.0046798	.0082631
62	.0000287	.0000676	.0001522	.0003281	.0006780	.0013443	.0025605	.0046901
63	.0000120	.0000294	.0000689	.0001543	.0003311	.0006818	.0013481	.0025623
64	.0000048	.0000123	.0000299	.0000697	.0001554	.0003324	.0006825	.0013464
65	.0000019	.0000049	.0000125	.0000302	.0000701	.0001557	.0003320	.0006800
66	.0000007	.0000019	.0000050	.0000126	.0000303	.0000700	.0001551	.0003299
67	.0000002	.0000007	.0000019	.0000050	.0000126	.0000302	.0000695	.0001534
68	.0000001	.0000002	.0000007	.0000019	.0000050	.0000125	.0000299	.0000684
69		.0000001	.0000002	.0000007	.0000019	.0000050	.0000123	.0000893
70			.0000001	.0000002	.0000007	.0000019	.0000049	.0000120
71				.0000001	.0000002	.0000007	.0000018	.0000047
72					.0000001	.0000002	.0000007	.0000018
73						.0000001	.0000002	.0000006
74							.0000001	.0000002
75								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	.9999999	1.0000000
25	.9999998	.9999999
26	.9999995	.9999998
27	.9999985	.9999994
28	.9999959	.9999984
29	.9999883	.9999957
30	.9999734	.9999888
31	.9999368	.9999723
32	.9998541	.9999346
33	.9996865	.9998520
34	.9993457	.9996794
35	.9986910	.9993941
36	.9974867	.9986731
37	.9953655	.9974613
38	.9917858	.9953125
39	.9859018	.9917471
40	.9770001	.9854553
41	.9636095	.9769780
42	.9444682	.9636215
43	.9181958	.9445408
44	.8835614	.9183404
45	.8396972	.8838498
46	.7863149	.8401363
47	.7238741	.7869200
48	.6536749	.7246455
49	.5777956	.6545868
50	.4989407	.5788090
51	.4201476	.5000000
52	.3444445	.4211910

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 101

x	.49	.50
53	.8745075	.3454138
54	.8138845	.2753545
55	.1593295	.2130800
56	.1157696	.1598637
57	.0813914	.1161502
58	.0553151	.0816396
59	.0363088	.0564592
60	.0230000	.0363785
61	.0140492	.0230220
62	.0082690	.0140447
63	.0046841	.0082539
64	.0025581	.0046675
65	.0013394	.0025907
66	.0006745	.0013869
67	.0003261	.0006659
68	.0001512	.0003206
69	.0000672	.0001480
70	.0000286	.0000654
71	.0000116	.0000277
72	.0000045	.0000113
73	.0000017	.0000043
74	.0000006	.0000016
75	.0000002	.0000006
76	.0000001	.0000002
77		.0000001

$$P(r \le r_1 \mid p) = \sum_{r=0}^{r_1} \binom{n}{r} p^r (1-p)^{n-r}$$

$n = 10$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.64138517	.87286322	.95582578	.98445823	.99465667	.99818443	.99939201	.99977975
2	.92716322	.98074992	.99411125	.99837746	.99897108	.99963630	.99947076	.99990017
3	.98308890	.99348498	.99366636	.99893662	.99897301	.99948583	.99769092	.99991186
4	.99960064	.99883659	.99963971	.99962273	.99959789	.99971843	.99938535	.99978579
5	.99997358	.99944756	.99991924327	.99970037	.99917365	.99991046	.99990644	.99998639
6	.99999937	.99999195	.99997780	.99992498	.99984980	.99997688	.99997380	.99998801
7	.99999996	.99999885	.99999885	.99999506	.99998978	.99999890	.99999990	.99999880
8	.99999999	.99999995	.99999961	.99999866	.99999730	.99999952	.99999988	.99999995
9	.99999999	.99999999	.99999996	.99999991	.99999971	.99999995	.99999998	.99999999
10	.99999999	.99999999	.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
11		.99999999	.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
12		.99999999	.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
13		.99999999	.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
14			.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
15			.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
16			.99999999	.99999999	.99999999	.99999999	.99999999	.99999999
17				.99999999	.99999999	.99999999	.99999999	.99999999
18				.99999999	.99999999	.99999999	.99999999	.99999999
19					.99999999	.99999999	.99999999	.99999999
20					.99999999	.99999999	.99999999	.99999999
21						.99999999	.99999999	.99999999
22						.99999999	.99999999	.99999999
23							.99999999	.99999999
24							.99999999	.99999999
25								.99999999
26								.99999999

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.99999336	.99999785	.99999931	.99999970	.99999993	.99999998	.99999999	1.00000000
2	.99992637	.99997347	.99999063	.99999676	.99999890	.99999963	.99999988	.99999996
3	.99959177	.99983665	.99993647	.99997594	.99999111	.99999679	.99999867	.99999961
4	.99848872	.99932991	.99971334	.99988129	.99995229	.99998135	.99999090	.99999737
5	.99578067	.99793640	.99903079	.99956196	.99980874	.99991917	.99996685	.99998679
6	.99055473	.99490164	.99737732	.99870812	.99938832	.99978074	.99987676	.99994738
7	.98118617	.98945030	.99407348	.99682601	.99877270	.99959854	.99961973	.99988597
8	.97083540	.98114350	.98847340	.99330621	.99629143	.99803268	.99897767	.99950895
9	.95750449	.97018314	.98025417	.98760653	.99259838	.99577892	.99769409	.99879004
10	.94373410	.95746378	.96964408	.97948882	.98683477	.99194695	.99389141	.99736187
11	.92106837	.94330031	.95744844	.96919408	.97883533	.98614552	.99134819	.99483038
12	.89059162	.92310633	.94484171	.95745296	.96881563	.97824675	.98558825	.98979823
13	.85273405	.89181474	.93025586	.94531139	.95747322	.96949574	.97773901	.98497413
14	.80736908	.85390821	.91291548	.93184945	.94573969	.95750493	.96892451	.97789401
15	.75397138	.80830637	.89497162	.91739312	.93459380	.94613337	.95754970	.96799428
16	.69200872	.75466132	.87211158	.89961405	.92483300	.93527184	.94649031	.95760919
17	.62095386	.69245911	.84534054	.87807000	.91688488	.92565750	.93589376	.94638066
18	.54085518	.62282186	.81508917	.85300405	.91088317	.91773981	.92643673	.93646767
19	.45317855	.54657177	.78150754	.82533582	.90644871	.91165391	.91853753	.92713900
20	.35907072	.46485272	.74473565	.79540737	.90365136	.90727264	.91238880	.91928127
21	.26002646	.37910561	.70533973	.76391411	.90211667	.90431321	.90787484	.91307351
22	.15800936	.29041178	.66414865	.73143848	.90110454	.90243203	.90476073	.90845091
23	.05600314	.20001567	.62206170	.69859868	.90054771	.90130451	.90275057	.90538939
24	.05601100	.10900558	.57992432	.66606641	.90025830	.90066608	.90151161	.90369496
25	.00000030	.01860189	.53850912	.63443557	.90011595	.90032397	.90079284	.90279449
26	.00000009	.00000061	.49850325	.60413394	.90004959	.90015021	.90039605	.90238490
27	.00000002	.00000019	.46044110	.57550521	.90002122	.90006644	.90018829	.90223305
28	.00000001	.00000005	.42477036	.54879787	.90000907	.90002808	.90008514	.90218208
29		.00000002	.39186011	.52415063	.90000392	.90001133	.90003758	.90216453
30			.36200003	.50162031	.90000104	.90000436	.90001565	.90214866
31			.33542006	.48118161	.90000035	.90000161	.90000633	.90213086
32			.31228003	.46274011	.90000011	.90000057	.90000238	.90211857
33			.29267001	.44615004	.90000004	.90000019	.90000087	.90210537
34			.27660000	.43120001	.90000001	.90000006	.90000030	.90209127
35						.90000002	.90000010	.90207646
36						.90000001	.90000003	.90206116
37							.90000001	.90204555
38								.90202983
39								.90201421

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999987	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999905	.99999966	.99999988	.99999996	.99999999	1.00000000	1.00000000	1.00000000
5	.99994488	.99998807	.99999929	.99999974	.99999991	.99999997	.99999999	1.00000000
6	.99978015	.99991120	.99996655	.99998968	.99999951	.99999988	.99999994	.99999998
7	.99922276	.99966682	.99988617	.99996440	.99998779	.99999815	.99999948	.99999989
8	.99767118	.99890343	.99959277	.99987970	.99996153	.99999657	.99999845	.99999948
9	.99388877	.99702213	.99859773	.99963608	.99987178	.99998791	.99999490	.99999797
10	.98519907	.99263555	.99631880	.99882217	.99961608	.99996848	.99998358	.99999299
11	.97037332	.98368819	.99134857	.99557734	.99781132	.99989553	.99995169	.99997835
12	.94395912	.96724388	.98159909	.99003592	.99479833	.99973775	.99987817	.99993970
13	.90393822	.93988805	.96423900	.97953788	.98872008	.99940088	.99969806	.99984715
14	.84475712	.89882964	.93606072	.96136802	.97753642	.99874131	.99919599	.99964480
15	.76900092	.84026671	.89404172	.93249102	.95866361	.99755978	.99818258	.99933857
16	.67779900	.76553666	.83621800	.89013802	.93916132	.99560462	.99737891	.99868598
17	.57662215	.67633852	.76034661	.83356442	.91665581	.99260618	.99535987	.99719371
18	.47158891	.57728864	.67749493	.75975082	.88393673	.98833773	.99311801	.99518928
19	.37000015	.47461042	.57800084	.67377903	.83573517	.98262930	.98802737	.99205075
20	.27801233	.37496592	.47747732	.57877813	.67283532	.97553857	.98236186	.98775874
21	.19982142	.28841922	.37961452	.48020952	.57959982	.96720622	.97537249	.98118008
22	.13738657	.20638632	.28997082	.38398462	.48882237	.95804596	.96714537	.97517454
23	.09012882	.14350312	.21235662	.29541392	.38810702	.94853339	.95813576	.96709118
24	.05653282	.09549052	.14940622	.21833960	.30053342	.93920110	.94877532	.95888908

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 102

p	.17	.18	.19	.20	.21	.22	.23	.24
85	.0338885	.0607985	.1006391	.1580167	.2339059	.3053688	.3957171	.4900891
86	.0194081	.0370387	.0649488	.1055008	.1603335	.2291286	.3099458	.3988448
87	.0106282	.0219926	.0401554	.0689792	.1103228	.1654348	.2340700	.3148078
88	.0055664	.0126486	.0237858	.0432225	.0738867	.1148706	.1708790	.2387693
89	.0027895	.0069370	.0134997	.0259748	.0482317	.0796700	.1192331	.1740798
90	.0013379	.0032937	.0073433	.0149719	.0301514	.0491764	.0803288	.1232170
91	.0006146	.0016148	.0038293	.0082785	.0184565	.0303069	.0538516	.0838645
92	.0002705	.0007588	.0019149	.0043920	.0109361	.0179457	.0354340	.0634851
93	.0001141	.0003419	.0009185	.0023362	.0063775	.0102101	.0229396	.0469841
94	.0000461	.0001478	.0004228	.0010929	.0035763	.0055819	.0144148	.0340110
95	.0000179	.0000613	.0001868	.0004889	.0019809	.0029388	.0088018	.0241831
96	.0000067	.0000244	.0000792	.0002312	.0010619	.0014811	.0053038	.0169315
97	.0000024	.0000093	.0000323	.0001001	.0005809	.0007190	.0031688	.0116884
98	.0000008	.0000034	.0000126	.0000417	.0003139	.0003356	.0018378	.0079187
99	.0000003	.0000012	.0000048	.0000167	.0001586	.0001507	.0010958	.0053553
100	.0000001	.0000004	.0000017	.0000064	.0000774	.0000651	.0006018	.0035922
101		.0000001	.0000006	.0000024	.0000384	.0000270	.0000791	.0002184
102			.0000002	.0000008	.0000182	.0000108	.0000434	.0000946
103			.0000001	.0000003	.0000082	.0000040	.0000236	.0000405
104				.0000001	.0000034	.0000015	.0000123	.0000167
105					.0000014	.0000005	.0000063	.0000066
106						.0000002	.0000031	.0000025
107						.0000001	.0000007	.0000009
108							.0000003	.0000003
109							.0000001	.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999981	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999920	.9999970	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
10	.9999710	.9999864	.9999955	.9999983	.9999994	.9999998	.9999999	1.0000000
11	.9998966	.9999604	.9999838	.9999935	.9999975	.9999991	.9999997	.9999999
12	.9997245	.9998780	.9999478	.9999782	.9999912	.9999965	.9999987	.9999995
13	.9990659	.9996507	.9998462	.9999328	.9999716	.9999883	.9999953	.9999982
14	.9980076	.9991250	.9995866	.9998103	.9999161	.9999639	.9999850	.9999939
15	.9959649	.9979332	.9989760	.9995090	.9997720	.9998975	.9999553	.9999811
16	.9915793	.9954764	.9976512	.9988805	.9994868	.9997304	.9998772	.9999458
17	.9836303	.9907830	.9949869	.9977646	.9986602	.9993410	.9996853	.9998554
18	.9702260	.9834403	.9900017	.9945004	.9970761	.9984968	.9992524	.9996408
19	.9491268	.9685987	.9813917	.9892406	.9940207	.9967883	.9983319	.9991619
20	.9180332	.9470980	.9670572	.9801973	.9885034	.9935511	.9965035	.9981670
21	.8750304	.9157477	.9452035	.9656022	.9791511	.9877935	.9930944	.9962938
22	.8190355	.8737369	.9134419	.9434399	.9648351	.9781584	.9871139	.9928532
23	.7503267	.8170975	.8706623	.9117072	.9416038	.9629550	.9772211	.9864668
24	.6706644	.7491011	.8155699	.8687837	.9099356	.9402915	.9617610	.9763405
25	.5838571	.6704611	.7480532	.8138377	.8670495	.9083190	.9388996	.9606549
26	.4923535	.5842547	.6703717	.7471690	.8124677	.8655690	.9060527	.9376844
27	.4026154	.4945534	.5858823	.6703878	.7464392	.8113084	.8648189	.9055881
28	.3184166	.4058399	.4964958	.5863384	.6705023	.7458512	.8108893	.8630125
29	.2438392	.3223498	.4089329	.4987869	.5874335	.6707090	.7483969	.8094813
30	.1792951	.2474966	.3271033	.4119063	.5000382	.5885337	.6710025	.7450685
31	.1274294	.1838005	.2515567	.3296915	.4147704	.5038367	.5896710	.6713788
32	.0878753	.1312770	.1875184	.2554330	.3331271	.4175346	.5048049	.5908363
33	.0575780	.0904656	.1349664	.1913593	.2559137	.3364214	.4209078	.5067410
34	.0365799	.0602338	.0937363	.1385038	.1850327	.2626823	.3395848	.4227956
35	.0223753	.0388890	.0627889	.0967894	.1218951	.1985476	.2660761	.3485863
36	.0131761	.0243305	.0405502	.0652719	.0997371	.1451458	.2019120	.2693887
37	.0074692	.0146133	.0259433	.0424607	.0676732	.1035515	.1482612	.2051334
38	.0040759	.0081108	.0151426	.0266366	.0443173	.0699890	.1052648	.1518460
39	.0021413	.0044733	.0083530	.0161104	.0280001	.0461101	.0728882	.1070693
40	.0010888	.0023760	.0044748	.0093989	.0170631	.0293297	.0478608	.0743716
41	.0005272	.0012154	.0023157	.0052783	.0100271	.0179975	.0306285	.0495449
42	.0002471	.0005988	.0011521	.0028586	.0056813	.0106533	.0189109	.0316761
43	.0001115	.0002841	.0005733	.0014919	.0031033	.0060820	.0112669	.0190006
44	.0000485	.0001298	.0002730	.0007504	.0016340	.0033483	.0064781	.0111714
45	.0000203	.0000571	.0001493	.0003656	.0008293	.0017773	.0035910	.0062679
46	.0000082	.0000242	.0000665	.0001698	.0004056	.0009095	.0019207	.0034339
47	.0000033	.0000099	.0000285	.0000764	.0001912	.0004486	.0009903	.0018435
48	.0000012	.0000039	.0000118	.0000331	.0000869	.0002133	.0004923	.0009713
49	.0000004	.0000015	.0000047	.0000138	.0000380	.0000977	.0002359	.0005368
50	.0000001	.0000005	.0000018	.0000056	.0000160	.0000432	.0001089	.0002888
51		.0000002	.0000007	.0000022	.0000068	.0000184	.0000485	.0001504
52		.0000001	.0000002	.0000008	.0000028	.0000075	.0000208	.0000769
53			.0000001	.0000003	.0000010	.0000030	.0000086	.0000383
54				.0000001	.0000003	.0000011	.0000034	.0000187
55					.0000001	.0000004	.0000013	.0000089
56						.0000001	.0000005	.0000039
57							.0000002	.0000015
58							.0000001	.0000006
59								.0000002
60								.0000001

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$N(n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 102

r	.33	.34	.35	.36	.37	.38	.39	.40
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999923	.9999968	.9999988	.9999996	.9999998	.9999999	1.0000000	1.0000000
16	.9999768	.9999904	.9999961	.9999985	.9999994	.9999998	.9999999	1.0000000
17	.9999355	.9999721	.9999883	.9999953	.9999981	.9999993	.9999997	.9999999
18	.9998384	.9999244	.9999670	.9999860	.9999943	.9999977	.9999991	.9999997
19	.9995986	.9998084	.9999138	.9999616	.9999836	.9999938	.9999973	.9999990
20	.9990706	.9994442	.9997837	.9999007	.9999559	.9999810	.9999921	.9999968
21	.9980036	.9987793	.9994253	.9997586	.9998883	.9999500	.9999784	.9999910
22	.9959514	.9978430	.9988089	.9994465	.9997334	.9998758	.9999441	.9999756
23	.9922898	.9956878	.9976066	.9988001	.9993982	.9997083	.9998633	.9999381
24	.9858542	.9918261	.9955349	.9977535	.9985119	.9993818	.9996833	.9998510
25	.9755176	.9852778	.9914439	.9951939	.9973907	.9986308	.9993057	.9996598
26	.9596331	.9747529	.9847390	.9910845	.9949660	.9972533	.9985517	.9992621
27	.9364650	.9596956	.9748468	.9842307	.9907491	.9947588	.9971840	.9984770
28	.9043399	.9354117	.9570410	.9733995	.9837778	.9904390	.9945547	.9970037
29	.8619601	.9038050	.9344673	.9570681	.9738109	.9833569	.9901547	.9943728
30	.8086968	.8610487	.9083517	.9336870	.9563786	.9732808	.9829765	.9898978
31	.7448591	.8081067	.8602731	.9015480	.9328879	.9557620	.9718090	.9826360
32	.6718388	.7447697	.8076444	.8596845	.9008494	.9328472	.9552861	.9713950
33	.5920271	.6723609	.7447739	.8073094	.8591008	.9002699	.9317084	.9547664
34	.5086486	.5938443	.6729615	.7446881	.8070907	.8586963	.8998001	.9318518
35	.4253067	.5105318	.5944877	.6736313	.7451011	.8069857	.8594069	.8994365
36	.3455544	.4277467	.5103991	.5757579	.6743683	.7484095	.8069903	.8588869
37	.2744481	.3483766	.4301210	.5142341	.5970550	.6751707	.7458101	.8071010
38	.2082184	.2754480	.3510998	.4384350	.5160602	.5983796	.6760370	.7463008
39	.1541050	.2111734	.2783171	.3537308	.4346931	.5178728	.5997381	.6769660
40	.1103670	.1568423	.2140041	.2810796	.3568734	.4368999	.5196746	.6011138
41	.0764373	.1107600	.1594618	.2167157	.2837358	.3587349	.4390598	.5214678
42	.0511661	.0764194	.1150508	.1619678	.2193130	.2862898	.3611198	.4411748
43	.0330883	.0517259	.0803181	.1173996	.1643618	.2210004	.2887465	.3634308
44	.0206641	.0340551	.0543224	.0821336	.1193307	.1656487	.2241819	.2911109
45	.0124586	.0214993	.0353006	.0584545	.0838668	.1213223	.1688307	.2264612
46	.0073495	.0130265	.0223040	.0364573	.0577015	.0855106	.1231106	.1701163
47	.0040703	.0076232	.0135730	.0220764	.0374854	.0603226	.0870837	.1230905
48	.0022046	.0043032	.0079813	.0141085	.0230148	.0394639	.0595370	.0855690
49	.0011517	.0023411	.0045276	.0083284	.0146152	.0245175	.0393914	.0607841
50	.0005801	.0012309	.0024782	.0047453	.0086609	.0150975	.0251831	.0408467
51	.0002817	.0006236	.0013084	.0026089	.0049541	.0089775	.0155546	.0258100
52	.0001319	.0003046	.0006663	.0013836	.0027344	.0051830	.0092770	.0159833
53	.0000595	.0001434	.0003270	.0007076	.0014559	.0028541	.0053411	.0089808
54	.0000259	.0000650	.0001547	.0003489	.0007475	.0015248	.0029670	.0048518
55	.0000108	.0000284	.0000705	.0001658	.0003700	.0007855	.0015898	.0025796
56	.0000044	.0000120	.0000310	.0000759	.0001765	.0003901	.0008213	.0013504
57	.0000017	.0000049	.0000131	.0000335	.0000811	.0001866	.0004089	.0006846
58	.0000006	.0000019	.0000053	.0000142	.0000359	.0000860	.0001968	.0003464
59	.0000002	.0000007	.0000021	.0000058	.0000153	.0000382	.0000906	.0001680
60	.0000001	.0000003	.0000008	.0000023	.0000065	.0000163	.0000403	.0000749
61		.0000001	.0000003	.0000009	.0000025	.0000067	.0000173	.0000323
62			.0000001	.0000003	.0000009	.0000027	.0000071	.0000131
63				.0000001	.0000003	.0000010	.0000028	.0000052
64					.0000001	.0000004	.0000011	.0000020
65						.0000001	.0000004	.0000011
66							.0000001	.0000004
67								.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999963	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
22	.9999898	.9999956	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000
23	.9999789	.9999865	.9999953	.9999982	.9999993	.9999997	.9999999	1.0000000
24	.9999581	.9999702	.9999873	.9999948	.9999979	.9999992	.9999998	.9999999
25	.9999389	.9999263	.9999675	.9999861	.9999943	.9999977	.9999991	.9999997
26	.9999368	.9998874	.9999208	.9999649	.9999850	.9999938	.9999975	.9999991
27	.9998209	.9998151	.9998164	.9999155	.9999695	.9999839	.9999934	.9999974
28	.9994073	.9997834	.9995948	.9998068	.9999105	.9999602	.9999889	.9999969
29	.9988930	.9993438	.9991470	.9995761	.9997968	.9999060	.9999581	.9999890
30	.9948076	.9967924	.9988630	.9991149	.9995593	.9997883	.9999080	.9999865
31	.9896669	.9940599	.9967026	.9982330	.9990864	.9996444	.9997809	.9999785

$$P(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 102

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
32	.9823381	.9894642	.9939300	.9966838	.9981877	.9990616	.9995316	.9997747
33	.9710382	.9820603	.9892894	.9938184	.9965564	.9981493	.9990409	.9995210
34	.9543815	.9707383	.9818634	.9891427	.9937258	.9965007	.9981179	.9990248
35	.9308911	.9540703	.9704944	.9816872	.9890242	.9936507	.9964566	.9980937
36	.8991762	.9306202	.9538314	.9703060	.9815514	.9889339	.9935949	.9964849
37	.8581589	.8990165	.9304365	.9536634	.9701784	.9814589	.9888716	.9935579
38	.8073147	.8581939	.8989549	.9303380	.9535653	.9700929	.9814001	.9888373
39	.7468777	.8076286	.8583318	.8989891	.9303232	.9535357	.9700666	.9813836
40	.6779568	.7475404	.8080403	.8585684	.8991170	.9303903	.9535736	.9700999
41	.6025236	.6790088	.7482869	.8085479	.8589036	.8993368	.9305379	.9536779
42	.5232548	.6039641	.6801214	.7491158	.8091495	.8593348	.8996469	.9307647
43	.4432502	.5230377	.6084355	.6812945	.7500861	.8098437	.8598606	.9000488
44	.3656738	.4452886	.5268187	.6069389	.6825280	.7510178	.8010698	.8604726
45	.2933868	.3678519	.4478930	.5285999	.6084753	.6838288	.7580085	.8115089
46	.2286415	.2955777	.3699685	.4498662	.5303834	.6100459	.6851774	.7538398
47	.1728900	.2307259	.2976069	.3720868	.4532111	.5321710	.6116521	.6865943
4	.1267286	.1747717	.2337171	.2997174	.3740296	.4531301	.5359649	.6139951
49	.0899733	.1283441	.1765572	.2346175	.3016720	.3759799	.4850858	.5387671
50	.0616233	.0912935	.1298679	.1782482	.2364293	.3035511	.3778300	.4569004
51	.0410886	.0628540	.0935328	.1313007	.1798461	.2301544	.3053630	.3797383
52	.0263971	.0418561	.0638154	.0936900	.1326431	.1813581	.2397245	.3071035
53	.0163041	.0269431	.0425681	.0647071	.0947650	.1338954	.1887670	.2413569
54	.0098198	.0167553	.0274467	.0433238	.0655282	.0957576	.1350580	.1840916
55	.0056806	.0100610	.0170956	.0279069	.0438220	.0662780	.0966675	.1361309
56	.0031702	.0058304	.0102807	.0174040	.0283237	.0443619	.0669559	.0974940
57	.0017061	.0032592	.0059658	.0104779	.0176795	.0286930	.0448485	.0675610
58	.0008850	.0017866	.0033390	.0060862	.0106590	.0179213	.0290168	.0452688
59	.0004423	.0009124	.0018014	.0034090	.0061909	.0108020	.0181883	.0289938
60	.0002129	.0004365	.0009364	.0018403	.0034689	.0062793	.0109873	.0182998
61	.0000986	.0002199	.0004688	.0009569	.0018788	.0035182	.0063509	.0110873
62	.0000440	.0001019	.0002259	.0004791	.0009737	.0018988	.0035566	.0064051
63	.0000189	.0000455	.0001047	.0002308	.0004872	.0009865	.0019179	.0035837
64	.0000078	.0000195	.0000467	.0001069	.0002345	.0004931	.0009953	.0019301
65	.0000031	.0000080	.0000200	.0000476	.0001085	.0002370	.0004967	.0009999
66	.0000012	.0000032	.0000082	.0000204	.0000482	.0001094	.0002388	.0004980
67	.0000004	.0000012	.0000032	.0000084	.0000206	.0000485	.0001097	.0002388
68	.0000001	.0000004	.0000012	.0000033	.0000084	.0000206	.0000488	.0001094
69	.0000001	.0000002	.0000004	.0000012	.0000033	.0000084	.0000206	.0000488
70		.0000001	.0000002	.0000004	.0000012	.0000033	.0000084	.0000205
71			.0000001	.0000002	.0000004	.0000012	.0000032	.0000082
72				.0000001	.0000002	.0000004	.0000013	.0000033
73					.0000001	.0000004	.0000004	.0000013
74							.0000001	.0000004
75								.0000001

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	.9999999	1.0000000
26	.9999997	.9999999
27	.9999990	.9999996
28	.9999972	.9999989
29	.9999926	.9999970
30	.9999812	.9999922
31	.9999547	.9999806
32	.9998956	.9999535
33	.9997696	.9998933
34	.9995127	.9997657
35	.9990118	.9995067
36	.9980768	.9990036
37	.9964049	.9980672
38	.9935396	.9963969
39	.9888306	.9935398
40	.9814060	.9888512
41	.9701709	.9814666
42	.9538474	.9702997
43	.9310693	.9540812
44	.9005323	.9314506
45	.8611907	.9012051
46	.8124722	.8619931
47	.7544711	.8135282
48	.6880735	.7557828
49	.6149765	.6896162
50	.5375726	.6166979

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 102

c	.49	.50
51	.4587562	.5394045
52	.3815390	.4605955
53	.3087766	.3833021
54	.2429248	.3103838
55	.1853265	.2442178
56	.1371140	.1864718
57	.0982367	.1380069
58	.0680925	.0988949
59	.0456219	.0685494
60	.0295213	.0459188
61	.0184351	.0297003
62	.0111013	.0185334
63	.0064417	.0111488
64	.0035993	.0064602
65	.0019351	.0036031
66	.0010003	.0019328
67	.0004968	.0009964
68	.0002369	.0004933
69	.0001084	.0002343
70	.0000475	.0001067
71	.0000200	.0000465
72	.0000080	.0000194
73	.0000031	.0000078
74	.0000011	.0000030
75	.0000004	.0000011
76	.0000001	.0000004
77		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 103

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.6448392	.8751795	.9566001	.9850742	.9949239	.9982933	.9994328	.9998137
2	.2753284	.6128018	.8183469	.9210178	.9674060	.9870723	.9950354	.9981454
3	.0849744	.3397148	.6002773	.7848978	.8935422	.9505445	.9781550	.9907466
4	.0208412	.1520836	.3732151	.5939517	.7626608	.8720487	.9353794	.9690866
5	.0038945	.0563534	.1976516	.3950495	.5904484	.7467894	.8548876	.9219994
6	.0006251	.0176706	.0901416	.2309552	.4109849	.5884829	.7349269	.8409876
7	.0000857	.0047763	.0358324	.1192799	.2567093	.4234400	.5874527	.7257822
8	.0000102	.0011298	.0125571	.0546007	.1441925	.2774598	.4336335	.5870355
9	.0000011	.0002368	.0039188	.0225611	.0731292	.1656452	.2947000	.4425564
10	.0000001	.0000444	.0010987	.0083816	.0336457	.0903091	.1843168	.3093673
11		.0000075	.0002789	.0028280	.0141177	.0451075	.1062177	.2007450
12		.0000012	.0000645	.0008716	.0054264	.0207143	.0565183	.1208882
13		.0000002	.0000137	.0002467	.0019194	.0087772	.0278387	.0676504
14			.0000027	.0000644	.0006273	.0034437	.0127079	.0352447
15			.0000005	.0000156	.0001902	.0012551	.0054163	.0171898
16			.0000001	.0000035	.0000536	.0004262	.0021509	.0077835
17				.0000007	.0000141	.0001353	.0007991	.0033135
18				.0000001	.0000035	.0000402	.0002784	.0013844
19					.0000008	.0000112	.0000918	.0004979
20					.0000002	.0000029	.0000281	.0001764
21						.0000007	.0000082	.0000590
22						.0000002	.0000022	.0000187
23							.0000006	.0000056
24							.0000001	.0000016
25								.0000004
26								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999396	.9999806	.9999939	.9999981	.9999994	.9999998	.9999999	1.0000000
2	.9993240	.9997590	.9999159	.9999712	.9999903	.9999968	.9999990	.9999997
3	.9962189	.9988033	.9994243	.9997844	.9999212	.9999719	.9999903	.9999966
4	.9858000	.9938059	.9973789	.9989265	.9995734	.9998351	.9999380	.9999772
5	.9603168	.9807575	.9910587	.9960020	.9982740	.9992787	.9997076	.9998848
6	.9102578	.9520511	.9755920	.9881057	.9944297	.9974852	.9989028	.9995364
7	.8293934	.8999543	.9443691	.9705186	.9850473	.9927155	.9965828	.9984522
8	.7185697	.8197418	.8908941	.9372858	.9656200	.9819590	.9909098	.9955906
9	.5870427	.7127918	.8115829	.8829050	.9307848	.9606445	.9788963	.9890497
10	.4497344	.5873566	.7081119	.8046294	.8758404	.9248343	.9565181	.9758988
11	.3220828	.4563465	.5878996	.7042944	.7986656	.8695772	.9193967	.9523524
12	.2153452	.3332764	.4622845	.5886190	.7011689	.7935257	.8640124	.9144335
13	.1344123	.2304389	.3432560	.4676855	.5894773	.6986088	.7890807	.8590598
14	.0783819	.1468986	.2402762	.3522491	.4726505	.5904476	.6965180	.7852283
15	.0427581	.0886555	.1584545	.2510548	.3604276	.4772557	.5915099	.6948223
16	.0218536	.0502583	.0984518	.1691794	.2609320	.3679246	.4815603	.5926493
17	.0104825	.0267933	.0576635	.1077728	.1791626	.2700351	.3748444	.4856108
18	.0047271	.0134504	.0318641	.0649196	.1166330	.1884820	.2704670	.3812708
19	.0020075	.0063672	.0166293	.0370001	.0719919	.1250533	.1972091	.2863159
20	.0008042	.0028463	.0082056	.0199678	.0421501	.0788592	.1330575	.2054019
21	.0003044	.0012032	.0038328	.0102130	.0234218	.0472753	.0855099	.1406707
22	.0001090	.0004816	.0016967	.0049555	.0123612	.0269539	.0523464	.0919389
23	.0000370	.0001820	.0007127	.0022833	.0062009	.0146236	.0305330	.0573413
24	.0000119	.0000659	.0002843	.0010001	.0029502	.0075546	.0169763	.0341331
25	.0000036	.0000226	.0001079	.0004168	.0013446	.0037186	.0090010	.0193977
26	.0000011	.0000073	.0000390	.0001654	.0005821	.0017454	.0045548	.0105284
27	.0000003	.0000023	.0000134	.0000626	.0002404	.0007817	.0022005	.0054602
28	.0000001	.0000007	.0000044	.0000226	.0000947	.0003343	.0010157	.0027071
29		.0000002	.0000014	.0000078	.0000357	.0001366	.0004482	.0012837
30		.0000001	.0000004	.0000026	.0000128	.0000534	.0001892	.0005826
31			.0000001	.0000008	.0000044	.0000200	.0000764	.0002531
32				.0000002	.0000015	.0000071	.0000296	.0001054
33				.0000001	.0000005	.0000024	.0000110	.0000420
34					.0000001	.0000008	.0000039	.0000161
35						.0000003	.0000013	.0000059
36						.0000001	.0000004	.0000021
37							.0000001	.0000007
38								.0000002
39								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999919	.9999972	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000
5	.9999559	.9999835	.9999940	.9999979	.9999993	.9999998	.9999999	1.0000000
6	.9998100	.9999243	.9999707	.9999890	.9999959	.9999985	.9999995	.9999998
7	.9993218	.9997121	.9998814	.9999525	.9999815	.9999930	.9999974	.9999991
8	.9979363	.9990664	.9995911	.9998264	.9999285	.9999714	.9999889	.9999958
9	.9945310	.9973657	.9984741	.9994480	.9997593	.9998982	.9999582	.9999833
10	.9871689	.9934249	.9967511	.9984495	.9993844	.9996803	.9998615	.9999418
11	.9729945	.9852935	.9922905	.9961030	.9980979	.9991025	.9995901	.9998187
12	.9484495	.9702027	.9834443	.9911434	.9954334	.9977226	.9989046	.9994898
13	.9099068	.9448059	.9675359	.9816374	.9899271	.9947452	.9973348	.9988696
14	.8548468	.9057816	.9414146	.9650019	.9798851	.9888628	.9940526	.9969336
15	.7816863	.8507124	.9020853	.9382664	.9626052	.9781969	.9877499	.9933606
16	.6934638	.7789881	.8478045	.8986066	.9353510	.9603475	.9765797	.9866660
17	.5938541	.6923948	.7764790	.8440721	.8955047	.9326579	.9582387	.9750386
18	.4894446	.5951158	.6915774	.7743135	.8412984	.8926898	.9301764	.9562475
19	.3872714	.4930921	.5964272	.6909824	.7724540	.8388296	.8901422	.9278960
20	.2936305	.3939019	.4965782	.5977831	.6905837	.7708683	.8366447	.8878426
21	.2111139	.3005315	.3983084	.4999238	.5991792	.6903604	.7695296	.8347192
22	.1479176	.2203913	.3070096	.4032296	.5031466	.6006122	.6902948	.7684147
23	.0981456	.1548820	.2279746	.3131281	.4075981	.5062616	.6020794	.6903728
24	.0622441	.1041327	.1614066	.2337996	.3189240	.4125420	.5092815	.6035789

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

$\Delta = 10^3$

n \ p	.17	.18	.19	.20	.21	.22	.23	.24
25	.0377330	.0670430	.1099049	.1676925	.2399976	.3244296	.4168852	.5122175
26	.0214687	.0413154	.0717300	.1154679	.1736995	.2458966	.3296727	.4210485
27	.0101208	.0243729	.0448662	.0762995	.1208288	.1794456	.2515213	.3346778
28	.0044269	.0137665	.0268956	.0483739	.0807482	.1259946	.1849479	.2568937
29	.0032614	.0074471	.0154540	.0294243	.0518293	.0850741	.1309727	.1902215
30	.0015847	.0038595	.0085130	.0171725	.0319483	.0552250	.0892768	.1357700
31	.0007376	.0019170	.0044970	.0096171	.0189124	.0344582	.0585553	.0933564
32	.0003290	.0009129	.0022796	.0051693	.0107524	.0206652	.0369461	.0618156
33	.0001407	.0004169	.0011078	.0026673	.0058718	.0119119	.0224230	.0394051
34	.0000577	.0001827	.0005170	.0013216	.0030805	.0066001	.0130895	.0241788
35	.0000227	.0000768	.0002316	.0006289	.0015529	.0035156	.0073497	.0142793
36	.0000086	.0000310	.0000997	.0002875	.0007523	.0018004	.0039697	.0081164
37	.0000031	.0000120	.0000412	.0001263	.0003504	.0008867	.0020627	.0044402
38	.0000011	.0000045	.0000164	.0000533	.0001569	.0004200	.0010312	.0023381
39	.0000004	.0000016	.0000063	.0000217	.0000676	.0001914	.0004961	.0011851
40	.0000001	.0000006	.0000023	.0000085	.0000280	.0000839	.0002297	.0005783
41		.0000002	.0000008	.0000032	.0000112	.0000354	.0001023	.0002717
42		.0000001	.0000003	.0000011	.0000043	.0000144	.0000439	.0001229
43			.0000001	.0000004	.0000016	.0000056	.0000181	.0000535
44				.0000001	.0000006	.0000021	.0000072	.0000224
45					.0000002	.0000008	.0000028	.0000091
46					.0000001	.0000003	.0000010	.0000035
47						.0000001	.0000004	.0000013
48							.0000001	.0000005
49								.0000002
50								.0000001

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999985	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999935	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
10	.9999763	.9999906	.9999964	.9999987	.9999995	.9999998	.9999999	1.0000000
11	.9999222	.9999677	.9999869	.9999949	.9999981	.9999993	.9999997	.9999999
12	.9997699	.9998994	.9999574	.9999825	.9999930	.9999973	.9999990	.9999996
13	.9993806	.9997157	.9998736	.9999455	.9999773	.9999908	.9999964	.9999986
14	.9984722	.9992638	.9996567	.9998450	.9999329	.9999712	.9999868	.9999953
15	.9965256	.9982431	.9991409	.9995935	.9998138	.9999174	.9999645	.9999852
16	.9926757	.9961152	.9980089	.9990133	.9995270	.9997805	.9999014	.9999571
17	.9856175	.9920031	.9957062	.9977723	.9988825	.9994578	.9997454	.9998843
18	.9735771	.9846093	.9913477	.9953024	.9975355	.9987501	.9993869	.9997091
19	.9544016	.9721975	.9836456	.9907133	.9949068	.9973008	.9986172	.9993150
20	.9258066	.9526882	.9709013	.9827294	.9901034	.9945222	.9970703	.9984854
21	.8857736	.9238988	.9511040	.9696890	.9818633	.9895208	.9941512	.9968456
22	.8330317	.8839197	.9221635	.9496454	.9685607	.9810490	.9889678	.9937958
23	.7675039	.8315637	.8822668	.9205924	.9483088	.9675160	.9802879	.9884464
24	.6905800	.7667802	.8302988	.8808023	.9191774	.9470906	.9665542	.9795809
25	.6051089	.6909075	.7662287	.8292226	.8795148	.9179115	.9459869	.9656743
26	.5150794	.6066684	.6913457	.7658368	.8283222	.8783942	.9167873	.9449943
27	.4250499	.5178758	.6082564	.6918868	.7655933	.8275866	.8774312	.9157990
28	.3394663	.4289054	.5206141	.6098722	.6925240	.7654884	.8270056	.8766175
29	.2620335	.3440572	.4326209	.5233013	.6115156	.6932516	.7655136	.8265705
30	.1959811	.2669584	.3484673	.4362329	.5259434	.6131863	.6940648	.7656614
31	.1403958	.2001395	.2716843	.3527117	.4397283	.5285458	.6148843	.6949591
32	.0973138	.1448551	.2048067	.2762254	.3568037	.4431252	.5311137	.6166097
33	.0650083	.1011506	.1491554	.2092999	.2805947	.3607554	.4464325	.5336515
34	.0418294	.0681127	.1048685	.1533033	.2136232	.2848040	.3645777	.4496581
35	.0259264	.0449140	.0711447	.1084695	.1573050	.2177880	.2886638	.3688805
36	.0154759	.0286603	.0465547	.0740968	.1119558	.1611663	.2210029	.2927839
37	.0088959	.0176742	.0293754	.0488478	.0769681	.1153298	.1648929	.2256759
38	.0049243	.0096845	.0178695	.0310673	.0510902	.0797578	.1185937	.1684900
39	.0026249	.0054191	.0104782	.0190577	.0327321	.0532794	.0826654	.1217428
40	.0013474	.0029213	.0059220	.0112737	.0202348	.0343662	.0554129	.0850909
41	.0006661	.0015178	.0032256	.0064353	.0120675	.0213972	.0359664	.0574888
42	.0003171	.0007591	.0016933	.0035361	.0069416	.0128566	.0225415	.0375298
43	.0001454	.0003659	.0008566	.0018746	.0038509	.0074534	.0136379	.0236648
44	.0000642	.0001699	.0004176	.0009580	.0020601	.0041684	.0079633	.0144087
45	.0000273	.0000760	.0001962	.0004719	.0010626	.0022486	.0044867	.0084690
46	.0000112	.0000328	.0000888	.0002341	.0005285	.0011698	.0024388	.0048043
47	.0000044	.0000136	.0000388	.0001025	.0002534	.0005869	.0012788	.0026928
48	.0000017	.0000054	.0000163	.0000452	.0001171	.0002839	.0006467	.0013888
49	.0000006	.0000021	.0000066	.0000192	.0000522	.0001324	.0003154	.0007075
50	.0000002	.0000008	.0000026	.0000079	.0000224	.0000595	.0001483	.0003476
51	.0000001	.0000003	.0000010	.0000031	.0000093	.0000258	.0000672	.0001647
52		.0000001	.0000004	.0000012	.0000037	.0000108	.0000294	.0000752
53			.0000001	.0000004	.0000014	.0000043	.0000124	.0000331
54				.0000002	.0000005	.0000017	.0000050	.0000141
55				.0000001	.0000002	.0000006	.0000020	.0000057
56					.0000001	.0000008	.0000007	.0000023
57						.0000001	.0000003	.0000009
58							.0000001	.0000003
59								.0000001

n \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 10

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999982	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999940	.9999977	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
16	.9999819	.9999926	.9999971	.9999989	.9999996	.9999999	.9999999	1.0000000
17	.9999491	.9999783	.9999911	.9999964	.9999986	.9999995	.9999998	.9999999
18	.9998664	.9999406	.9999745	.9999894	.9999957	.9999983	.9999994	.9999998
19	.9996718	.9998478	.9999318	.9999704	.9999876	.9999949	.9999980	.9999992
20	.9992489	.9996340	.9998289	.9999226	.9999661	.9999857	.9999941	.9999977
21	.9983557	.9991714	.9995962	.9998098	.9999133	.9999618	.9999837	.9999933
22	.9966286	.9982293	.9991011	.9995589	.9997907	.9999040	.9999574	.9999818
23	.9934579	.9964206	.9981074	.9990328	.9995223	.9997720	.9998948	.9999531
24	.9879582	.9931391	.9962230	.9979908	.9989671	.9994869	.9997537	.9998858
25	.9789287	.9875043	.9928407	.9960369	.9978803	.9989046	.9994531	.9997362
26	.9648750	.9783314	.9870857	.9925639	.9958633	.9977768	.9988457	.9994212
27	.9441092	.9641551	.9777891	.9867032	.9923004	.9957030	.9976808	.9987910
28	.9149406	.9431282	.9635131	.9773016	.9863572	.9920782	.9955567	.9975910
29	.8759454	.9142066	.9426481	.9629474	.9768686	.9860481	.9918707	.9954251
30	.8262733	.8754083	.9135922	.9420650	.9624567	.9764897	.9857760	.9916874
31	.7659254	.8261070	.8750000	.9130926	.9415783	.9620392	.9761643	.9855410
32	.6959311	.7662997	.8260654	.8747148	.9127036	.9411828	.9616934	.9758917
33	.6183627	.6969775	.7667793	.8261428	.8745477	.9124213	.9408767	.9614178
34	.5361635	.6201439	.6980958	.7673597	.8263344	.8744943	.9[illegible]2459	.9406572
35	.4528095	.5386536	.6219538	.6992837	.7680373	.8266357	.8745505	.9121624
36	.3718727	.4558934	.5411255	.6237923	.7005395	.7688084	.8270428	.8747120
37	.2965732	.3753624	.4589159	.5435827	.6256610	.7018615	.7696704	.8275522
38	.2294142	.3002398	.3787572	.4618827	.5460283	.6275602	.7032485	.7706206
39	.1719684	.2330247	.3037910	.3820639	.4647989	.5484654	.6294911	.7046997
40	.1248005	.1753149	.2365136	.3072338	.3852887	.4676696	.5508970	.6314544
41	.0876341	.1277479	.1785516	.2398867	.3105744	.3884376	.4704992	.5533260
42	.0595056	.0909952	.1305943	.1816766	.2431492	.3138186	.3915158	.4732920
43	.0390840	.0614617	.0924743	.1333415	.1846937	.2463062	.3169718	.3945284
44	.0247641	.0405365	.0633559	.0947717	.1359916	.1876063	.2493620	.3200389
45	.0151664	.0258369	.0419752	.0651870	.0969877	.1385463	.1904177	.2523210
46	.0089685	.0159085	.0268008	.0433682	.0669540	.0991225	.1410074	.1931307
47	.0051195	.0094527	.0166328	.0278935	.0447138	.0686561	.1011764	.1433764
48	.0028203	.0054307	.0099405	.0173370	.0288730	.0460102	.0702924	.1031496
49	.0014991	.0030092	.0057364	.0104092	.0180191	.0298172	.0472560	.0718621
50	.0007687	.0016091	.0031955	.0060352	.0108640	.0186771	.0307243	.0484496
51	.0003802	.0008301	.0017178	.0033780	.0063256	.0113031	.0193094	.0315927
52	.0001813	.0004130	.0008910	.0018247	.0035557	.0066064	.0117251	.0199140
53	.0000834	.0001982	.0004457	.0009510	.0019290	.0037277	.0068761	.0121282
54	.0000370	.0000917	.0002150	.0004700	.0010096	.0020299	.0038929	.0071336
55	.0000158	.0000409	.0001000	.0002317	.0005097	.0010664	.0021269	.0040505
56	.0000065	.0000176	.0000448	.0001083	.0002481	.0005403	.0011210	.0022193
57	.0000026	.0000073	.0000194	.0000488	.0001164	.0002639	.0005698	.0011729
58	.0000010	.0000029	.0000081	.0000212	.0000526	.0001243	.0002791	.0005977
59	.0000004	.0000011	.0000032	.0000088	.0000229	.0000564	.0001318	.0002935
60	.0000001	.0000004	.0000012	.0000036	.0000096	.0000246	.0000599	.0001389
61		.0000001	.0000005	.0000014	.0000039	.0000104	.0000262	.0000633
62		.0000001	.0000002	.0000005	.0000015	.0000042	.0000111	.0000278
63			.0000001	.0000002	.0000006	.0000016	.0000045	.0000117
64				.0000001	.0000002	.0000006	.0000017	.0000048
65					.0000001	.0000002	.0000007	.0000019
66						.0000001	.0000002	.0000007
67							.0000001	.0000003
68								.0000001

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999973	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999925	.9999970	.9999988	.9999996	.9999998	.9999999	1.0000000	1.0000000
23	.9999798	.9999916	.9999966	.9999987	.9999995	.9999998	.9999999	1.0000000
24	.9999488	.9999779	.9999908	.9999963	.9999986	.9999995	.9999998	.9999999
25	.9998771	.9999447	.9999760	.9999900	.9999959	.9999984	.9999994	.9999998
26	.9997197	.9998689	.9999409	.9999742	.9999892	.9999956	.9999983	.9999994
27	.9993914	.9997042	.9998613	.9999372	.9999726	.9999865	.9999953	.9999982
28	.9987409	.9993641	.9996901	.9998543	.9999339	.9999711	.9999878	.9999951

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 103

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
29	.9975139	.9986957	.9993395	.9996773	.9998460	.9999309	.9999698	.9999873
30	.9953086	.9974437	.9986556	.9993178	.9996661	.9998425	.9999284	.9999686
31	.9915886	.9952076	.9973830	.9986211	.9992992	.9996566	.9998378	.9999263
32	.9853489	.9919944	.9951222	.9973319	.9985921	.9992837	.9996488	.9998341
33	.9756712	.9851815	.9918849	.9950528	.9972905	.9985690	.9992715	.9996427
34	.9618108	.9755019	.9850566	.9912000	.9949993	.9972591	.9985517	.9992627
35	.9405222	.9610708	.9753831	.9849676	.9911397	.9949617	.9972375	.9985404
36	.9121793	.9404693	.9609965	.9753137	.9849142	.9911036	.9949400	.9972259
37	.8749760	.9122901	.9404963	.9609868	.9758930	.9848958	.9910916	.9949341
38	.8281608	.8753394	.9124920	.9406012	.9610385	.9753195	.9849117	.9911038
39	.7716568	.8288660	.8757994	.9127826	.9407821	.9611580	.9753954	.9849614
40	.7062144	.7727774	.8296654	.8763538	.9131898	.9410378	.9613254	.9755184
41	.6334618	.7077821	.7739808	.8305869	.8769996	.9136814	.9413647	.9615571
42	.5557550	.6354828	.7094325	.7752659	.8315388	.8777357	.9141657	.9417630
43	.4760581	.5581868	.6373504	.7111358	.7766316	.8386096	.8785608	.9147909
44	.3974808	.4787832	.5606239	.6396553	.7129021	.7780774	.8337681	.8794714
45	.3230845	.4003753	.4814891	.5630691	.6417990	.7147319	.7796028	.8350132
46	.2551871	.3259329	.4038180	.4841731	.5655247	.6439830	.7166256	.7812075
47	.1957401	.2579637	.3287680	.4060121	.4868386	.5679935	.6462090	.7185841
48	.1456548	.1988724	.2606541	.3315335	.4087613	.4894889	.5704779	.6484787
49	.1050424	.1478437	.2007060	.2632615	.3342330	.4114690	.4921878	.5729806
50	.0733644	.1068547	.1499443	.2030507	.2657885	.3368694	.4141385	.4947564
51	.0495898	.0747286	.1085869	.1519576	.2053086	.2682378	.3394460	.4167730
52	.0324206	.0506752	.0761639	.1102387	.1538844	.2074812	.2706117	.3419654
53	.0204895	.0332065	.0517045	.0774596	.1118101	.1557255	.2095699	.2789121
54	.0125112	.0210341	.0339489	.0526764	.0786848	.1133010	.1574812	.2115761
55	.0073777	.0128726	.0215466	.0346463	.0535898	.0798367	.1147110	.1591521
56	.0041995	.0076072	.0132111	.0220253	.0358974	.0544433	.0809204	.1160397
57	.0023064	.0043391	.0078212	.0135254	.0234690	.0359007	.0552358	.0819289
58	.0012217	.0023877	.0044685	.0080186	.0138144	.0228763	.0364549	.0559660
59	.0006238	.0012670	.0024626	.0045870	.0081984	.0140769	.0232459	.0369586
60	.0003070	.0006480	.0013084	.0025305	.0046930	.0083598	.0143118	.0235767
61	.0001455	.0003193	.0006699	.0013456	.0025911	.0047883	.0085018	.0145181
62	.0000664	.0001515	.0003303	.0006893	.0013783	.0026437	.0048699	.0086238
63	.0000292	.0000693	.0001568	.0003400	.0007061	.0014062	.0026881	.0049380
64	.0000123	.0000304	.0000716	.0001614	.0003482	.0007201	.0014289	.0027238
65	.0000050	.0000128	.0000315	.0000737	.0001652	.0003548	.0007311	.0014464
66	.0000020	.0000052	.0000133	.0000323	.0000753	.0001681	.0003597	.0007389
67	.0000007	.0000020	.0000054	.0000136	.0000330	.0000765	.0001701	.0003629
68	.0000003	.0000008	.0000021	.0000055	.0000139	.0000335	.0000773	.0001712
69	.0000001	.0000003	.0000008	.0000021	.0000056	.0000140	.0000337	.0000776
70		.0000001	.0000003	.0000008	.0000022	.0000057	.0000141	.0000337
71			.0000001	.0000003	.0000008	.0000022	.0000056	.0000140
72				.0000001	.0000003	.0000008	.0000022	.0000056
73					.0000001	.0000003	.0000008	.0000021
74						.0000001	.0000003	.0000008
75							.0000001	.0000003
76								.0000001

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	.9999999	1.0000000
26	.9999998	.9999999
27	.9999993	.9999998
28	.9999981	.9999993
29	.9999948	.9999980
30	.9999868	.9999946
31	.9999677	.9999864
32	.9999246	.9999670
33	.9998313	.9999234
34	.9996385	.9998295
35	.9992572	.9996362
36	.9985349	.9992558
37	.9972241	.9985354
38	.9949436	.9972321
39	.9911380	.9949683
40	.9850440	.9911955
41	.9756761	.9851589
42	.9618459	.9758832
43	.9488306	.9681904
44	.9154954	.9427659
45	.8804681	.9168778

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 105

c	.49	.50
46	.8363443	.8818491
47	.7828917	.8377606
48	.7206083	.7846555
49	.6507940	.7226295
50	.5785041	.6531570
51	.4973797	.5780518
52	.4193755	.5000000
53	.3444302	.4219488
54	.2751412	.3468430
55	.2135007	.2773006
56	.1607381	.2153445
57	.1178866	.1622394
58	.0828638	.1184509
59	.0566325	.0837222
60	.0374106	.0572341
61	.0238674	.0378096
62	.0146949	.0241158
63	.0087249	.0148411
64	.0049981	.0088045
65	.0027505	.0050317
66	.0014583	.0027679
67	.0007435	.0014646
68	.0003643	.0007448
69	.0001713	.0003638
70	.0000773	.0001705
71	.0000336	.0000766
72	.0000139	.0000330
73	.0000055	.0000136
74	.0000021	.0000054
75	.0000008	.0000020
76	.0000003	.0000007
77	.0000001	.0000002
78		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 104

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.64833908	.87767597	.95790081	.98567137	.99517777	.99839577	.99947257	.99988067
2	.37900335	.61804744	.82249447	.92356000	.96878197	.98774567	.99534328	.99827897
3	.18667880	.34851766	.60681947	.79033486	.89723547	.95273627	.97933677	.99133857
4	.08088866	.15583682	.38002707	.60159957	.76928049	.87675857	.93837377	.97061947
5	.03405799	.05888660	.20899185	.40300567	.59905907	.75430497	.86058807	.92376647
6	.00065787	.01844487	.09333667	.23751897	.41995617	.59799137	.74332607	.84741347
7	.00009117	.00503487	.03746177	.12374697	.26444337	.43334867	.59777617	.73499387
8	.00001107	.00128887	.01328537	.05737987	.14981837	.28621867	.44440097	.59813537
9	.00000127	.00028477	.00417797	.02385077	.07668247	.17835417	.30448847	.45383877
10	.00000017	.00004837	.00118337	.00894867	.03562367	.09482937	.19204367	.31999847
11		.00000687	.00030357	.00305027	.01509437	.04781967	.11168467	.20943477
12		.00000137	.00007097	.00094997	.00586097	.02117797	.05992787	.12787677
13		.00000027	.00001527	.00027177	.00209477	.00749357	.03984687	.07190947
14			.00000307	.00007177	.00069197	.00237637	.01378577	.03783787
15			.00000057	.00001757	.00021807	.00138647	.00598817	.01857907
16			.00000017	.00000407	.00006057	.00047607	.00237957	.00853187
17				.00000087	.00001617	.00016107	.00089387	.00367117
18				.00000027	.00000407	.00004897	.00031497	.00148357
19					.00000097	.00001307	.00010437	.00056407
20					.00000027	.00000347	.00003857	.00020287
21						.00000097	.00000967	.00006847
22						.00000027	.00000277	.00002197
23							.00000077	.00000667
24							.00000027	.00000197
25								.00000057
26								.00000017

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.99994507	.99998867	.99999457	.99999837	.99999957	.99999987	1.00000007	1.00000007
2	.99937247	.99978187	.99992457	.99997447	.99999157	.99999787	.99999917	.99999977
3	.99648037	.99868897	.99947847	.99980687	.99993087	.99997547	.99999157	.99999717
4	.98681057	.99487567	.99760397	.99908947	.99961867	.99985437	.99994567	.99979037
5	.96861757	.98804847	.99175397	.99635297	.99844897	.99935667	.99974887	.99909567
6	.91476317	.95492187	.97789347	.98905337	.99492957	.99773637	.99908357	.99959217
7	.83667187	.90516407	.94780367	.97262917	.98626707	.99338417	.99693087	.99868577
8	.72855437	.82776317	.89677637	.94127387	.96814557	.98346517	.99176077	.99604847
9	.59088037	.72348667	.82030717	.88943077	.93531347	.96388657	.98069837	.99009637
10	.46209817	.59999017	.71949377	.81402257	.88298317	.92988977	.95987487	.97800037
11	.33357187	.46944757	.60111237	.71633467	.80869837	.87731327	.92849507	.95611987
12	.22849167	.34550347	.47610827	.60250007	.71384357	.80417897	.87833017	.92805057
13	.14169637	.23898267	.35634917	.48219767	.60399727	.71189787	.80032057	.86791967
14	.08342467	.15505267	.25160407	.36611017	.48783807	.60559087	.71040247	.78704137
15	.04589437	.09447997	.16745497	.26319817	.37501667	.49310267	.60728187	.70988737
16	.02373507	.05409807	.10505217	.17900447	.27383647	.38323097	.49805277	.60889707
17	.01150597	.02913987	.06215027	.11514167	.18979867	.28373967	.39085187	.50273707
18	.00524517	.01478477	.03470217	.07006207	.12477197	.19990017	.29298437	.39796587
19	.00228537	.00707157	.01830527	.04035047	.07779537	.13393347	.20939797	.30150877
20	.00091387	.00319847	.00913227	.02201177	.04602967	.08553647	.14286807	.21834817
21	.00034947	.00135757	.00431307	.01138367	.02585657	.05169717	.09864207	.15108777
22	.00012667	.00055387	.00193177	.00557647	.01379917	.02979897	.06573807	.10977367
23	.00004357	.00021877	.00082097	.00260407	.00700187	.01633497	.04330507	.07687697
24	.00001437	.00007767	.00033127	.00115417	.00334067	.00854427	.02700987	.05174647
25	.00000447	.00002697	.00013737	.00048677	.00155457	.00425877	.01619797	.03521777
26	.00000137	.00000897	.00004657	.00019567	.00068137	.00202167	.00953337	.02307147
27	.00000047	.00000287	.00001627	.00007497	.00028407	.00092167	.00539337	.01479147
28	.00000017	.00000087	.00000547	.00002747	.00011417	.00040317	.00295337	.00917477
29		.00000027	.00000177	.00000967	.00004337	.00016437	.00155337	.00550337
30		.00000007	.00000057	.00000327	.00001587	.00006807	.00078807	.00317477
31		.00000007	.00000017	.00000107	.00000557	.00002467	.00038937	.00176137
32		.00000007	.00000007	.00000037	.00000187	.00000897	.00018137	.00095137
33		.00000007	.00000007	.00000017	.00000067	.00000317	.00008137	.00049137
34		.00000007	.00000007	.00000007	.00000027	.00000117	.00003937	.00024137
35		.00000007	.00000007	.00000007	.00000017	.00000047	.00001937	.00011137
36		.00000007	.00000007	.00000007	.00000017	.00000047	.00001937	.00011137
37		.00000007	.00000007	.00000007	.00000017	.00000047	.00001937	.00011137
38		.00000007	.00000007	.00000007	.00000017	.00000047	.00001937	.00011137
39		.00000007	.00000007	.00000007	.00000017	.00000047	.00001937	.00011137

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007
2	.99999997	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007
3	.99999917	.99999977	.99999997	1.00000007	1.00000007	1.00000007	1.00000007	1.00000007
4	.99999307	.99999767	.99999927	.99999977	.99999997	1.00000007	1.00000007	1.00000007
5	.99996207	.99997607	.99999507	.99999827	.99999947	.99999987	.99999997	1.00000007
6	.99983487	.99993507	.99997517	.99999077	.99999707	.99999887	.99999967	.99999997
7	.99944087	.99979037	.99993287	.99997647	.99999267	.99999757	.99999917	.99999977
8	.99817197	.99918867	.99964637	.99987167	.99996967	.99999017	.99999687	.99999897
9	.99510997	.99767187	.99892937	.99962377	.99989377	.99997147	.99999037	.99999687
10	.98844087	.99413437	.99713547	.99864927	.99938417	.99979887	.99993187	.99997787
11	.97840487	.98675787	.99313807	.99657237	.99834717	.99938967	.99981257	.99995887
12	.95862817	.97891907	.98518517	.99213537	.99599147	.99860877	.99956857	.99988477
13	.91646917	.94937777	.97055857	.98353867	.99113837	.99547007	.99876597	.99968477
14	.84404107	.91288057	.94637767	.96832907	.98200867	.99015697	.99688787	.99917357
15	.79485567	.86068487	.90950937	.94361357	.96683467	.98034347	.99291997	.99811887
16	.70849387	.79109857	.85768057	.90654017	.94107447	.96487437	.98214897	.99557877
17	.61076777	.70798117	.78991687	.85498807	.90387857	.93974967	.96844897	.98778897
18	.50719487	.61868597	.70770877	.78886677	.85268177	.90146887	.93668847	.96075737
19	.40486107	.51148637	.61450577	.70764867	.78669117	.84306787	.89233017	.92347037
20	.30956607	.41093617	.51584957	.61648307	.70777657	.78581987	.84489497	.87974847
21	.22468057	.31715827	.41668967	.51949577	.61837487	.70807817	.78496617	.82474887
22	.15900107	.23481657	.32433747	.42256847	.52331357	.62803667	.70885187	.76438787
23	.10666067	.16662457	.24242437	.33114847	.43797937	.54701877	.62833697	.70910847
24	.06893477	.11328567	.17398187	.24966537	.33762967	.43316037	.53068507	.64440937

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 104

k	.17	.18	.19	.20	.21	.22	.23	.24
25	.0418999	.0737192	.1196902	.1809139	.2565722	.3436144	.4381363	.5341448
26	.0245657	.0459464	.0789832	.1259129	.1876221	.2631739	.3497316	.4389290
27	.0137780	.0274225	.0499703	.0841332	.1319316	.1940649	.2694961	.3554068
28	.0073949	.0156757	.0303100	.0539590	.0891651	.1377538	.2002598	.2755619
29	.0037996	.0085846	.0176279	.0332142	.0579002	.0940766	.1433870	.2062889
30	.0018697	.0045053	.0098318	.0196228	.0361233	.0617918	.0988668	.1488389
31	.0008816	.0022666	.0052600	.0111882	.0216499	.0390269	.0656813	.1035358
32	.0003984	.0010936	.0027001	.0060588	.0124660	.0236996	.0419162	.0693854
33	.0001737	.0005062	.0013303	.0031677	.0068967	.0138376	.0257633	.0447036
34	.0000718	.0002249	.0006292	.0015907	.0036667	.0077687	.0152368	.0276331
35	.0000287	.0000959	.0002858	.0007675	.0018737	.0041942	.0086699	.0166552
36	.0000110	.0000393	.0001247	.0003558	.0009205	.0021778	.0047471	.0095955
37	.0000040	.0000155	.0000523	.0001586	.0004348	.0010877	.0025013	.0053885
38	.0000014	.0000058	.0000211	.0000679	.0001975	.0005227	.0012688	.0028486
39	.0000005	.0000021	.0000082	.0000280	.0000863	.0002417	.0006191	.0014618
40	.0000002	.0000007	.0000030	.0000111	.0000363	.0001075	.0002909	.0007239
41		.0000002	.0000011	.0000042	.0000147	.0000461	.0001316	.0003458
42		.0000001	.0000004	.0000016	.0000057	.0000190	.0000573	.0001586
43			.0000001	.0000005	.0000021	.0000075	.0000241	.0000708
44				.0000002	.0000008	.0000029	.0000097	.0000299
45				.0000001	.0000003	.0000011	.0000038	.0000123
46					.0000001	.0000004	.0000014	.0000049
47						.0000001	.0000005	.0000019
48							.0000002	.0000007
49							.0000001	.0000002
50								.0000001

k	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999988	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999948	.9999981	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
10	.9999806	.9999924	.9999971	.9999989	.9999996	.9999999	1.0000000	1.0000000
11	.9999358	.9999736	.9999895	.9999959	.9999985	.9999994	.9999998	.9999999
12	.9998080	.9999172	.9999654	.9999860	.9999945	.9999979	.9999992	.9999997
13	.9994779	.9997635	.9998962	.9999559	.9999818	.9999927	.9999978	.9999989
14	.9986993	.9993813	.9997152	.9998731	.9999450	.9999771	.9999907	.9999964
15	.9970182	.9985084	.9992801	.9996639	.9998481	.9999336	.9999718	.9999864
16	.9936382	.9966684	.9983145	.9991757	.9996101	.9998216	.9999210	.9999661
17	.9873820	.9930723	.9963280	.9981198	.9990694	.9995546	.9997938	.9999076
18	.9765872	.9865317	.9929245	.9959940	.9979261	.9989624	.9994980	.9997651
19	.9591955	.9754246	.9857281	.9919983	.9956691	.9977356	.9988558	.9994411
20	.9329554	.9577606	.9743483	.9849649	.9914964	.9953558	.9975498	.9987300
21	.8957819	.9313841	.9564493	.9733403	.9842529	.9910218	.9950561	.9973703
22	.8462172	.8943143	.9299775	.9558276	.9724185	.9835905	.9905747	.9947718
23	.7838859	.8451763	.8930389	.9307278	.9541019	.9715759	.9829787	.9901588
24	.7098110	.7836239	.8443308	.8959435	.9276255	.9532182	.9706117	.9824179
25	.6264767	.7106344	.7835277	.8436649	.8910170	.9266651	.9523638	.9701844
26	.5375868	.6285706	.7115641	.7835848	.8431681	.8902494	.9250391	.9516119
27	.4475573	.5409619	.6306905	.7125928	.7837847	.8428389	.8896316	.9251415
28	.3606622	.4520377	.5448775	.6328363	.7137141	.7841178	.8426376	.8891555
29	.2813917	.3661177	.4563849	.5475412	.6350080	.7149227	.7845761	.8485855
30	.2119698	.2870041	.3711910	.4606120	.5507593	.6378059	.7168159	.7851583
31	.1541171	.2175124	.2924157	.3760970	.4647307	.5539389	.6394395	.7176838
32	.1080843	.1592391	.2228651	.2976415	.3806516	.4687514	.5570836	.6416015
33	.0730802	.1125138	.1641818	.2280390	.3026953	.3854663	.4726836	.5601981
34	.0476226	.0767025	.1168259	.1689824	.2330449	.3075894	.3899527	.4765360
35	.0299022	.0504877	.0802501	.1210229	.1736373	.2378928	.3123351	.3943815
36	.0180885	.0319643	.0531940	.0837212	.1251071	.1781528	.2425918	.3169488
37	.0105409	.0195306	.0340138	.0559175	.0871145	.1290807	.1885350	.2471804
38	.0059178	.0115018	.0209761	.0360459	.0585948	.0904394	.1389464	.1867895
39	.0031997	.0065281	.0124755	.0224204	.0380560	.0612229	.0994652	.1367047
40	.0016668	.0035707	.0071522	.0134152	.0238590	.0400401	.0697998	.0968817
41	.0008364	.0018822	.0039536	.0077865	.0144361	.0258879	.0479940	.0663815
42	.0004044	.0009562	.0021070	.0043665	.0084281	.0159188	.0867038	.0439167
43	.0001884	.0004681	.0010925	.0023990	.0047472	.0096745	.0163980	.0881016
44	.0000845	.0002209	.0005361	.0012147	.0025794	.0051539	.0097884	.0173707
45	.0000366	.0001004	.0002560	.0006080	.0013519	.0028245	.0055644	.0103697
46	.0000152	.0000440	.0001178	.0002935	.0006834	.0014934	.0030737	.0059770
47	.0000061	.0000186	.0000523	.0001366	.0003352	.0007618	.0016384	.0033256
48	.0000024	.0000076	.0000224	.0000613	.0001566	.0003748	.0008426	.0017859
49	.0000009	.0000030	.0000092	.0000265	.0000710	.0001779	.0004181	.0009255
50	.0000003	.0000011	.0000037	.0000111	.0000310	.0000814	.0002001	.0004627
51	.0000001	.0000004	.0000014	.0000044	.0000131	.0000359	.0000924	.0002238
52		.0000001	.0000005	.0000017	.0000053	.0000153	.0000411	.0001038
53			.0000002	.0000006	.0000021	.0000063	.0000176	.0000466
54			.0000001	.0000002	.0000008	.0000025	.0000073	.0000208
55				.0000001	.0000003	.0000009	.0000029	.0000084
56					.0000001	.0000003	.0000011	.0000034
57						.0000001	.0000004	.0000013
58							.0000001	.0000005
59							.0000001	.0000002
60								.0000001

k	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 104

r\p	.33	.34	.35	.36	.37	.38	.39	.40
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999954	.9999982	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
16	.9998859	.9999943	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000
17	.9999599	.9999832	.9999932	.9999973	.9999990	.9999996	.9999999	1.0000000
18	.9998937	.9999534	.9999803	.9999919	.9999968	.9999988	.9999995	.9999998
19	.9997360	.9998794	.9999467	.9999742	.9999906	.9999962	.9999985	.9999995
20	.9993844	.9997067	.9998649	.9999398	.9999741	.9999892	.9999957	.9999983
21	.9986485	.9993287	.9996777	.9998504	.9999329	.9999709	.9999878	.9999951
22	.9971905	.9985496	.9992744	.9996192	.9998361	.9999260	.9999677	.9999864
23	.9945042	.9970356	.9984552	.9992222	.9996216	.9998221	.9999192	.9999646
24	.9897731	.9942548	.9968825	.9982659	.9991725	.9995952	.9998087	.9999127
25	.9819004	.9894201	.9940295	.9967403	.9982824	.9991259	.9995704	.9997961
26	.9695127	.9814501	.9890999	.9938141	.9966096	.9982053	.9990826	.9995478
27	.9509619	.9689750	.9810429	.9888130	.9936244	.9964910	.9981351	.9990431
28	.9245663	.9504093	.9685097	.9806862	.9885595	.9934556	.9963851	.9980728
29	.8880138	.9241080	.9499509	.9681149	.9803794	.9883395	.9933083	.9962923
30	.8426651	.8885997	.9237618	.9495832	.9677891	.9801219	.9881529	.9931825
31	.7858402	.8428695	.8885072	.9235230	.9493033	.9676204	.9799129	.9879996
32	.7190292	.7866342	.8431985	.8885308	.9233873	.9491082	.9673371	.9797514
33	.6439603	.7205470	.7875894	.8436207	.8806654	.9233507	.9489952	.9678074
34	.5632892	.6468073	.7221350	.7885817	.8441725	.8889065	.9234095	.9409615
35	.4803163	.5663603	.6486033	.7237911	.7896072	.8448230	.8892500	.9235603
36	.3985818	.4840319	.5694153	.6509693	.7255137	.7907828	.8455707	.8896981
37	.3214220	.4027430	.4876895	.5724581	.6533660	.7273013	.7980456	.8464161
38	.2515767	.3257815	.4068128	.4912947	.5754934	.6557947	.7291530	.7939938
39	.1909215	.2550778	.3300392	.4107906	.4940536	.5785214	.6502565	.7310681
40	.1403639	.1949362	.2600607	.3341726	.4147075	.4983720	.5815487	.6607585
41	.0998990	.1459307	.1986383	.2641316	.3382187	.4185457	.5013543	.5845773
42	.0687080	.1088991	.1473793	.2026323	.2689965	.3421730	.4223193	.5053056
43	.0458039	.0711971	.1058163	.1507421	.2063223	.2719609	.3460439	.4260339
44	.0294798	.0476511	.0735473	.1076906	.1540114	.2099123	.2757398	.3498347
45	.0183537	.0308348	.0494584	.0758375	.1114161	.1571891	.2134660	.2794083
46	.0110158	.0192842	.0331638	.0512230	.0780665	.1141036	.1602774	.2166068
47	.0063897	.0116523	.0203196	.0334644	.0529427	.0802334	.1167105	.1631781
48	.0035790	.0068005	.0122828	.0211573	.0347341	.0546157	.0853378	.1198403
49	.0019351	.0038325	.0072079	.0129033	.0220350	.0359705	.0562408	.0863771
50	.0010098	.0020851	.0041848	.0076098	.0135114	.0229103	.0371717	.0574144
51	.0005084	.0010949	.0023350	.0043346	.0080048	.0141053	.0237618	.0363385
52	.0002470	.0005548	.0011804	.0023839	.0045006	.0084911	.0146829	.0224855
53	.0001157	.0002712	.0005716	.0012655	.0024309	.0048016	.0087678	.0135425
54	.0000523	.0001279	.0002958	.0006485	.0012698	.0026751	.0050563	.0079314
55	.0000228	.0000582	.0001403	.0003204	.0006946	.0014336	.0028156	.0045037
56	.0000096	.0000255	.0000641	.0001527	.0003449	.0007402	.0015133	.0025518
57	.0000039	.0000108	.0000287	.0000702	.0001651	.0003690	.0007847	.0013914
58	.0000015	.0000044	.0000120	.0000311	.0000762	.0001771	.0003925	.0008878
59	.0000006	.0000017	.0000049	.0000133	.0000339	.0000822	.0001893	.0004152
60	.0000002	.0000007	.0000019	.0000055	.0000145	.0000367	.0000880	.0002008
61	.0000001	.0000002	.0000007	.0000022	.0000060	.0000150	.0000394	.0000935
62		.0000001	.0000003	.0000008	.0000024	.0000065	.0000170	.0000480
63			.0000001	.0000003	.0000009	.0000026	.0000070	.0000181
64				.0000001	.0000003	.0000010	.0000028	.0000075
65					.0000001	.0000004	.0000011	.0000030
66						.0000001	.0000004	.0000012
67							.0000001	.0000004
68								.0000002
69								.0000001

r\p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999981	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999945	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
23	.9999850	.9999939	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000
24	.9999615	.9999836	.9999933	.9999973	.9999990	.9999996	.9999999	1.0000000
25	.9999065	.9999587	.9999824	.9999927	.9999971	.9999989	.9999996	.9999999
26	.9997042	.9999008	.9999550	.9999812	.9999922	.9999969	.9999988	.9999996

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 104

c	.41	.42	.43	.44	.45	.46	.47	.48
27	.9995260	.9997734	.9998955	.9999535	.9999801	.9999918	.9999967	.9999987
28	.9990076	.9995070	.9997637	.9998908	.9999513	.9999791	.9999914	.9999964
29	.9980169	.9989764	.9994903	.9997552	.9998866	.9999494	.9999783	.9999910
30	.9962128	.9979696	.9989497	.9994760	.9997480	.9998838	.9999478	.9999776
31	.9930784	.9961468	.9979302	.9989276	.9994643	.9997481	.9998804	.9999466
32	.9878790	.9929959	.9960944	.9978991	.9989103	.9994582	.9997376	.9998763
33	.9796366	.9877909	.9929349	.9960556	.9978762	.9988977	.9994488	.9997346
34	.9671395	.9795673	.9877347	.9928952	.9960303	.9976616	.9988900	.9994451
35	.9490045	.9671319	.9795487	.9877099	.9938765	.9960185	.9978552	.9988071
36	.9237999	.9491219	.9671027	.9795614	.9877157	.9938783	.9960199	.9978560
37	.8900294	.9241253	.9491114	.9678903	.9796285	.9877514	.9929004	.9960341
38	.8473550	.8900587	.9245338	.9495706	.9674530	.9797848	.9878163	.9929480
39	.7948235	.8483848	.8915772	.9250228	.9498975	.9676698	.9798470	.9878094
40	.7330458	.7963346	.8495030	.8923823	.9255898	.9508900	.9679373	.9800479
41	.6633841	.7350859	.7979258	.8507074	.8938717	.9268307	.9507468	.9680557
42	.5876105	.6658527	.7371883	.7995939	.8519962	.8942431	.9269498	.9512648
43	.5087303	.5906511	.6684597	.7393531	.8013399	.8533676	.8958946	.9277378
44	.4296946	.5121327	.5937083	.6711068	.7415804	.8031682	.8548004	.8944847
45	.3535513	.4333066	.5185171	.5967670	.6737954	.7430708	.8050605	.8563531
46	.2830004	.3571987	.4368746	.5188873	.5998402	.6765075	.7462849	.8070343
47	.2201181	.2865107	.3607815	.4404029	.5232474	.6089487	.6793048	.7486433
48	.1661930	.2233428	.2899431	.3643041	.4438961	.5454010	.6060715	.6881193
49	.1216934	.1690237	.2264837	.2933012	.3677707	.4773588	.5389830	.6092197
50	.0863524	.1240701	.1717718	.2295435	.2965885	.3711852	.4507938	.5323040
51	.0593374	.0882622	.1263706	.1744386	.2325246	.2990044	.3745515	.4542050
52	.0394600	.0608070	.0901058	.1285950	.1770253	.2354292	.3089638	.3778730
53	.0253812	.0405434	.0622220	.0918824	.1307436	.1795331	.2508595	.3060577
54	.0157823	.0261465	.0415838	.0635010	.0935918	.1328163	.1819629	.2410174
55	.0094824	.0163004	.0268796	.0425796	.0648885	.0952313	.1348130	.1843156
56	.0055035	.0098187	.0167953	.0275786	.0435290	.0661888	.0968020	.1367336
57	.0030826	.0057117	.0101389	.0172654	.0282418	.0444303	.0673075	.0983031
58	.0016664	.0032073	.0059102	.0104416	.0177089	.0286675	.0452819	.0684888
59	.0008689	.0017377	.0033251	.0060969	.0107256	.0181846	.0294541	.0460881
60	.0004369	.0009080	.0018047	.0034354	.0062709	.0109896	.0185108	.0300000
61	.0002117	.0004573	.0009444	.0018670	.0035373	.0064318	.0112325	.0186662
62	.0000980	.0002220	.0004763	.0009781	.0019240	.0036308	.0065769	.0114531
63	.0000444	.0001038	.0002314	.0004937	.0010086	.0019784	.0037135	.0067078
64	.0000192	.0000467	.0001083	.0002400	.0005093	.0010357	.0020207	.0037666
65	.0000080	.0000202	.0000487	.0001123	.0002476	.0005228	.0010591	.0020595
66	.0000032	.0000084	.0000211	.0000505	.0001158	.0002540	.0005343	.0010785
67	.0000012	.0000034	.0000088	.0000219	.0000521	.0001187	.0002588	.0005434
68	.0000005	.0000013	.0000035	.0000091	.0000225	.0000533	.0001209	.0002658
69	.0000002	.0000005	.0000013	.0000036	.0000093	.0000230	.0000548	.0001288
70	.0000001	.0000002	.0000005	.0000014	.0000037	.0000095	.0000233	.0000547
71		.0000001	.0000002	.0000005	.0000014	.0000038	.0000096	.0000235
72			.0000001	.0000002	.0000005	.0000014	.0000038	.0000096
73				.0000001	.0000002	.0000005	.0000014	.0000038
74					.0000001	.0000002	.0000005	.0000014
75						.0000001	.0000002	.0000005
76							.0000001	.0000003
77								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	.9999998	.9999999
27	.9999995	.9999998
28	.9999987	.9999995
29	.9999964	.9999986
30	.9999907	.9999963
31	.9999771	.9999905
32	.9999457	.9999767
33	.9998770	.9999458
34	.9997330	.9998764
35	.9994441	.9997329
36	.9988889	.9994457
37	.9978664	.9988953
38	.9960611	.9978837
39	.9930087	.9961008
40	.9880301	.9930819
41	.9802664	.9881772
42	.9686287	.9805810

$$F(c;n;p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 104$$

x	.49	.50
43	.9518481	.9690368
44	.9885956	.9584788
45	.8976315	.9895819
46	.8579649	.9789134
47	.8090834	.8594540
48	.7511878	.8118080
49	.6850030	.7536775
50	.6123962	.6879282
51	.5356607	.6186041
52	.4575975	.5390286
53	.3811534	.4609744
54	.3090988	.3843959
55	.2437045	.3190718
56	.1865918	.2663285
57	.1385778	.1887920
58	.0997307	.1403458
59	.0694855	.1010866
60	.0468893	.0704781
61	.0305036	.0478818
62	.0191894	.0309438
63	.0116508	.0194790
64	.0068218	.0118888
65	.0038489	.0069181
66	.0020915	.0038998
67	.0010938	.0021163
68	.0005501	.0011047
69	.0002659	.0005543
70	.0001234	.0002671
71	.0000550	.0001236
72	.0000235	.0000548
73	.0000096	.0000233
74	.0000038	.0000098
75	.0000014	.0000037
76	.0000005	.0000014
77	.0000002	.0000005
78	.0000001	.0000002
79		.0000001

$$N(s,n,p) = \sum_{r=s}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 105

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.6513069	.8801924	.9591650	.9862444	.9954108	.9984919	.9995094	.9998483
2	.8887178	.9738419	.9926567	.9960637	.9987017	.9996046	.9998383	.9999586
3	.9687994	.9906340	.9978896	.9992721	.9998187	.9999548	.9999871	.9999936
4	.9915485	.9969330	.9994308	.9998896	.9999764	.9999911	.9999977	.9999994
5	.9979268	.9990194	.9998718	.9999689	.9999935	.9999982	.9999995	.9999999
6	.9996918	.9997407	.9999535	.9999384	.9999987	.9999997	.9999999	1.0000000
7	.9999068	.9999284	.9999889	.9999960	.9999997	.9999999	1.0000000	1.0000000
8	.9999116	.9999794	.9999968	.9999989	.9999999	1.0000000	1.0000000	1.0000000
9	.9999913	.9999936	.9999990	.9999997	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999991	.9999984	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11		.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12		.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13		1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14		1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15		1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16			1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17				1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18				1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19					1.0000000	1.0000000	1.0000000	1.0000000
20						1.0000000	1.0000000	1.0000000
21							1.0000000	1.0000000
22								1.0000000

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999500	.9999843	.9999951	.9999985	.9999996	.9999999	1.0000000	1.0000000
2	.9999303	.9999813	.9999382	.9999773	.9999926	.9999974	.9999992	.9999998
3	.9999676	.9999441	.9999825	.9999269	.9999762	.9999924	.9999976	.9999993
4	.9998804	.9999109	.9999701	.9999227	.9999691	.9999838	.9999950	.9999985
5	.9997948	.9998837	.9998974	.9998741	.9998958	.9999463	.9999787	.9999185
6	.9997000	.9998350	.9998840	.9998982	.9999362	.9999638	.9999813	.9999413
7	.9996994	.9998698	.9998545	.9998600	.9999931	.9999934	.9999947	.9999803
8	.9997753	.9999038	.9999093	.9999364	.9999705	.9999837	.9999909	.9999940
9	.9998691	.9999499	.9999780	.9999850	.9999915	.9999978	.9999987	.9999996
10	.9999030	.9999580	.9999867	.9999915	.9999970	.9999993	.9999997	.9999999
11	.9999383	.9999827	.9999951	.9999985	.9999996	.9999999	1.0000000	1.0000000
12	.9999774	.9999913	.9999982	.9999995	.9999999	1.0000000	1.0000000	1.0000000
13	.9999915	.9999970	.9999993	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999970	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999998	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999941	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
5	.9999673	.9999881	.9999958	.9999985	.9999995	.9999998	.9999999	1.0000000
6	.9998564	.9999478	.9999789	.9999922	.9999978	.9999990	.9999997	.9999999
7	.9994779	.9997835	.9999130	.9999660	.9999871	.9999958	.9999987	.9999994
8	.9983814	.9993858	.9996943	.9998733	.9999491	.9999801	.9999945	.9999978
9	.9956305	.9979438	.9990655	.9995893	.9998252	.9999279	.9999811	.9999888
10	.9895577	.9947715	.9974763	.9988241	.9994704	.9997691	.9999085	.9999601
11	.9776169	.9880851	.9936978	.9969877	.9985649	.9993393	.9997057	.9998731
12	.9564951	.9754099	.9866475	.9930287	.9964861	.9982928	.9991900	.9996358
13	.9286068	.9536148	.9733261	.9858379	.9931574	.9959787	.9980108	.9990869
14	.8729581	.9193888	.9509780	.9713709	.9859259	.9913106	.9954716	.9977339
15	.8061191	.8700174	.9165143	.9485566	.9695467	.9826584	.9904894	.9949718
16	.7330744	.8026698	.8674793	.9139548	.9443579	.9678535	.9814008	.9894996
17	.6573980	.7230862	.8087605	.8652961	.9116849	.9443651	.9668903	.9803356
18	.5848051	.6427898	.7433283	.8016103	.8634318	.9096815	.9485678	.9648346
19	.5220749	.5696668	.6728143	.7237722	.8007231	.8618557	.9279241	.9409940
20	.3857287	.4890998	.5943518	.6346681	.7243948	.8000808	.8605453	.9067948
21	.3408745	.3340389	.4356482	.5388811	.6371486	.7251760	.7996888	.8594656
22	.2705277	.2496380	.3419240	.4419539	.5432768	.6396642	.7261017	.7994816
23	.2155139	.1788990	.2579076	.3494324	.4479995	.5475531	.6481834	.7271965
24	.0748518	.1228630	.1869370	.2659619	.3566030	.4538098	.5517261	.6447356

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 105

p	.17	.18	.19	.20	.21	.22	.23	.24
25	.0463960	.0803360	.1299941	.1946642	.2735942	.3634705	.4594087	.5558078
26	.0875185	.0509455	.0867175	.1369131	.2021016	.2809148	.3700647	.4648807
27	.0156119	.0307568	.0554028	.0924891	.1436266	.2092608	.2879503	.3764121
28	.0084000	.0177901	.0340455	.0599930	.0981461	.1501488	.2161841	.2947447
29	.0044108	.0098610	.0200375	.0373632	.0644674	.1036856	.1564678	.2236643
30	.0021978	.0052396	.0113130	.0221411	.0406969	.0688945	.1091065	.1626111
31	.0010496	.0026696	.0061807	.0128871	.0246894	.0440368	.0739677	.1144086
32	.0004806	.0013040	.0031865	.0070707	.0143946	.0270716	.0473684	.0775815
33	.0000111	.0006119	.0015906	.0037459	.0080663	.0160073	.0294785	.0506000
34	.0000090	.0002755	.0007624	.0019061	.0043450	.0091039	.0176574	.0319018
35	.0000360	.0001191	.0003511	.0009381	.0022502	.0049806	.0101801	.0193379
36	.0000140	.0000495	.0001553	.0004381	.0011206	.0026814	.0056494	.0112898
37	.0000052	.0000197	.0000661	.0001980	.0005368	.0013975	.0030179	.0063480
38	.0000019	.0000076	.0000270	.0000861	.0002474	.0006470	.0015520	.0034378
39	.0000006	.0000028	.0000106	.0000360	.0001097	.0003035	.0007685	.0017938
40	.0000008	.0000010	.0000040	.0000145	.0000468	.0001370	.0003664	.0009010
41	.0000001	.0000003	.0000015	.0000056	.0000192	.0000596	.0001683	.0004361
42		.0000001	.0000005	.0000021	.0000076	.0000249	.0000744	.0002034
43			.0000002	.0000007	.0000029	.0000101	.0000317	.0000914
44			.0000001	.0000003	.0000011	.0000039	.0000130	.0000396
45				.0000001	.0000004	.0000015	.0000051	.0000165
46					.0000001	.0000005	.0000020	.0000066
47						.0000002	.0000007	.0000026
48						.0000001	.0000003	.0000010
49							.0000001	.0000003
50								.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999958	.9999984	.9999994	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999842	.9999939	.9999977	.9999992	.9999997	.9999999	1.0000000	1.0000000
11	.9999470	.9999785	.9999915	.9999968	.9999988	.9999996	.9999999	.9999999
12	.9998399	.9999319	.9999719	.9999888	.9999956	.9999984	.9999994	.9999998
13	.9995604	.9998034	.9999149	.9999643	.9999855	.9999945	.9999979	.9999992
14	.9988939	.9994807	.9997641	.9998963	.9999559	.9999818	.9999927	.9999973
15	.9974340	.9987354	.9993976	.9997885	.9998763	.9999466	.9999777	.9999910
16	.9944817	.9971468	.9985758	.9993164	.9996702	.9998858	.9999367	.9999738
17	.9884461	.9940073	.9968643	.9984154	.9992262	.9996347	.9998338	.9999263
18	.9778859	.9880303	.9935514	.9965892	.9982577	.9991401	.9995897	.9998107
19	.9635434	.9783125	.9875610	.9931171	.9963337	.9981036	.9990549	.9995446
20	.9395154	.9623533	.9774156	.9869343	.9927065	.9960698	.9979547	.9989717
21	.9050752	.9382480	.9613804	.9765952	.9863535	.9923816	.9958298	.9978121
22	.8586084	.9039534	.9371248	.9603808	.9758504	.9856197	.9916639	.9956033
23	.7994687	.8570522	.9030103	.9361557	.9592705	.9751803	.9853354	.9916346
24	.7288397	.7996075	.8574015	.9033489	.9353069	.9587355	.9745834	.9848948
25	.6473103	.7296117	.7999443	.8571439	.9016315	.9346310	.9580819	.9740583
26	.5598093	.6499079	.7309943	.8004072	.8570443	.9011741	.9340615	.9575359
27	.4700647	.5637401	.6525264	.7324706	.8010059	.8570550	.9008559	.9336120
28	.3835360	.4751550	.5676090	.6551681	.7340346	.8017311	.8572057	.9006710
29	.3018593	.3884569	.4801159	.5714838	.6578388	.7356813	.8085752	.8574879
30	.2299249	.3075737	.3941933	.4849533	.5751915	.6605909	.7374062	.8035309
31	.1685802	.2385803	.3136850	.3997616	.4896700	.5789183	.6633338	.7392058
32	.1195285	.1743827	.2416438	.3196098	.4051767	.4943074	.5826103	.6659708
33	.0818318	.1246597	.1800263	.2475377	.3253607	.4104519	.4988473	.5862736
34	.0539070	.0860134	.1296180	.1855102	.2532435	.3309525	.4155993	.5033070
35	.0343323	.0572591	.0901256	.1344516	.1908655	.2588018	.3363966	.4206300
36	.0210419	.0367647	.0604991	.0941657	.1391808	.1960748	.2642182	.3417039
37	.0124278	.0227633	.0391905	.0637026	.0981384	.1438024	.2011536	.2694840
38	.0070731	.0135893	.0244963	.0416099	.0666655	.1030840	.1483109	.2061050
39	.0038791	.0078212	.0147695	.0260355	.0440182	.0699848	.1058494	.1587338
40	.0020500	.0043396	.0085890	.0159640	.0279761	.0463950	.0730576	.1195849
41	.0010440	.0023210	.0048172	.0093732	.0171687	.0297136	.0487548	.0760816
42	.0005134	.0011970	.0026056	.0053097	.0101704	.0183795	.0314436	.0510663
43	.0002484	.0005950	.0013591	.0029017	.0058147	.0109777	.0195926	.0331624
44	.0001105	.0002852	.0006836	.0015327	.0032081	.0063300	.0117919	.0208044
45	.0000486	.0001318	.0003316	.0007779	.0017079	.0035233	.0068534	.0126100
46	.0000206	.0000587	.0001551	.0003815	.0008773	.0018907	.0038458	.0073827
47	.0000084	.0000252	.0000700	.0001805	.0004347	.0009813	.0020833	.0041741
48	.0000033	.0000104	.0000304	.0000824	.0002078	.0004909	.0010893	.0022786
49	.0000013	.0000042	.0000128	.0000363	.0000956	.0002369	.0005497	.0012008
50	.0000005	.0000016	.0000052	.0000154	.0000426	.0001103	.0002677	.0006108
51	.0000002	.0000006	.0000020	.0000063	.0000183	.0000496	.0001358	.0003298
52	.0000001	.0000002	.0000008	.0000025	.0000076	.0000215	.0000570	.0001720
53		.0000001	.0000003	.0000009	.0000030	.0000090	.0000249	.0000849
54			.0000001	.0000003	.0000012	.0000036	.0000105	.0000406
55				.0000001	.0000004	.0000014	.0000043	.0000189
56					.0000002	.0000006	.0000017	.0000085
57					.0000001	.0000002	.0000006	.0000038
58						.0000001	.0000002	.0000016
59							.0000001	.0000007
60								.0000003
								.0000001

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

N	.33	.34	.35	.36	.37	.38	.39	.4
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999965	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
16	.9999890	.9999957	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000
17	.9999685	.9999870	.9999948	.9999980	.9999992	.9999997	.9999999	1.0000000
18	.9999156	.9999636	.9999848	.9999939	.9999976	.9999991	.9999997	.9999999
19	.9997880	.9999046	.9999584	.9999825	.9999929	.9999972	.9999989	.9999996
20	.9995004	.9997654	.9998935	.9999533	.9999802	.9999919	.9999968	.9999988
21	.9988913	.9994572	.9997432	.9998826	.9999481	.9999778	.9999909	.9999964
22	.9976770	.9988145	.9994155	.9997216	.9998719	.9999430	.9999755	.9999899
23	.9953934	.9975504	.9987419	.9993759	.9997010	.9998613	.9999381	.9999733
24	.9913344	.9953003	.9974330	.9986742	.9993387	.9996815	.9998518	.9999335
25	.9845037	.9913639	.9950248	.9973255	.9986118	.9993642	.9996633	.9998427
26	.9736033	.9841592	.9908235	.9948616	.9972285	.9985551	.9992728	.9995467
27	.9570837	.9732166	.9838628	.9906134	.9947289	.9971425	.9985046	.9992447
28	.9332768	.9567217	.9728963	.9836118	.9904335	.9946091	.9970676	.9984606
29	.9006121	.9330504	.9564464	.9726405	.9834060	.9902836	.9950082	.9970043
30	.8578942	.9006725	.9329279	.9562546	.9724475	.9832446	.9901635	.9944264
31	.8045924	.8584178	.9008463	.9329047	.9561431	.9723152	.9831265	.9900727
32	.7410768	.8057542	.8590526	.9011280	.9329762	.9561087	.9722416	.9830507
33	.6687230	.7430167	.8070115	.8597935	.9015185	.9331586	.9561485	.9722250
34	.5899107	.6715224	.7450230	.8083602	.8606754	.9019953	.9333879	.9562598
35	.5076974	.5935287	.6743394	.7470941	.8097267	.8615721	.9025722	.9337208
36	.4255542	.5120235	.5971311	.6771851	.7492283	.8113177	.8626056	.9032394
37	.3468840	.4303812	.5162934	.6007221	.6809606	.7514243	.8129204	.8637265
38	.2746257	.3519484	.4351195	.5205135	.6043056	.6829672	.7536811	.8146024
39	.2109377	.2796451	.3569034	.4397772	.5246901	.6070853	.6859061	.7559981
40	.1570479	.2156564	.2843467	.3617580	.4443616	.5288280	.6114643	.6888787
41	.1132524	.1612660	.2202662	.2893464	.3665195	.4488797	.5339351	.6150474
42	.0790546	.1168451	.1653900	.2247720	.2940417	.3711951	.4533380	.5370143
43	.0533881	.0819751	.1203634	.1694226	.2291787	.2986418	.3757913	.4577426
44	.0348664	.0556567	.0848115	.1238076	.1733664	.2334907	.3031523	.3803144
45	.0220119	.0365523	.0578896	.0876525	.1271783	.1772239	.2377123	.3075788
46	.0134294	.0232114	.0382170	.0600842	.0904070	.1304761	.1809976	.2418474
47	.0079156	.0142471	.0244001	.0398515	.0622385	.0931040	.1337016	.1846096
48	.0045065	.0084501	.0150607	.0255751	.0414713	.0643504	.0957428	.1368555
49	.0024776	.0048413	.0089841	.0158675	.0267337	.0430557	.0664180	.0983224
50	.0013151	.0026792	.0051779	.0095155	.0166651	.0278772	.0446084	.0684396
51	.0006739	.0014316	.0028824	.0055137	.0100422	.0174512	.0289913	.0461271
52	.0003352	.0007384	.0015435	.0030661	.0058476	.0105625	.0182235	.0300855
53	.0001590	.0003676	.0008041	.0016681	.0032833	.0061780	.0110743	.0189797
54	.0000732	.0001766	.0004028	.0008705	.0017859	.0034907	.0065036	.0115759
55	.0000325	.0000819	.0001947	.0004384	.0009370	.0019047	.0036895	.0068229
56	.0000139	.0000368	.0000908	.0002151	.0004743	.0010033	.0020212	.0038845
57	.0000058	.0000158	.0000408	.0000999	.0002316	.0005100	.0010689	.0021356
58	.0000023	.0000066	.0000177	.0000452	.0001091	.0002502	.0005455	.0011332
59	.0000009	.0000026	.0000074	.0000197	.0000496	.0001183	.0002685	.0005802
60	.0000003	.0000010	.0000030	.0000083	.0000217	.0000540	.0001275	.0002865
61	.0000001	.0000004	.0000012	.0000033	.0000092	.0000237	.0000583	.0001364
62		.0000001	.0000004	.0000013	.0000037	.0000100	.0000257	.0000626
63			.0000002	.0000005	.0000015	.0000041	.0000109	.0000277
64			.0000001	.0000002	.0000005	.0000016	.0000045	.0000118
65				.0000001	.0000002	.0000006	.0000018	.0000048
66					.0000001	.0000002	.0000007	.0000019
67						.0000001	.0000002	.0000007
68							.0000001	.0000003
69								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999986	.9999998	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999959	.9999994	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000
23	.9999889	.9999983	.9999983	.9999993	.9999998	.9999999	1.0000000	1.0000000
24	.9999718	.9999949	.9999951	.9999981	.9999995	.9999999	.9999999	1.0000000
25	.9999301	.9999858	.9999871	.9999948	.9999986	.9999998	.9999997	.9999999
26	.9998344	.9999611	.9999673	.9999863	.9999944	.9999978	.9999992	.9999997

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 105$$

r	.41	.42	.43	.44	.45	.46	.47	.48
27	.9996319	.9998269	.9999215	.9999657	.9999855	.9999941	.9999977	.9999991
28	.9998202	.9999189	.9999604	.9999784	.9999643	.9999849	.9999939	.9999976
29	.9999231	.9999593	.9999070	.9998140	.9999157	.9999631	.9999844	.9999937
30	.9969525	.9983924	.9991822	.9995988	.9998104	.9999136	.9999621	.9999840
31	.9943635	.9969183	.9983686	.9991689	.9995919	.9998070	.9999121	.9999615
32	.9900108	.9945193	.9968838	.9983511	.9991596	.9995872	.9998047	.9999111
33	.9830160	.9899770	.9942935	.9966667	.9983416	.9991548	.9995046	.9998036
34	.9722633	.9830021	.9899708	.9942858	.9966610	.9983382	.9991526	.9995841
35	.9564399	.9735548	.9830663	.9899914	.9942957	.9966663	.9983416	.9991549
36	.9341338	.9566861	.9724975	.9831467	.9900380	.9943288	.9968825	.9983514
37	.9039933	.9346239	.9569960	.9726896	.9832644	.9901098	.9943665	.9969090
38	.8649335	.9048307	.9351882	.9573673	.9729293	.9834170	.9902058	.9944262
39	.8163614	.8662836	.9057485	.9358238	.9577975	.9732148	.9836031	.9903251
40	.7583746	.8181957	.8675949	.9067441	.9365863	.9582845	.9735443	.9838215
41	.6918864	.7608104	.8201036	.8690144	.9078148	.9378990	.9588260	.9739160
42	.6196367	.6949307	.7633052	.8220839	.8705701	.9089503	.9381338	.9594201
43	.5410719	.6223358	.6980130	.7658590	.8241352	.8721704	.9101724	.9390303
44	.4620993	.5451104	.6258480	.7011351	.7684722	.8262567	.8738433	.9114549
45	.3847701	.4664136	.5491367	.6294765	.7042987	.7711449	.8284476	.8755875
46	.3119853	.3891640	.4706908	.5531544	.6331244	.7075054	.7739776	.8307073
47	.2458998	.3161997	.3935015	.4749361	.5571677	.6367949	.7107572	.7766710
48	.1883023	.2498733	.3204036	.3977876	.4791542	.5611809	.6404911	.7140560
49	.1395302	.1918377	.2537712	.3245425	.4020271	.4833499	.5651982	.6442163
50	.1008422	.1429506	.1952979	.2575969	.3286205	.4062248	.4875270	.5692235
51	.0704135	.1033015	.1458931	.1986847	.2613534	.3326417	.4103851	.4916925
52	.0476097	.0723382	.1056996	.1487662	.2020000	.2650436	.3366100	.4145124
53	.0311535	.0490541	.0742120	.1080359	.1515704	.2052453	.2686705	.3405890
54	.0197179	.0321932	.0504582	.0760336	.1103098	.1543060	.2084223	.2722367
55	.0120654	.0204358	.0338024	.0518202	.0778014	.1125204	.1569735	.2115324
56	.0071343	.0125410	.0221316	.0341790	.0531381	.0795140	.1146672	.1595730
57	.0040747	.0074366	.0139011	.0218032	.0351210	.0544099	.0811699	.1167492
58	.0022470	.0042891	.0077285	.0134440	.0224467	.0360264	.0556340	.0827676
59	.0011959	.0023549	.0044367	.0080086	.0138681	.0230663	.0368932	.0568082
60	.0006140	.0012564	.0024585	.0046064	.0082755	.0142717	.0236842	.0377194
61	.0003040	.0006466	.0013144	.0025571	.0047674	.0085381	.0146533	.0242104
62	.0001451	.0003208	.0006776	.0013692	.0026500	.0049187	.0087650	.0150114
63	.0000667	.0001534	.0003367	.0007068	.0014206	.0027366	.0050523	.0089852
64	.0000296	.0000707	.0001612	.0003516	.0007340	.0014680	.0028164	.0051885
65	.0000126	.0000313	.0000743	.0001685	.0003653	.0007587	.0015111	.0028885
66	.0000052	.0000134	.0000330	.0000777	.0001751	.0003777	.0007809	.0015494
67	.0000020	.0000055	.0000141	.0000345	.0000807	.0001809	.0003885	.0008002
68	.0000008	.0000022	.0000058	.0000147	.0000358	.0000834	.0001859	.0003977
69	.0000003	.0000008	.0000023	.0000060	.0000153	.0000369	.0000856	.0001901
70	.0000001	.0000003	.0000009	.0000024	.0000062	.0000157	.0000378	.0000873
71		.0000001	.0000003	.0000009	.0000025	.0000064	.0000161	.0000385
72			.0000001	.0000003	.0000009	.0000025	.0000065	.0000163
73				.0000001	.0000003	.0000009	.0000026	.0000066
74					.0000001	.0000003	.0000010	.0000026
75						.0000001	.0000003	.0000010
76							.0000001	.0000003
77								.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	.9999999	1.0000000
27	.9999997	.9999999
28	.9999991	.9999997
29	.9999978	.9999991
30	.9999938	.9999978
31	.9999838	.9999936
32	.9999611	.9999836
33	.9999187	.9999610
34	.9998036	.9999188
35	.9998857	.9998046
36	.9991609	.9995893
37	.9983674	.9991705
38	.9969487	.9983898
39	.9945013	.9969328
40	.9904667	.9945910
41	.9840706	.9906895
42	.9743881	.9843491

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 105

c	.49	.50
43	.9600646	.9747789
44	.9399864	.9607575
45	.9128039	.9410000
46	.8774015	.9142177
47	.8330354	.8792841
48	.7795257	.8354314
49	.7174039	.7824428
50	.6479735	.7208029
51	.5738611	.6517662
52	.4956485	.5773148
53	.4186110	.5000000
54	.3444025	.4226852
55	.2757448	.3482338
56	.2145770	.2791971
57	.1621047	.2175572
58	.1187658	.1645686
59	.0843056	.1207159
60	.0579309	.0857823
61	.0385032	.0590000
62	.0247333	.0392425
63	.0153444	.0252211
64	.0091974	.0156509
65	.0053053	.0093705
66	.0029596	.0054090
67	.0015827	.0030080
68	.0008165	.0016105
69	.0004051	.0008295
70	.0001932	.0004107
71	.0000885	.0001953
72	.0000389	.0000892
73	.0000164	.0000390
74	.0000066	.0000164
75	.0000026	.0000066
76	.0000009	.0000025
77	.0000003	.0000009
78	.0000001	.0000003
79		.0000001

$$F(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 106

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.6553878	.8885900	.9603901	.9867946	.9956479	.9985824	.9995438	.9998550
2	.3864091	.6283795	.8305349	.9284709	.9713675	.9889910	.9959037	.9985180
3	.0907386	.3560862	.6196876	.8008877	.9042772	.9568496	.9815194	.9944145
4	.0228210	.1634433	.3936245	.6166009	.7818667	.8857283	.9439862	.9740155
5	.0043995	.0622074	.2135898	.4188765	.6159683	.7688321	.8718405	.9328178
6	.0007272	.0200603	.1000008	.2508108	.4378458	.6166102	.7595407	.8597367
7	.0001027	.0055812	.0408643	.1329314	.2800355	.4530693	.6180141	.7587629
8	.0000186	.0013598	.0147362	.0627651	.1613811	.3039366	.4658350	.6198768
9	.0000014	.0008937	.0047362	.0265855	.0840997	.1861376	.3240876	.4768786
10	.0000001	.0000568	.0013685	.0101708	.0398097	.1042631	.2079123	.3414798
11		.0000099	.0003588	.0035365	.0171985	.0536706	.1230918	.2378739
12		.0000016	.0000855	.0011240	.0068128	.0253318	.0673740	.1406038
13		.0000002	.0000187	.0003282	.0024850	.0110622	.0341729	.0809396
14			.0000038	.0000885	.0008381	.0044763	.0161032	.0434250
15			.0000007	.0000221	.0002623	.0016838	.0070683	.0217551
16			.0000001	.0000051	.0000764	.0005905	.0028974	.0101978
17				.0000011	.0000208	.0001936	.0011119	.0044820
18				.0000002	.0000053	.0000595	.0004004	.0018506
19					.0000013	.0000172	.0001356	.0007193
20					.0000003	.0000047	.0000433	.0002636
21					.0000001	.0000012	.0000130	.0000913
22						.0000003	.0000037	.0000299
23						.0000001	.0000010	.0000093
24							.0000003	.0000027
25							.0000001	.0000008
26								.0000002
27								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999845	.9999859	.9999957	.9999987	.9999996	.9999999	1.0000000	1.0000000
2	.9994770	.9998196	.9999391	.9999799	.9999935	.9999979	.9999993	.9999998
3	.9969982	.9988498	.9995720	.9998449	.9999452	.9999836	.9999976	.9999979
4	.9884992	.9951143	.9979990	.9992072	.9996954	.9998862	.9999567	.9999854
5	.9668547	.9844264	.9929928	.9969679	.9987340	.9994886	.9997927	.9999238
6	.9231853	.9602086	.9803705	.9907386	.9958035	.9981680	.9992275	.9996847
7	.8504888	.9148894	.9541095	.9764395	.9884322	.9945492	.9975277	.9989181
8	.7477635	.8429668	.9077417	.9485840	.9726973	.9861333	.9932485	.9968319
9	.6220452	.7440733	.8368225	.9015780	.9436011	.9691792	.9838045	.9919145
10	.4866563	.6244243	.7413781	.8317811	.8962595	.9391262	.9659023	.9817156
11	.3567722	.4954694	.6269521	.7394589	.8276413	.8916705	.9351210	.9628718
12	.2446644	.3704221	.5035263	.6295878	.7381581	.8242492	.8877145	.9315470
13	.1568877	.2604268	.3827585	.5109770	.6323039	.7373593	.8214849	.8843113
14	.0941159	.1720545	.2748295	.3940251	.5179327	.6350811	.7369747	.8198540
15	.0528757	.1068274	.1862169	.2880849	.4044066	.5244780	.6379060	.7369366
16	.0278597	.0623763	.1190438	.1994803	.3003627	.4140463	.5306787	.6407689
17	.0137881	.0337857	.0718246	.1307615	.2119404	.3118006	.4230573	.5365673
18	.0064204	.0177618	.0409277	.0811516	.1419917	.2236820	.3225112	.4315303
19	.0028175	.0086838	.0220462	.0477025	.0903119	.1527544	.2347799	.3385676
20	.0011671	.0040121	.0112376	.0265768	.0545455	.0992766	.1630738	.2452599
21	.0004570	.0017541	.0054265	.0140454	.0312974	.0614054	.1080288	.1729757
22	.0001695	.0007267	.0024852	.0070473	.0179711	.0361603	.0682484	.1165596
23	.0000596	.0002856	.0010807	.0033603	.0098580	.0202812	.0411254	.0780413
24	.0000199	.0001066	.0004467	.0015241	.0053758	.0108404	.0236446	.0461590
25	.0000063	.0000379	.0001757	.0006582	.0028596	.0055254	.0129761	.0271333
26	.0000019	.0000128	.0000658	.0002709	.0014744	.0026874	.0068010	.0152468
27	.0000005	.0000041	.0000235	.0001063	.0007359	.0012481	.0034061	.0081933
28	.0000003	.0000013	.0000080	.0000398	.0003539	.0005539	.0016309	.0042125
29		.0000004	.0000026	.0000143	.0001633	.0002350	.0007471	.0020731
30		.0000001	.0000008	.0000049	.0000737	.0000954	.0003276	.0009771
31			.0000002	.0000016	.0000325	.0000371	.0001376	.0004412
32			.0000001	.0000005	.0000139	.0000138	.0000554	.0001910
33				.0000002	.0000059	.0000049	.0000214	.0000793
34					.0000024	.0000017	.0000079	.0000316
35					.0000009	.0000006	.0000028	.0000121
36					.0000003	.0000002	.0000010	.0000044
37					.0000001	.0000001	.0000003	.0000016
38							.0000001	.0000005
39								.0000002
40								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999949	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
5	.9999718	.9999899	.9999964	.9999988	.9999996	.9999999	1.0000000	1.0000000
6	.9998752	.9999521	.9999821	.9999935	.9999977	.9999992	.9999997	.9999999
7	.9995488	.9998124	.9999255	.9999713	.9999892	.9999961	.9999986	.9999995
8	.9985678	.9993746	.9997357	.9998918	.9999571	.9999835	.9999938	.9999977
9	.9960981	.9981851	.9991850	.9996461	.9998512	.9999394	.9999761	.9999908
10	.9905900	.9953421	.9977788	.9989772	.9995449	.9998041	.9999183	.9999670
11	.9796469	.9892885	.9945775	.9973550	.9987550	.9994338	.9997510	.9998940
12	.9620858	.9776914	.9880850	.9936157	.9969286	.9985225	.9993148	.9996928
13	.9385378	.9578379	.9758572	.9868109	.9930665	.9964876	.9982834	.9991897
14	.9081954	.9295495	.9582195	.9741483	.9856545	.9923375	.9960557	.9980411
15	.8717487	.8949043	.9330618	.9531195	.9725663	.9845619	.9916383	.9958316
16	.8297980	.8561039	.8957960	.9208758	.9513276	.9711106	.9835371	.9909648
17	.7833630	.8076991	.8450733	.8750878	.9189662	.9495325	.9697794	.9825830
18	.7332459	.7505938	.7804848	.8143475	.8735649	.9173119	.9480835	.9685700
19	.6805391	.6876890	.6995260	.7393399	.8138919	.8783774	.9158930	.9466901
20	.6261076	.6211444	.6129458	.6524889	.7404237	.8136775	.8714394	.9146885
21	.5708997	.5511367	.5243970	.5580385	.6554703	.7416573	.8136798	.8707384
22	.5158666	.4808300	.4597305	.4613393	.5689894	.6584691	.7430252	.8130778

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 106

x	.17	.18	.19	.20	.21	.22	.23	.24
23	.1248662	.1916321	.2739356	.3679367	.4680076	.5670153	.6614846	.7445145
24	.0617641	.1329495	.2004367	.2826560	.3757963	.4744328	.5785313	.6646166
25	.0512334	.0884008	.1408133	.2089237	.2910261	.3833450	.4806417	.5771505
26	.0307227	.0563258	.0949401	.1484633	.2171151	.2990770	.3906138	.4866576
27	.0176350	.0343908	.0614174	.1013739	.1559064	.2250310	.3068366	.3976302
28	.0096924	.0201241	.0381185	.0664929	.1076970	.1631501	.2326903	.3143297
29	.0051025	.0112882	.0226990	.0418893	.0715399	.1139061	.1702025	.2401108
30	.0025740	.0060714	.0129707	.0253455	.0456887	.0765485	.1199996	.1770719
31	.0012448	.0031322	.0071137	.0147299	.0280509	.0495042	.0815107	.1259772
32	.0005773	.0015504	.0037455	.0082236	.0165765	.0308036	.0533852	.0864200
33	.0002569	.0007366	.0018938	.0044113	.0093952	.0184414	.0335931	.0571425
34	.0001097	.0003361	.0009198	.0022741	.0051265	.0106226	.0203763	.0364101
35	.0000450	.0001473	.0004392	.0011269	.0026901	.0058877	.0118999	.0223531
36	.0000177	.0000620	.0001925	.0005369	.0013579	.0031404	.0066915	.0132214
37	.0000067	.0000251	.0000830	.0002460	.0006594	.0016122	.0036231	.0075341
38	.0000024	.0000098	.0000344	.0001085	.0003061	.0007967	.0018898	.0041362
39	.0000009	.0000037	.0000137	.0000460	.0001386	.0003790	.0009487	.0021879
40	.0000003	.0000013	.0000053	.0000184	.0000600	.0001737	.0004589	.0011151
41	.0000001	.0000005	.0000019	.0000074	.0000250	.0000766	.0002138	.0005477
42		.0000002	.0000007	.0000028	.0000100	.0000326	.0000960	.0002592
43			.0000002	.0000010	.0000039	.0000133	.0000415	.0001183
44			.0000001	.0000004	.0000014	.0000053	.0000173	.0000520
45				.0000001	.0000005	.0000020	.0000070	.0000220
46					.0000002	.0000007	.0000027	.0000090
47					.0000001	.0000003	.0000010	.0000035
48						.0000001	.0000004	.0000013
49							.0000001	.0000005
50								.0000002
51								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999966	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999871	.9999951	.9999982	.9999993	.9999999	.9999999	1.0000000	1.0000000
11	.9999563	.9999825	.9999932	.9999974	.9999991	.9999997	.9999999	1.0000000
12	.9998667	.9999440	.9999772	.9999910	.9999966	.9999987	.9999995	.9999998
13	.9996303	.9998368	.9999303	.9999712	.9999884	.9999955	.9999983	.9999994
14	.9990606	.9995646	.9998048	.9999153	.9999644	.9999855	.9999943	.9999978
15	.9977990	.9989292	.9994966	.9997712	.9998994	.9999572	.9999824	.9999930
16	.9952198	.9975598	.9987973	.9994272	.9997363	.9998826	.9999494	.9999789
17	.9903300	.9948235	.9973263	.9986666	.9993576	.9997008	.9998653	.9999413
18	.9817010	.9897338	.9944459	.9971005	.9985386	.9992884	.9996652	.9998477
19	.9674790	.9808916	.9891784	.9940893	.9968845	.9984146	.9992207	.9996899
20	.9455224	.9665027	.9801549	.9886654	.9937555	.9966799	.9982957	.9991551
21	.9136853	.9445109	.9656369	.9794901	.9881959	.9934461	.9964881	.9981832
22	.8702251	.9128677	.9436468	.9648776	.9788963	.9877703	.9931621	.9963101
23	.8142536	.8699122	.9122227	.9429219	.9642207	.9783721	.9873889	.9929046
24	.7461144	.8147919	.8697748	.9117385	.9423285	.9636619	.9779159	.9870515
25	.6675651	.7478158	.8154794	.8697997	.9114045	.9418594	.9631974	.9775260
26	.5816848	.6706303	.7496108	.8163044	.8699751	.9112111	.9415078	.9688831
27	.4925008	.5861435	.6737127	.7514928	.8172570	.8702907	.9111496	.9412676
28	.4044182	.4981693	.5905367	.6768128	.7534562	.8183283	.8707373	.9112181
29	.3215785	.4109992	.5037391	.5948722	.6799313	.7554962	.8195106	.8713065
30	.2473085	.3286033	.4173924	.5091643	.5991574	.6830690	.7576086	.8207972
31	.1837663	.2542985	.3354223	.4236150	.5144776	.6033991	.6862268	.7597898
32	.1318394	.1902941	.2610949	.3420519	.4296824	.5196907	.6076034	.6894058
33	.0912715	.1375877	.1966630	.2677106	.3485073	.4356085	.5248136	.6117760
34	.0609481	.0960618	.1432239	.2028809	.2741575	.3548023	.4414062	.5298566
35	.0392460	.0647353	.1007869	.1487502	.2089551	.2804470	.3609494	.4470869
36	.0243645	.0420933	.0684983	.1054457	.1541694	.2148929	.2865894	.3669603
37	.0145814	.0264037	.0449453	.0722322	.1100364	.1594841	.2207011	.2935944
38	.0084138	.0159745	.0284643	.0477959	.0759389	.1144581	.1646974	.2263065
39	.0046776	.0093209	.0173957	.0305404	.0506397	.0795968	.1190101	.1698122
40	.0025073	.0052448	.0102577	.0188401	.0326266	.0534719	.0838809	.1233924
41	.0013955	.0028460	.0058356	.0112186	.0203029	.0347180	.0563882	.0868026
42	.0006453	.0014893	.0032027	.0064475	.0121999	.0217797	.0360099	.0590048
43	.0003099	.0007515	.0016957	.0035759	.0070779	.0131982	.0238664	.0388981
44	.0001435	.0003657	.0008660	.0019139	.0039640	.0077243	.0142101	.0247391
45	.0000640	.0001716	.0004267	.0009884	.0021429	.0043653	.0083043	.0158325
46	.0000276	.0000777	.0002028	.0004925	.0011181	.0023819	.0047782	.0090554
47	.0000114	.0000339	.0000930	.0002368	.0005631	.0012547	.0026997	.0050008
48	.0000046	.0000143	.0000411	.0001098	.0002736	.0006380	.0013975	.0026858
49	.0000018	.0000058	.0000175	.0000492	.0001283	.0003131	.0007170	.0013457
50	.0000007	.0000023	.0000072	.0000212	.0000581	.0001483	.0003551	.0006796
51	.0000002	.0000009	.0000029	.0000088	.0000253	.0000678	.0001697	.0003294
52	.0000001	.0000003	.0000011	.0000036	.0000107	.0000299	.0000783	.0001525
53		.0000001	.0000004	.0000014	.0000043	.0000127	.0000349	.0000696
54			.0000001	.0000005	.0000017	.0000052	.0000150	.0000308
55				.0000002	.0000006	.0000021	.0000068	.0000134
56				.0000001	.0000002	.0000008	.0000025	.0000073
57					.0000001	.0000003	.0000010	.0000029
58						.0000001	.0000004	.0000011
59							.0000001	.0000004
60								.0000002
61								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 106$$

k	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999973	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999915	.9999967	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000
17	.9999753	.9999899	.9999960	.9999985	.9999994	.9999998	.9999999	1.0000000
18	.9999330	.9999715	.9999883	.9999953	.9999982	.9999993	.9999998	.9999999
19	.9998301	.9999246	.9999677	.9999866	.9999946	.9999979	.9999992	.9999997
20	.9995053	.9998127	.9999162	.9999638	.9999849	.9999939	.9999976	.9999991
21	.9990923	.9995620	.9997958	.9999080	.9999600	.9999832	.9999932	.9999973
22	.9980777	.9990330	.9995302	.9997796	.9999001	.9999563	.9999815	.9999925
23	.9961470	.9979802	.9989777	.9995004	.9997642	.9998925	.9999527	.9999799
24	.9926738	.9959993	.9978911	.9989268	.9994727	.9997499	.9998855	.9999494
25	.9867578	.9924703	.9956877	.9978110	.9988007	.9994476	.9997368	.9998790
26	.9772004	.9865073	.9928940	.9957524	.9977403	.9988398	.9994251	.9997251
27	.9625351	.9769373	.9882991	.9921449	.9956537	.9976793	.9988042	.9994055
28	.9411331	.9623299	.9767346	.9861324	.9920228	.9955718	.9976281	.9987742
29	.9113914	.9410987	.9622039	.9765902	.9860062	.9919273	.9955064	.9975868
30	.8719911	.9116810	.9411594	.9621536	.9765022	.9859194	.9910580	.9954576
31	.8221880	.8727844	.9120749	.9413106	.9621757	.9764684	.9856709	.9918142
32	.7620370	.8236598	.8736804	.9125676	.9415479	.9622671	.9764867	.9858595
33	.6926066	.7643474	.8252259	.8746739	.9131541	.9418672	.9624248	.9765553
34	.6159221	.6958305	.7667190	.8268762	.8757599	.9130297	.9422646	.9626459
35	.5348278	.6200465	.6990787	.7691499	.8286070	.8759342	.9145903	.9427364
36	.4526615	.5397353	.6241540	.7023523	.7716306	.8304151	.8781926	.9154319
37	.3728457	.4581396	.5445866	.6282488	.7056527	.7741038	.8322976	.8795317
38	.2984712	.3786155	.4635304	.5493866	.6323350	.7089809	.7767845	.8343520
39	.2319547	.3042282	.3842791	.4688423	.5541470	.6364164	.7123384	.7794398
40	.1743316	.2371435	.3098236	.3898449	.4740831	.5588703	.6404969	.7157265
41	.1277050	.1797587	.2427654	.3154146	.3953211	.4792604	.5635617	.6445799
42	.0903399	.1319482	.1845966	.2480188	.3208585	.4007153	.4843809	.5682275
43	.0618500	.0938309	.1361227	.1893484	.2531781	.3262121	.4060345	.4894513
44	.0409786	.0646050	.0972741	.1402290	.1940170	.2582481	.3314815	.4112856
45	.0262539	.0430478	.0673227	.1006683	.1442679	.1986053	.2632339	.3366730
46	.0162616	.0277473	.0451024	.0700008	.1040124	.1482403	.2031163	.2681399
47	.0097353	.0172950	.0292360	.0471391	.0726608	.1073054	.1521470	.2075527
48	.0056315	.0104211	.0183295	.0307167	.0491551	.0752768	.1105467	.1559891
49	.0031472	.0060685	.0111109	.0193622	.0321866	.0511477	.0778547	.1137356
50	.0016988	.0034145	.0065100	.0118022	.0203905	.0336426	.0531141	.0803927
51	.0008855	.0018558	.0036858	.0069543	.0124927	.0214116	.0350820	.0550521
52	.0004456	.0009741	.0020160	.0039600	.0073996	.0131802	.0224229	.0365021
53	.0002165	.0004937	.0010650	.0021706	.0042358	.0078441	.0138625	.0234220
54	.0001015	.0002416	.0005433	.0011576	.0023427	.0045119	.0082862	.0145374
55	.0000459	.0001141	.0002675	.0005940	.0012514	.0025074	.0047870	.0087240
56	.0000201	.0000520	.0001272	.0002942	.0006455	.0013458	.0026719	.0050598
57	.0000084	.0000229	.0000583	.0001406	.0003214	.0006975	.0014403	.0028352
58	.0000034	.0000097	.0000258	.0000649	.0001544	.0003489	.0007496	.0015342
59	.0000013	.0000040	.0000110	.0000289	.0000716	.0001684	.0003765	.0008014
60	.0000005	.0000016	.0000045	.0000124	.0000320	.0000784	.0001825	.0004040
61	.0000002	.0000006	.0000018	.0000051	.0000138	.0000352	.0000853	.0001965
62	.0000001	.0000002	.0000007	.0000020	.0000057	.0000152	.0000384	.0000921
63		.0000001	.0000003	.0000008	.0000023	.0000064	.0000167	.0000416
64			.0000001	.0000003	.0000009	.0000026	.0000070	.0000181
65				.0000001	.0000003	.0000010	.0000028	.0000076
66					.0000001	.0000004	.0000011	.0000031
67						.0000001	.0000004	.0000012
68							.0000001	.0000004
69							.0000001	.0000002
70								.0000001

k	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999970	.9999989	.9999996	.9999999	.9999999	1.0000000	1.0000000	1.0000000
23	.9999918	.9999967	.9999988	.9999995	.9999998	.9999999	1.0000000	1.0000000

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 106

p	.41	.42	.43	.44	.45	.46	.47	.48
24	.9999784	.9999911	.9999965	.9999987	.9999995	.9999998	.9999999	1.0000000
25	.9999463	.9999770	.9999905	.9999962	.9999986	.9999995	.9999998	.9999999
26	.9998732	.9999456	.9999758	.9999900	.9999960	.9999985	.9999994	.9999998
27	.9997149	.9998681	.9999413	.9999747	.9999885	.9999958	.9999984	.9999994
28	.9993890	.9997063	.9998639	.9999322	.9999738	.9999892	.9999957	.9999983
29	.9987499	.9993755	.9996992	.9998604	.9999376	.9999731	.9999889	.9999956
30	.9975554	.9987313	.9993652	.9996939	.9998578	.9999364	.9999726	.9999887
31	.9954250	.9975340	.9987184	.9993581	.9996902	.9998561	.9999356	.9999723
32	.9917954	.9954084	.9975223	.9987113	.9993542	.9996883	.9998552	.9999353
33	.9858836	.9918008	.9954073	.9975201	.9987097	.9993534	.9996880	.9998552
34	.9766719	.9859427	.9918096	.9954214	.9975272	.9987136	.9993556	.9996894
35	.9629275	.9768347	.9860346	.9918609	.9954501	.9975434	.9987228	.9993609
36	.9432793	.9632670	.9770416	.9861584	.9919540	.9954628	.9975682	.9987371
37	.9163509	.9438900	.9636617	.9772907	.9863126	.9920478	.9955490	.9976014
38	.8809486	.9173430	.9445655	.9641091	.9775801	.9864957	.9921613	.9956180
39	.8362760	.8824307	.9184076	.9453029	.9646068	.9779078	.9867064	.9922936
40	.7821492	.8383675	.8840010	.9195392	.9460994	.9651524	.9782719	.9869432
41	.7191466	.7849122	.8405249	.8856322	.9207359	.9469523	.9657436	.9786706
42	.6486691	.7226001	.7877285	.8427465	.8873303	.9219951	.9478592	.9663781
43	.5728730	.6527676	.7260886	.7905980	.8450309	.8890928	.9233142	.9488174
44	.4944777	.5775031	.6568790	.7296136	.7935205	.8473770	.8909180	.9246511
45	.4154750	.4994663	.5821228	.6610063	.7331767	.7964963	.8497836	.8928038
46	.3417922	.4216088	.5044226	.5867361	.6651528	.7367796	.7995255	.8522498
47	.2729707	.3468447	.4266929	.5093521	.5913402	.6693217	.7404238	.8026084
48	.2119173	.2777304	.3518357	.4317329	.5142603	.5959634	.6735162	.7441112
49	.1597675	.2162127	.2824231	.3567703	.4367343	.5191522	.6005859	.6777394
50	.1168716	.1634832	.2204414	.2870529	.3616535	.4417083	.5240329	.6052200
51	.0828853	.1199541	.1671372	.2246061	.2916236	.3664899	.4466422	.5289074
52	.0569593	.0853428	.1229828	.1707303	.2287090	.2961388	.3712843	.4515589
53	.0379006	.0588334	.0877517	.1259572	.1742637	.2327525	.3006021	.3760411
54	.0244065	.0392748	.0606724	.0901146	.1288770	.1777381	.2367390	.3050170
55	.0152029	.0253739	.0406224	.0624711	.0924302	.1317418	.1811544	.2406705
56	.0091560	.0158560	.0263220	.0419411	.0642366	.0946970	.1345511	.1845135
57	.0053292	.0095805	.0164972	.0272485	.0432287	.0659578	.0969136	.1373046
58	.0029964	.0055937	.0099957	.0171221	.0281512	.0444828	.0676359	.0990788
59	.0015269	.0031547	.0058522	.0104002	.0177294	.0290279	.0457013	.0692688
60	.0008526	.0017178	.0033091	.0061034	.0107922	.0183172	.0298765	.0468821
61	.0004311	.0009027	.0018063	.0034580	.0063460	.0111701	.0188837	.0306948
62	.0002163	.0004576	.0009514	.0018919	.0036028	.0065790	.0115325	.0191269
63	.0000989	.0002237	.0004833	.0009983	.0019738	.0037434	.0066310	.0114179
64	.0000448	.0001054	.0002367	.0005079	.0010429	.0020516	.0038705	.0070109
65	.0000196	.0000478	.0001117	.0002491	.0005312	.0010850	.0021845	.0039925
66	.0000082	.0000209	.0000508	.0001176	.0002607	.0005530	.0011241	.0021922
67	.0000033	.0000088	.0000222	.0000535	.0001232	.0002714	.0005729	.0011598
68	.0000013	.0000036	.0000093	.0000234	.0000560	.0001282	.0002811	.0005909
69	.0000005	.0000014	.0000038	.0000099	.0000245	.0000583	.0001327	.0002897
70	.0000002	.0000005	.0000015	.0000040	.0000103	.0000255	.0000603	.0001366
71	.0000001	.0000002	.0000005	.0000015	.0000042	.0000107	.0000263	.0000619
72		.0000001	.0000002	.0000006	.0000016	.0000043	.0000110	.0000269
73			.0000001	.0000002	.0000006	.0000017	.0000044	.0000113
74				.0000001	.0000002	.0000006	.0000017	.0000045
75					.0000001	.0000002	.0000006	.0000017
76						.0000001	.0000002	.0000006
77							.0000001	.0000002
78								.0000001

p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	.9999999	1.0000000
27	.9999998	.9999999
28	.9999994	.9999998
29	.9999983	.9999994
30	.9999955	.9999983
31	.9999885	.9999954
32	.9999723	.9999885
33	.9999354	.9999723
34	.9998561	.9999359
35	.9996924	.9998577
36	.9993690	.9996970
37	.9987562	.9993799
38	.9976423	.9987800

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 106$$

c	.49	.50
39	.9956991	.9976907
40	.9924436	.9957915
41	.9872047	.9926103
42	.9791019	.9874893
43	.9670537	.9795640
44	.9498247	.9677682
45	.9261233	.9508787
46	.8947487	.9276088
47	.8547748	.8967509
48	.8057455	.8573578
49	.7478436	.8089371
50	.6819944	.7516228
51	.6098702	.6862845
52	.5337806	.6145405
53	.4564574	.5386574
54	.3807647	.4613426
55	.3093871	.3854595
56	.2445498	.3137155
57	.1878161	.2483772
58	.1400018	.1910629
59	.1011911	.1426422
60	.0708545	.1032491
61	.0480228	.0723912
62	.0314806	.0491213
63	.0199450	.0322318
64	.0122043	.0204360
65	.0072075	.0125107
66	.0041054	.0073897
67	.0022539	.0042085
68	.0011919	.0023093
69	.0006067	.0012200
70	.0002971	.0006201
71	.0001398	.0003030
72	.0000632	.0001423
73	.0000274	.0000641
74	.0000114	.0000277
75	.0000045	.0000115
76	.0000017	.0000046
77	.0000006	.0000017
78	.0000002	.0000006
79	.0000001	.0000002
80		.0000001

$$P(c,n,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 107

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.6588339	.8848696	.9615784	.9871228	.9938655	.9986675	.9995757	.9998666
2	.3900989	.6334623	.8344306	.9398038	.9785816	.9895665	.9961585	.9986250
3	.0926953	.3615320	.6260131	.8059910	.9076317	.9507781	.9825063	.9929038
4	.0329061	.1672961	.4004064	.6339724	.7879872	.8859956	.9466136	.9754874
5	.0045777	.0642328	.2189908	.4267055	.6242652	.7758458	.8761327	.9361137
6	.0007639	.0209032	.1034085	.2575334	.4467519	.6257511	.7673596	.8655832
7	.0001090	.0058707	.0426384	.1376466	.2879260	.4626823	.6279210	.7613208
8	.0000135	.0014443	.0155201	.0655717	.1673138	.3128845	.4764076	.6305071
9	.0000015	.0003151	.0050362	.0280327	.0879637	.1932055	.3340099	.4883184
10	.0000001	.0000616	.0014695	.0108274	.0420242	.1091756	.2160446	.3593117
11		.0000109	.0003805	.0038018	.0183291	.0566121	.1290292	.2364104
12		.0000017	.0000937	.0013205	.0073318	.0270262	.0712742	.1475374
13		.0000003	.0000207	.0003600	.0027014	.0119184	.0364970	.0857128
14			.0000042	.0000980	.0009205	.0048714	.0173481	.0464862
15			.0000008	.0000247	.0002911	.0018513	.0077008	.0234887
16			.0000001	.0000058	.0000857	.0006561	.0031094	.0111224
17				.0000013	.0000236	.0002174	.0012369	.0049392
18				.0000003	.0000061	.0000676	.0004502	.0020611
19				.0000001	.0000015	.0000197	.0001541	.0008098
20					.0000003	.0000054	.0000497	.0003001
21					.0000001	.0000014	.0000151	.0001051
22						.0000003	.0000044	.0000348
23						.0000001	.0000012	.0000109
24							.0000003	.0000033
25							.0000001	.0000009
26								.0000002
27								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999586	.9999873	.9999962	.9999989	.9999997	.9999999	1.0000000	1.0000000
2	.9995200	.9998363	.9999453	.9999821	.9999943	.9999982	.9999994	.9999998
3	.9972213	.9989468	.9996124	.9998611	.9999515	.9999835	.9999945	.9999982
4	.9892641	.9964678	.9988720	.9996837	.9998995	.9999639	.9999874	.9999974
5	.9688027	.9854952	.9935435	.9972366	.9908500	.9995443	.9998835	.9999337
6	.9271155	.9626232	.9817590	.9914061	.9961844	.9989529	.9997133	.9999230
7	.8570260	.9194205	.9569982	.9781554	.9893905	.9959558	.9989827	.9997407
8	.7570082	.8501591	.9128422	.9514267	.9747428	.9873115	.9938853	.9991657
9	.6333598	.7539627	.8446236	.9072187	.9473836	.9715528	.9852888	.9987013
10	.4988413	.6363892	.7516770	.8401567	.9084159	.9433336	.9685996	.9833474
11	.3684617	.5083649	.6395340	.7505376	.8565617	.8983143	.9397382	.9658868
12	.2547541	.3829260	.5171031	.6427724	.7897909	.8336881	.8940355	.9365590
13	.1647876	.2714263	.3960430	.5252103	.7106850	.7495239	.8314193	.8918690
14	.0997654	.1808918	.2867017	.4080593	.6238309	.6494001	.7496512	.8296631
15	.0565873	.1133501	.1959643	.3007977	.5319624	.5399624	.6527663	.7501073
16	.0301111	.0668214	.1264329	.2101129	.4398884	.4295067	.5467628	.6561558
17	.0150546	.0370947	.0770187	.1390077	.3534353	.3261150	.4392005	.5532564
18	.0070835	.0194142	.0443263	.0871048	.2760186	.2360186	.3375931	.4483394
19	.0031417	.0095916	.0241232	.0517164	.2097302	.1626843	.2474396	.3484184
20	.0013156	.0044793	.0124266	.0291319	.0591952	.1067635	.1738297	.2592659
21	.0005209	.0019799	.0060658	.0155491	.0343197	.0667086	.1162855	.1845476
22	.0001953	.0008254	.0028088	.0078871	.0189206	.0396949	.0742154	.1255662
23	.0000695	.0003297	.0012352	.0038028	.0099257	.0225043	.0451938	.0816848
24	.0000235	.0001245	.0005164	.0017445	.0049585	.0121621	.0262667	.0507602
25	.0000077	.0000447	.0002055	.0007621	.0023607	.0062695	.0145764	.0301774
26	.0000023	.0000153	.0000779	.0003173	.0010720	.0030847	.0074271	.0171487
27	.0000007	.0000050	.0000282	.0001261	.0004646	.0014456	.0035153	.0093218
28	.0000002	.0000016	.0000097	.0000472	.0001924	.0006511	.0015972	.0048494
29		.0000005	.0000032	.0000175	.0000761	.0002797	.0006797	.0024154
30		.0000001	.0000010	.0000060	.0000288	.0001150	.0002905	.0011524
31			.0000003	.0000020	.0000105	.0000453	.0001661	.0005070
32			.0000001	.0000006	.0000036	.0000171	.0000677	.0002311
33					.0000012	.0000062	.0000265	.0000973
34				.0000001	.0000004	.0000021	.0000099	.0000393
35					.0000001	.0000007	.0000036	.0000152
36						.0000002	.0000012	.0000057
37						.0000001	.0000004	.0000020
38							.0000001	.0000007
39								.0000002
40								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999957	.9999986	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999758	.9999914	.9999970	.9999990	.9999997	.9999999	1.0000000	1.0000000
6	.9998917	.9999589	.9999848	.9999946	.9999981	.9999994	.9999998	.9999999
7	.9995988	.9998376	.9999362	.9999757	.9999910	.9999968	.9999980	.9999996
8	.9987335	.9994534	.9997718	.9999077	.9999638	.9999862	.9999949	.9999982
9	.9965180	.9983992	.9992896	.9996952	.9998735	.9999491	.9999801	.9999925
10	.9915264	.9956539	.9980455	.9991110	.9996092	.9998338	.9999316	.9999727
11	.9815072	.9903782	.9951856	.9976794	.9989209	.9995153	.9997895	.9999115
12	.9634118	.9797789	.9892700	.9945336	.9973074	.9987830	.9994151	.9997411
13	.9337598	.9611656	.9781691	.9882119	.9938763	.9969353	.9985806	.9993105
14	.8893790	.9313074	.9591465	.9766809	.9872110	.9933506	.9965680	.9983168
15	.8283459	.8873004	.9291719	.9573252	.9753148	.9862725	.9926520	.9962099
16	.7508411	.8274080	.8855864	.9273240	.9557087	.9740699	.9853993	.9920849
17	.6595689	.7518130	.8260006	.8841973	.9257411	.9542797	.9729437	.9845946
18	.5594868	.6629840	.7529875	.8264835	.8830992	.9244004	.9530274	.9719331
19	.4549992	.5654099	.6664166	.7543414	.8264232	.8822630	.9232023	.9519413
20	.3586709	.4653435	.5712955	.6698591	.7550530	.8265915	.8816635	.9283689
21	.2700570	.3684181	.4731211	.5769286	.6733105	.7575017	.8269645	.8813789
22	.1948648	.2803652	.3777171	.4806792	.5824104	.6767705	.7593757	.8275219

$$F(c;n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 107

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
23	.1346617	.2048077	.2902367	.3866172	.4879538	.5877592	.6808390	.7611617
24	.0890914	.1435223	.2144015	.2997121	.3951607	.4949770	.5929906	.6837161
25	.0564236	.0964196	.1521417	.2236702	.3088270	.4033843	.5017763	.5981184
26	.0343095	.0630993	.1036560	.1605554	.2326364	.3176160	.4113208	.5083759
27	.0199599	.0383391	.0677867	.1107918	.1687602	.2413811	.3261054	.4189960
28	.0110486	.0886921	.0425453	.0734691	.1178209	.1767639	.2497440	.3343816
29	.0058828	.0128787	.0256287	.0460100	.0791339	.1247398	.1845747	.2579833
30	.0030039	.0070105	.0148191	.0886543	.0511174	.0847672	.1315463	.1928012
31	.0014707	.0036613	.0082265	.0168530	.0317849	.0554540	.0903631	.1382399
32	.0006908	.0018351	.0043858	.0095249	.0189703	.0348178	.0598079	.0989137
33	.0003113	.0008831	.0022456	.0051737	.0108991	.0211611	.0381315	.0684691
34	.0001347	.0004082	.0011048	.0027015	.0060289	.0123488	.0234168	.0461358
35	.0000560	.0001812	.0005224	.0013563	.0032018	.0069294	.0138495	.0297268
36	.0000224	.0000773	.0002375	.0006549	.0016376	.0037448	.0078694	.0184130
37	.0000086	.0000317	.0001038	.0003042	.0008061	.0019484	.0043288	.0088990
38	.0000032	.0000125	.0000437	.0001360	.0003819	.0009761	.0022880	.0049517
39	.0000011	.0000048	.0000177	.0000585	.0001742	.0004709	.0011650	.0026555
40	.0000004	.0000017	.0000069	.0000242	.0000765	.0002188	.0005716	.0013726
41	.0000001	.0000006	.0000026	.0000097	.0000324	.0000980	.0002702	.0006839
42		.0000002	.0000009	.0000037	.0000132	.0000403	.0001331	.0003385
43		.0000001	.0000003	.0000014	.0000052	.0000176	.0000541	.0001521
44			.0000001	.0000005	.0000020	.0000070	.0000229	.0000679
45				.0000002	.0000007	.0000027	.0000093	.0000292
46				.0000001	.0000003	.0000010	.0000037	.0000121
47					.0000001	.0000004	.0000014	.0000049
48						.0000001	.0000005	.0000019
49							.0000002	.0000007
50							.0000001	.0000003
51								.0000001

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999972	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999894	.9999960	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000
11	.9999640	.9999858	.9999946	.9999980	.9999993	.9999997	.9999999	1.0000000
12	.9998891	.9999540	.9999815	.9999928	.9999973	.9999990	.9999996	.9999999
13	.9996894	.9998647	.9999429	.9999767	.9999908	.9999965	.9999987	.9999995
14	.9992030	.9996354	.9998387	.9999310	.9999714	.9999885	.9999955	.9999983
15	.9981144	.9990944	.9995798	.9998115	.9999182	.9999657	.9999861	.9999945
16	.9956646	.9979159	.9989861	.9995235	.9997836	.9999506	.9999834	.9999934
17	.9915824	.9955350	.9977238	.9989796	.9994674	.9997554	.9998914	.9999534
18	.9838582	.9910571	.9953236	.9979390	.9987761	.9994122	.9997272	.9998777
19	.9710345	.9831904	.9906006	.9959324	.9973642	.9986767	.9993585	.9996996
20	.9510116	.9702438	.9825912	.9901841	.9946629	.9972003	.9985825	.9993070
21	.9216446	.9502288	.9695567	.9820592	.9898082	.9944162	.9970485	.9984942
22	.8810901	.9210949	.9495862	.9689691	.9815938	.9894730	.9941932	.9969095
23	.8288465	.8810806	.9207078	.9490675	.9684766	.9811916	.9891786	.9939943
24	.7651492	.8291238	.8813458	.9204697	.9486772	.9680750	.9808525	.9889245
25	.6878084	.7652296	.8301392	.8815426	.9203725	.9484001	.9677601	.9805748
26	.6031547	.6906986	.7673953	.8312031	.8819697	.9204056	.9482316	.9675980
27	.5147967	.6081101	.6948058	.7696401	.8325453	.8825669	.9205607	.9491654
28	.4264388	.5210574	.6129942	.6977232	.7719585	.8339170	.8832651	.9208299
29	.3428884	.4336686	.5271744	.6178156	.7012535	.7743458	.8353909	.8840763
30	.2658760	.3500269	.4407060	.5331625	.6225819	.7047972	.7767988	.8369608
31	.1996519	.2736178	.3575542	.4476688	.5390348	.6273001	.7083551	.7793122
32	.1444212	.2069358	.2811633	.3644096	.4542730	.5448032	.6319767	.7119886
33	.1014135	.1513914	.2140596	.2885261	.3720461	.4608332	.5504786	.6366175
34	.0685289	.1068583	.1576525	.2210332	.2957190	.3790442	.4678625	.5560708
35	.0446715	.0728801	.1128449	.1639068	.2278638	.3027536	.3858910	.4735738
36	.0280849	.0479802	.0792162	.1175710	.1700573	.2345591	.3096410	.3986008
37	.0170271	.0304830	.0543046	.0815320	.1228350	.1761068	.2411865	.3163915
38	.0099542	.0186861	.0329141	.0546581	.0858229	.1290359	.1820585	.2347289
39	.0056111	.0110809	.0803848	.0353719	.0579747	.0900852	.1331731	.1679159
40	.0030498	.0063046	.0181850	.0221161	.0378504	.0613094	.0943155	.1382467
41	.0015985	.0034697	.0070296	.0133526	.0238768	.0403442	.0646374	.0985114
42	.0008079	.0018430	.0039136	.0077834	.0145498	.0256614	.0388468	.0679545
43	.0003937	.0009433	.0021026	.0043800	.0085633	.0157787	.0274449	.0453378
44	.0001851	.0004660	.0010900	.0023792	.0048670	.0093665	.0170176	.0288836
45	.0000839	.0002221	.0005453	.0012475	.0026711	.0053730	.0101903	.0188809
46	.0000367	.0001021	.0002638	.0006314	.0014153	.0029769	.0058961	.0110380
47	.0000155	.0000453	.0001226	.0003084	.0007240	.0015929	.0032957	.0064343
48	.0000063	.0000194	.0000551	.0001454	.0003576	.0008130	.0017795	.0036868
49	.0000026	.0000080	.0000239	.0000661	.0001705	.0004106	.0009479	.0019743
50	.0000009	.0000032	.0000100	.0000290	.0000764	.0001978	.0004673	.0010364
51	.0000003	.0000018	.0000040	.0000123	.0000348	.0000919	.0002278	.0005374
52	.0000001	.0000005	.0000016	.0000050	.0000149	.0000413	.0001067	.0002587
53		.0000002	.0000006	.0000020	.0000062	.0000179	.0000483	.0001228
54		.0000001	.0000002	.0000008	.0000025	.0000075	.0000211	.0000560
55			.0000001	.0000003	.0000009	.0000030	.0000089	.0000247
56				.0000001	.0000004	.0000012	.0000036	.0000105
57					.0000001	.0000004	.0000014	.0000043
58						.0000001	.0000005	.0000017
59							.0000002	.0000007
60							.0000001	.0000002
61								.0000001

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

$n = 107$

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999979	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999934	.9999975	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
17	.9999806	.9999922	.9999970	.9999989	.9999996	.9999999	1.0000000	1.0000000
18	.9999470	.9999778	.9999910	.9999965	.9999987	.9999995	.9999998	.9999999
19	.9998641	.9999406	.9999749	.9999897	.9999959	.9999985	.9999994	.9999998
20	.9996728	.9998508	.9999343	.9999720	.9999885	.9999954	.9999982	.9999993
21	.9992583	.9996472	.9998380	.9999281	.9999692	.9999878	.9999949	.9999980
22	.9984185	.9992129	.9996232	.9998358	.9999223	.9999665	.9999861	.9999944
23	.9967841	.9983381	.9991711	.9996009	.9998145	.9999160	.9999639	.9999849
24	.9938200	.9966728	.9982714	.9991333	.9995806	.9998041	.9999117	.9999616
25	.9887101	.9936701	.9965759	.9982187	.9990998	.9995625	.9997948	.9999078
26	.9803544	.9885347	.9935448	.9964935	.9981623	.9990708	.9995467	.9997867
27	.9673747	.9801911	.9883973	.9934436	.9964258	.9981803	.9990464	.9995334
28	.9481957	.9672964	.9800822	.9882969	.9933662	.9963726	.9980868	.9990848
29	.9212062	.9483173	.9672896	.9800254	.9882323	.9933188	.9963339	.9980618
30	.8849932	.9216030	.9485350	.9673508	.9800187	.9882024	.9932809	.9963092
31	.8386190	.8860092	.9222545	.9488141	.9674765	.9800598	.9882059	.9932716
32	.7816848	.8403681	.8871185	.9229151	.9491802	.9676636	.9801466	.9883414
33	.7155185	.7845136	.8421850	.8883156	.9236598	.9496192	.9679090	.9802770
34	.6412279	.7191262	.7871964	.8440834	.8895950	.9244840	.9501271	.9682096
35	.5615809	.6458131	.7227528	.7899314	.8460536	.8909545	.9253833	.9507002
36	.4797764	.5670411	.6503777	.7263995	.7927169	.8480924	.8923877	.9263537
37	.3991849	.4858681	.5724352	.6549261	.7300675	.7955517	.8501967	.8938918
38	.3230148	.4056537	.4919001	.5777703	.6594625	.7337580	.7994346	.8538639
39	.2539052	.3295199	.4120170	.4978390	.5830771	.6639909	.7374724	.8013647
40	.1936822	.2601299	.3359154	.4188840	.5037071	.5883378	.6685151	.7412118
41	.1432567	.1993610	.2662532	.3422095	.4244631	.5095121	.5935664	.6730386
42	.1026704	.1482038	.2049557	.2728813	.3484097	.4305634	.5153614	.5981695
43	.0712571	.1067908	.1530886	.2104697	.2782198	.3545231	.4365896	.5201618
44	.0476688	.0745418	.1108711	.1579120	.2159066	.2840744	.3605573	.4405519
45	.0311130	.0503772	.0778057	.1149101	.1626750	.2212696	.2898505	.3665181
46	.0195591	.0329495	.0528795	.0810462	.1189069	.1673790	.2265622	.2955532
47	.0118889	.0208488	.0347892	.0553723	.0843609	.1220607	.1720250	.2317876
48	.0069857	.0127542	.0221467	.0366288	.0578522	.0874477	.1267708	.1764146
49	.0039670	.0075484	.0136374	.0234498	.0384649	.0603167	.0906046	.1306370
50	.0021767	.0043168	.0081203	.0145238	.0247550	.0402945	.0627630	.0937299
51	.0011539	.0023857	.0046743	.0086996	.0154149	.0260593	.0421145	.0651884
52	.0005908	.0012739	.0026005	.0050380	.0092840	.0163081	.0273599	.0439221
53	.0002931	.0006571	.0013979	.0028199	.0054064	.0098718	.0172011	.0266541
54	.0001395	.0003273	.0007259	.0015252	.0030431	.0057781	.0104509	.0160913
55	.0000643	.0001574	.0003640	.0007969	.0016552	.0032691	.0061517	.0110494
56	.0000286	.0000731	.0001763	.0004021	.0008697	.0017872	.0034960	.0065255
57	.0000123	.0000328	.0000824	.0001959	.0004413	.0009439	.0019206	.0037850
58	.0000051	.0000142	.0000372	.0000921	.0002162	.0004814	.0010190	.0020546
59	.0000020	.0000059	.0000162	.0000418	.0001022	.0002370	.0005220	.0010945
60	.0000008	.0000024	.0000068	.0000183	.0000467	.0001136	.0002582	.0005630
61	.0000003	.0000009	.0000028	.0000077	.0000205	.0000516	.0001232	.0002795
62	.0000001	.0000003	.0000011	.0000032	.0000087	.0000226	.0000567	.0001339
63		.0000001	.0000004	.0000012	.0000036	.0000097	.0000252	.0000618
64			.0000001	.0000005	.0000014	.0000040	.0000108	.0000275
65			.0000001	.0000002	.0000005	.0000016	.0000044	.0000118
66				.0000001	.0000002	.0000006	.0000018	.0000049
67					.0000001	.0000002	.0000007	.0000019
68						.0000001	.0000002	.0000007
69							.0000001	.0000003
70								.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999939	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 107

x/p	.41	.42	.43	.44	.45	.46	.47	.48
84	.9999839	.9999935	.9999975	.9999990	.9999997	.9999999	1.0000000	1.0000000
85	.9999595	.9999830	.9999931	.9999973	.9999990	.9999996	.9999999	1.0000000
86	.9999032	.9999576	.9999821	.9999927	.9999972	.9999989	.9999996	.9999999
87	.9997798	.9999098	.9999561	.9999814	.9999935	.9999970	.9999989	.9999996
88	.9995286	.9997742	.9998971	.9999548	.9999809	.9999928	.9999970	.9999989
89	.9990119	.9995144	.9997700	.9998951	.9999519	.9999805	.9999921	.9999969
90	.9980452	.9990019	.9995088	.9997671	.9998937	.9999533	.9999802	.9999920
91	.9968985	.9980369	.9989965	.9995058	.9997656	.9998930	.9999530	.9999802
92	.9950835	.9963011	.9980366	.9989959	.9995054	.9997655	.9998930	.9999531
93	.9883076	.9933160	.9963167	.9980441	.9989907	.9995074	.9997666	.9998936
94	.9804488	.9884031	.9933600	.9963448	.9980593	.9990079	.9995119	.9997690
95	.9656627	.9806600	.9885265	.9934387	.9963848	.9980817	.9990202	.9995186
96	.9513351	.9689654	.9809086	.9886763	.9935272	.9964361	.9981109	.9990365
97	.9273915	.9580283	.9694150	.9811925	.9888512	.9936385	.9964980	.9981465
98	.8954632	.9384938	.9527769	.9699090	.9815097	.9890496	.9937555	.9965700
99	.8545615	.8970989	.9296555	.9535776	.9704448	.9818502	.9892702	.9938093
100	.8043412	.8568774	.8987958	.9308752	.9544277	.9710199	.9823361	.9895114
101	.7449777	.8073634	.8598196	.9005513	.9321495	.9553244	.9716319	.9826414
102	.6775648	.7487712	.8104310	.8616162	.9023628	.9334754	.9562648	.9722785
103	.6039494	.6820973	.7525938	.8135493	.8640656	.9048279	.9348504	.9572465
104	.5266198	.6091148	.6866391	.7564467	.8167008	.8665663	.9061442	.9362717
105	.4484561	.5328417	.6148678	.6911935	.7603314	.8199014	.8691168	.9081097
106	.3724182	.4543090	.5378336	.6194150	.6957636	.7643493	.8231460	.8717157
107	.3011875	.3780456	.4601167	.5434011	.6245603	.7003583	.7688016	.8264363
108	.2369492	.3067584	.3840243	.4658854	.5489499	.6297082	.7049600	.7721899
109	.1811489	.2420501	.3122705	.3897839	.4716810	.5544853	.6348631	.7095978
110	.1344589	.1856296	.2470936	.3177286	.3954399	.4773293	.5600120	.6400293
111	.0968280	.1382363	.1900580	.2520827	.3231370	.4010876	.4830158	.5655375
112	.0675906	.0998795	.1419693	.1944357	.2570206	.3285703	.4067025	.4868862
113	.0457146	.0699673	.1029011	.1456574	.1987641	.2619108	.3338227	.4122096
114	.0299391	.0474894	.0723165	.1058854	.1493010	.2030447	.2667546	.3391086
115	.0189764	.0312123	.0492439	.0746359	.1088313	.1529001	.2078798	.2715568
116	.0116352	.0198540	.0324712	.0509756	.0769237	.1117376	.1564547	.2114689
117	.0068883	.0122165	.0207019	.0337133	.0526822	.0791778	.1146033	.1599649
118	.0039528	.0072661	.0127914	.0215777	.0348361	.0543613	.0813964	.1174278
119	.0021884	.0041791	.0076339	.0133578	.0224192	.0361372	.0560106	.0835776
120	.0011700	.0023213	.0044026	.0079948	.0139119	.0232443	.0373148	.0576877
121	.0006039	.0012451	.0024525	.0046224	.0083468	.0144578	.0240503	.0384647
122	.0003008	.0006446	.0013190	.0025813	.0048373	.0086900	.0148876	.0240355
123	.0001445	.0003220	.0006846	.0013915	.0027069	.0050461	.0090248	.0155014
124	.0000670	.0001551	.0003427	.0007237	.0014618	.0028284	.0052479	.0093470
125	.0000299	.0000720	.0001654	.0003630	.0007615	.0015296	.0029452	.0054413
126	.0000129	.0000322	.0000770	.0001755	.0003824	.0007977	.0015943	.0030563
127	.0000053	.0000139	.0000345	.0000817	.0001851	.0004009	.0008320	.0016554
128	.0000021	.0000058	.0000149	.0000367	.0000862	.0001941	.0004183	.0008640
129	.0000008	.0000023	.0000063	.0000158	.0000387	.0000905	.0002025	.0004343
130	.0000003	.0000009	.0000025	.0000066	.0000167	.0000406	.0000943	.0002101
131	.0000001	.0000003	.0000009	.0000026	.0000069	.0000175	.0000423	.0000978
132		.0000001	.0000003	.0000010	.0000028	.0000072	.0000182	.0000437
133			.0000001	.0000004	.0000011	.0000029	.0000075	.0000188
134				.0000001	.0000004	.0000011	.0000030	.0000077
135					.0000001	.0000004	.0000011	.0000031
136						.0000001	.0000004	.0000013
137							.0000001	.0000004
138								.0000001

x/p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	.9999999	1.0000000
28	.9999996	.9999999
29	.9999988	.9999996
30	.9999969	.9999988
31	.9999912	.9999969
32	.9999802	.9999920
33	.9999534	.9999804
34	.9998949	.9999541
35	.9997786	.9998960
36	.9995875	.9997773
37	.9990565	.9995384
38	.9981881	.9990799

$$F(c;n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 107$$

c \ p	.49	.50
39	.2966513	.9982154
40	.3940388	.9987411
41	.4897718	.9942009
42	.5810783	.9900498
43	.6729573	.9835267
44	.7588649	.9736661
45	.8377370	.9593835
46	.9101283	.9390838
47	.9743630	.9121749
48	.9297698	.8770543
49	.7762155	.8331474
50	.7148605	.7802799
51	.6458110	.7189537
52	.5710645	.6504125
53	.4943458	.5765990
54	.4178541	.5000000
55	.3443681	.4234010
56	.2763108	.3495875
57	.2156153	.2810463
58	.1634308	.2197201
59	.1208084	.1668586
60	.0857194	.1229457
61	.0593103	.0878201
62	.0395862	.0607568
63	.0255974	.0406765
64	.0159972	.0263339
65	.0096559	.0164733
66	.0056854	.0099502
67	.0031612	.0057991
68	.0017183	.0032589
69	.0008935	.0017646
70	.0004488	.0009201
71	.0003169	.0004616
72	.0001007	.0002227
73	.0000450	.0001032
74	.0000193	.0000459
75	.0000070	.0000196
76	.0000031	.0000080
77	.0000018	.0000031
78	.0000004	.0000013
79	.0000001	.0000004
80		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

p	.01	.02	.03	.04	.05	.06	.07	.08
1	.63288456	.86871722	.96273310	.98788899	.99607782	.99874746	.99960854	.99987778
2	.89378663	.63844905	.83882450	.93306646	.97174450	.99011186	.99639377	.99878243
3	.09466693	.36699706	.63288656	.81098836	.91087798	.96069854	.98834805	.99338605
4	.00836040	.17111808	.40717766	.63125331	.79397695	.89413895	.94912874	.97688807
5	.00047630	.06629934	.24844333	.43466710	.63844494	.78286948	.88112584	.93926636
6	.00008090	.02176908	.10668760	.26410015	.45568075	.63475567	.77498878	.87128857
7	.00001155	.00611714	.04446615	.14244800	.29584673	.47865644	.63776817	.78966118
8	.00000145	.00153308	.01633336	.06844847	.17334444	.33180844	.48170879	.64097228
9	.00000016	.00033176	.00535007	.02955343	.09159212	.20003863	.34394834	.49969335
10	.00000002	.00006666	.00157655	.01155156	.04433018	.11481174	.22439081	.36319208
11		.00000119	.00042009	.00400829	.01951178	.00977660	.13512803	.24568085
12		.00000019	.00011085	.00133837	.00780417	.00480013	.07531771	.15464473
13		.00000003	.00002829	.00039345	.00289389	.00218849	.03893314	.09065887
14			.00000647	.00010855	.00100095	.00058943	.01807071	.04956691
15			.00000099	.00002877	.00032886	.00020385	.00083775	.02533837
16			.00000014	.00000866	.00009960	.00007070	.00035050	.01011117
17			.00000002	.00000215	.00002867	.00002430	.00013735	.00543340
18				.00000053	.00000779	.00000766	.00005058	.00282914
19				.00000013	.00000197	.00000286	.00001740	.00090000
20				.00000003	.00000044	.00000093	.00000570	.00034092
21					.00000011	.00000026	.00000176	.00012807
22						.00000007	.00000051	.00004404
23						.00000001	.00000014	.00001528
24							.00000004	.00000539
25							.00000001	.00000211
26								.00000083
27								.00000031

p	.09	.10	.11	.12	.13	.14	.15	.16
1	.99996823	.99998816	.99999566	.99999838	.99999937	.99999999	1.00000000	1.00000000
2	.99955596	.99986514	.99995809	.99998841	.99999550	.99999884	.99999995	.99999999
3	.99742082	.99903557	.99964490	.99988757	.99996571	.99998855	.99999852	.99999985
4	.98898808	.99583337	.99883305	.99963530	.99987569	.99995113	.99998685	.99999891
5	.97064438	.98649245	.99405586	.99748823	.99897719	.99959540	.99986446	.99994823
6	.93086674	.95449104	.98305535	.99031768	.99653381	.99855197	.99933882	.99797567
7	.86833341	.90374088	.95277835	.97975551	.99027737	.99551174	.99801283	.99391499
8	.76660988	.83708538	.91756993	.95507411	.97666470	.99035957	.99446699	.99074657
9	.64448882	.74638833	.85611276	.91255037	.95092403	.98737590	.98965777	.98341156
10	.51094790	.64401466	.78630791	.84982042	.90883600	.97478843	.97911039	.97848440
11	.38019599	.53111673	.65118961	.76129919	.84513035	.94406674	.96466805	.96866605
12	.26498678	.39547054	.53057511	.65577048	.76107111	.89273588	.93615684	.94138514
13	.17388446	.28257764	.40933996	.53931778	.66895493	.82409303	.89409069	.89901194
14	.10561746	.19094452	.29887293	.42911174	.56752553	.74613174	.83919164	.83961161
15	.06064733	.12810143	.20594454	.31366691	.43393376	.65558837	.76738991	.76838363
16	.03249402	.07144743	.13408813	.22099551	.33757744	.54449705	.68666634	.67111800
17	.01640972	.04006674	.08245433	.14775403	.25351942	.43405899	.59533488	.56973303
18	.00780099	.02118228	.04798085	.09333331	.18604906	.33286342	.49853261	.46511061
19	.00349681	.01057394	.02634555	.05596630	.13040574	.24613876	.40139876	.36644058
20	.00148001	.00499051	.01371132	.03180844	.08641137	.17295024	.31449462	.27355303
21	.00059235	.00232299	.00676654	.01717767	.05375515	.07231631	.12449178	.19650285
22	.00022347	.00099445	.00316670	.00888045	.03209224	.04347688	.08058860	.13508800
23	.00008008	.00037997	.00140483	.00440939	.01810950	.02491110	.04954711	.08870886
24	.00002776	.00014481	.00059555	.00209915	.00956048	.01361100	.02911058	.05579348
25	.00000940	.00005587	.00023397	.00098800	.00486984	.00720945	.01638899	.03347339
26	.00000308	.00002103	.00008919	.00043707	.00233905	.00355306	.00875546	.01933333
27	.00000098	.00000760	.00003336	.00018490	.00107496	.00166786	.00448871	.01057741
28	.00000032	.00000269	.00001217	.00007570	.00047270	.00074609	.00219990	.00555650
29	.00000001	.00000091	.00000426	.00002910	.00020113	.00031783	.00101383	.00288048
30		.00000030	.00000139	.00001074	.00008350	.00013380	.00044639	.00143545
31			.00000044	.00000385	.00003438	.00005550	.00019977	.00069270
32			.00000013	.00000138	.00001445	.00002310	.00008224	.00033784
33				.00000048	.00000576	.00000977	.00003326	.00015186
34				.00000016	.00000225	.00000397	.00001184	.00006485
35				.00000005	.00000082	.00000157	.00000545	.00002791
36						.00000060	.00000216	.00001173
37						.00000023	.00000085	.00000486
38							.00000032	.00000199
39							.00000011	.00000081
40								.00000033
41								.00000013

p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999963	.99999988	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
5	.99997191	.99999027	.99999775	.99999932	.99999987	.99999999	1.00000000	1.00000000
6	.99999060	.99996647	.99999871	.99999954	.99999984	.99999995	.99999998	.99999999
7	.99964486	.99988594	.99996455	.99998795	.99999935	.99999971	.99999991	.99999997
8	.99868806	.99955225	.99988030	.99996213	.99998705	.99999885	.99999958	.99999985
9	.99640946	.99858890	.99963813	.99987377	.99994924	.99999571	.99999835	.99999938
10	.99037750	.99631120	.99882819	.99962878	.99986647	.99998592	.99994428	.99997774
11	.98321105	.99113638	.99572990	.99779657	.99906655	.99958854	.99898333	.99979868
12	.96448878	.98146868	.99039940	.99511547	.99764443	.99888771	.99745018	.99937820
13	.93389034	.96455160	.98027883	.98947743	.99459968	.99732384	.99074963	.99741338
14	.89692338	.93468819	.96275559	.97899871	.98861107	.99406418	.98701171	.99385853
15	.84387815	.89528217	.93486654	.96119964	.97781170	.98780077	.97935837	.98767156
16	.76401669	.83818886	.89386675	.93332343	.95982660	.97675455	.96706477	.97307749
17	.67500802	.76541193	.83796699	.89286206	.93203433	.95865355	.94758086	.96639823
18	.57649971	.67697131	.77470130	.83480263	.89220540	.93097730	.92576081	.97457719
19	.47444231	.58303349	.69486651	.76877698	.83832252	.89115333	.89101836	.95673994
20	.37533668	.48328870	.58993685	.68675556	.77067720	.83888392	.84918358	.92844663

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

x	.17	.18	.19	.20	.21	.22	.23	.24
21	.2851214	.3458465	.4917743	.5955147	.6906443	.7727015	.8395452	.8911405
22	.2076475	.2962147	.3958439	.4999291	.6014994	.6945314	.7748441	.8404236
23	.1448962	.2184081	.3063580	.4054296	.5077897	.6073417	.6984174	.7770882
24	.0968304	.1545435	.2288102	.3170931	.4146472	.5153891	.6130577	.7023031
25	.0619771	.1048963	.1639711	.2388786	.3269577	.4295347	.5227556	.6186618
26	.0379859	.0682769	.1128683	.1731784	.2486366	.3364850	.4321251	.5299141
27	.0222993	.0426159	.0746019	.1207445	.1821742	.2581060	.3457048	.4404478
28	.0125416	.0255086	.0473412	.0809356	.1285182	.1909665	.2673071	.3546438
29	.0067600	.0146451	.0288429	.0521418	.0873574	.1361881	.1995637	.2762589
30	.0034933	.0080667	.0168729	.0322854	.0570007	.0935612	.1437428	.2079745
31	.0017314	.0042641	.0094791	.0192133	.0358210	.0619029	.0998352	.1511906
32	.0008234	.0021638	.0051153	.0109905	.0216531	.0394357	.0668356	.1060720
33	.0003758	.0010545	.0026522	.0060440	.0125940	.0241876	.0431171	.0717078
34	.0001648	.0004936	.0013216	.0031960	.0070469	.0142828	.0268007	.0468538
35	.0000694	.0002221	.0006331	.0016254	.0037948	.0081203	.0160498	.0294849
36	.0000281	.0000960	.0002917	.0007952	.0019661	.0044454	.0092602	.0178883
37	.0000109	.0000399	.0001292	.0003744	.0009807	.0023436	.0051478	.0104624
38	.0000041	.0000160	.0000551	.0001696	.0004710	.0011900	.0027574	.0058891
39	.0000015	.0000062	.0000226	.0000740	.0002178	.0005821	.0014233	.0032066
40	.0000005	.0000023	.0000089	.0000311	.0000970	.0002743	.0007080	.0016805
41	.0000002	.0000008	.0000034	.0000126	.0000416	.0001246	.0003395	.0008492
42	.0000001	.0000003	.0000012	.0000049	.0000172	.0000545	.0001569	.0004138
43		.0000001	.0000004	.0000018	.0000069	.0000239	.0000699	.0001944
44			.0000001	.0000007	.0000026	.0000094	.0000301	.0000881
45				.0000002	.0000010	.0000037	.0000125	.0000385
46				.0000001	.0000003	.0000014	.0000050	.0000162
47					.0000001	.0000005	.0000019	.0000066
48						.0000002	.0000007	.0000026
49						.0000001	.0000003	.0000010
50							.0000001	.0000004
51								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999914	.9999968	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
11	.9999703	.9999884	.9999956	.9999984	.9999994	.9999998	.9999999	1.0000000
12	.9999078	.9999623	.9999850	.9999943	.9999979	.9999992	.9999997	.9999999
13	.9997393	.9998879	.9999534	.9999812	.9999927	.9999972	.9999990	.9999996
14	.9993246	.9996950	.9998663	.9999438	.9999770	.9999909	.9999965	.9999987
15	.9983865	.9992350	.9996497	.9998450	.9999337	.9999725	.9999890	.9999957
16	.9964270	.9982223	.9991464	.9996042	.9998227	.9999232	.9999678	.9999870
17	.9926305	.9961540	.9980644	.9994599	.9995591	.9998003	.9999125	.9999630
18	.9857838	.9922814	.9958986	.9991144	.9990766	.9995151	.9997781	.9999019
19	.9742404	.9852359	.9918488	.9986623	.9983736	.9988974	.9994728	.9997566
20	.9560173	.9736099	.9847538	.9979136	.9974463	.9976432	.9988230	.9994326
21	.9289863	.9554327	.9730761	.9963342	.9962160	.9952514	.9975240	.9987543
22	.8913287	.9286697	.9549768	.9726343	.9939755	.9909560	.9950783	.9974166
23	.8414574	.8914844	.9285040	.9546414	.9902804	.9836760	.9907331	.9949272
24	.7794236	.8426321	.8918931	.9284778	.9844191	.9720100	.9834336	.9905468
25	.7061891	.7818419	.8439352	.8924422	.9285909	.9543036	.9718188	.9832463
26	.6241666	.7100766	.7843368	.8453558	.8931207	.9288040	.9542854	.9717020
27	.5364862	.6295831	.7139665	.7866901	.8468841	.8939185	.9291387	.9543614
28	.4485283	.5436911	.6349212	.7178599	.7895286	.8485120	.8948267	.9295773
29	.3653240	.4563897	.5503458	.6401897	.7217580	.7922172	.8502319	.8958375
30	.2849791	.3717733	.4640525	.5566853	.6453967	.7256618	.7949619	.8520373
31	.2168079	.2934840	.3800052	.4715350	.5632634	.6505492	.7295125	.7977595
32	.1585268	.2242727	.3017808	.3880398	.4788539	.5695527	.6556540	.7334913
33	.1122664	.1657508	.2321776	.3099079	.3958933	.4860242	.5757430	.6607170
34	.0767590	.1184109	.1728824	.2399312	.3178544	.4035809	.4930595	.5818457
35	.0506358	.0817144	.1245049	.1799022	.2475418	.3256407	.4111162	.4999785
36	.0322315	.0544542	.0866740	.1305450	.1868212	.2550175	.3332785	.4185120
37	.0197916	.0350323	.0583007	.0916229	.1365294	.1936425	.2623660	.3407785
38	.0117224	.0217533	.0377796	.0621684	.0965564	.1424571	.2033696	.2695948
39	.0066919	.0130360	.0237673	.0407664	.0660507	.1014704	.1483276	.2070061
40	.0036902	.0075302	.0143948	.0258278	.0436865	.0699421	.1063614	.1541408
41	.0019613	.0042068	.0084216	.0158064	.0279291	.0466337	.0738376	.1112267
42	.0010055	.0023652	.0047549	.0093428	.0173546	.0300661	.0496028	.0777327
43	.0004973	.0011770	.0025916	.0053329	.0102994	.0187392	.0322337	.0525887
44	.0002372	.0005901	.0013634	.0029394	.0059389	.0112883	.0202562	.0344273
45	.0001092	.0002855	.0006924	.0015644	.0033079	.0065711	.0123068	.0218017
46	.0000485	.0001353	.0003394	.0008036	.0017795	.0036958	.0072273	.0133517
47	.0000208	.0000601	.0001606	.0003998	.0009245	.0020081	.0041018	.0079056
48	.0000086	.0000261	.0000733	.0001910	.0004638	.0010840	.0022495	.0045228
49	.0000034	.0000110	.0000323	.0000843	.0002347	.0005343	.0011919	.0025029
50	.0000013	.0000044	.0000138	.0000394	.0001051	.0002616	.0006101	.0013379
51	.0000005	.0000017	.0000056	.0000170	.0000475	.0001277	.0003016	.0006900
52	.0000002	.0000007	.0000022	.0000071	.0000207	.0000565	.0001440	.0003447
53	.0000001	.0000002	.0000009	.0000028	.0000087	.0000249	.0000664	.0001661
54		.0000001	.0000003	.0000011	.0000035	.0000106	.0000296	.0000773
55			.0000001	.0000004	.0000014	.0000044	.0000121	.0000347
56				.0000001	.0000005	.0000017	.0000051	.0000151
57				.0000001	.0000002	.0000007	.0000021	.0000063
58					.0000001	.0000002	.0000008	.0000026
59						.0000001	.0000003	.0000010
60							.0000001	.0000004
61								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999949	.9999981	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
17	.9999849	.9999940	.9999977	.9999992	.9999997	.9999999	1.0000000	1.0000000
18	.9999581	.9999827	.9999931	.9999973	.9999990	.9999996	.9999999	1.0000000
19	.9999014	.9999532	.9999805	.9999922	.9999970	.9999989	.9999996	.9999999
20	.9997359	.9998813	.9999485	.9999784	.9999912	.9999966	.9999987	.9999995
21	.9993951	.9997164	.9998717	.9999439	.9999763	.9999904	.9999962	.9999986
22	.9986917	.9993606	.9996983	.9998626	.9999396	.9999744	.9999895	.9999959
23	.9973215	.9986355	.9993293	.9996819	.9998544	.9999357	.9999726	.9999887
24	.9947981	.9972390	.9988863	.9993016	.9996671	.9998469	.9999321	.9999709
25	.9903964	.9946910	.9971693	.9985441	.9992777	.9996543	.9998404	.9999289
26	.9831118	.9902808	.9946057	.9971124	.9985091	.9992576	.9996435	.9998349
27	.9716710	.9830279	.9901989	.9945416	.9970683	.9984815	.9992415	.9996347
28	.9545248	.9716806	.9829925	.9901497	.9944983	.9970367	.9984610	.9992294
29	.9301127	.9547702	.9717670	.9830031	.9901319	.9944752	.9970175	.9984478
30	.8969435	.9307387	.9550926	.9719136	.9830577	.9901441	.9944715	.9970103
31	.8539225	.8981383	.9314492	.9554873	.9721171	.9831540	.9901851	.9944866
32	.8006071	.8558822	.8994161	.9322387	.9559498	.9723741	.9832897	.9902535
33	.7374194	.8035021	.8579117	.9007714	.9331024	.9564761	.9726816	.9834427
34	.6657438	.7413579	.8064424	.8600070	.9021995	.9340353	.9570620	.9730366
35	.5878698	.6707395	.7453081	.8094261	.8621642	.9036957	.9350334	.9577040
36	.5067745	.5938236	.6757090	.7492709	.8124515	.8643800	.9052560	.9360923
37	.4257801	.5134762	.5997151	.6806565	.7532477	.8155171	.8666512	.9068766
38	.3481509	.4329314	.5200874	.6055515	.6855863	.7572396	.8186218	.8689750
39	.2767113	.3554054	.4399761	.5266171	.6113397	.6905024	.7612476	.8217644
40	.2135558	.2837225	.3625510	.4469238	.5330740	.6170860	.6954084	.7652730
41	.1598972	.2200224	.2906350	.3695963	.4537833	.5394659	.6227964	.7003079
42	.1160639	.1655972	.2264098	.2974554	.3765494	.4605633	.5458003	.6284765
43	.0816235	.1208712	.1712421	.2327219	.3041901	.3834182	.4672716	.5520845
44	.0555869	.0855065	.1256472	.1768328	.2389625	.3108450	.3902098	.4739158
45	.0366424	.0585932	.0893786	.1303908	.1823707	.2451354	.3174861	.3969316
46	.0233719	.0388749	.0616037	.0932372	.1351011	.1878574	.2512446	.3239391
47	.0144200	.0249630	.0411208	.0646148	.0970799	.1397776	.1932945	.2572938
48	.0086038	.0155090	.0265716	.0433764	.0676234	.1009046	.1444800	.1986838
49	.0049632	.0093197	.0166157	.0281943	.0456388	.0706265	.1047094	.1490280
50	.0027675	.0054156	.0100513	.0177372	.0298277	.0479029	.0736812	.1084927
51	.0014914	.0030423	.0058804	.0107963	.0188707	.0314687	.0501674	.0766050
52	.0007766	.0016819	.0033263	.0063561	.0115585	.0200136	.0331142	.0534886
53	.0003907	.0008668	.0018188	.0036184	.0068411	.0123176	.0211630	.0367619
54	.0001899	.0004394	.0009611	.0019913	.0039176	.0073337	.0130896	.0248164
55	.0000891	.0002152	.0004907	.0010591	.0021587	.0042225	.0078323	.0163661
56	.0000404	.0001018	.0002420	.0005442	.0011603	.0023504	.0045322	.0103351
57	.0000177	.0000465	.0001153	.0002702	.0005998	.0012643	.0025353	.0064452
58	.0000075	.0000205	.0000530	.0001293	.0002995	.0006571	.0013706	.0037227
59	.0000030	.0000087	.0000235	.0000599	.0001444	.0003299	.0007158	.0020785
60	.0000012	.0000036	.0000101	.0000268	.0000672	.0001599	.0003611	.0007786
61	.0000005	.0000014	.0000042	.0000115	.0000302	.0000748	.0001758	.0003929
62	.0000002	.0000005	.0000017	.0000048	.0000131	.0000326	.0000826	.0001921
63	.0000001	.0000002	.0000006	.0000019	.0000055	.0000147	.0000375	.0000906
64		.0000001	.0000002	.0000007	.0000022	.0000062	.0000164	.0000413
65			.0000001	.0000003	.0000009	.0000025	.0000069	.0000181
66				.0000001	.0000003	.0000010	.0000028	.0000077
67					.0000001	.0000004	.0000011	.0000031
68						.0000001	.0000004	.0000012
69							.0000002	.0000005
70							.0000001	.0000002
71								.0000001

n \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

r	.41	.42	.43	.44	.45	.46	.47	.48
23	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999955	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
25	.9999880	.9999952	.9999982	.9999993	.9999998	.9999999	1.0000000	1.0000000
	.9999695	.9999874	.9999950	.9999981	.9999993	.9999997	.9999999	1.0000000
26	.9999263	.9999683	.9999868	.9999947	.9999980	.9999993	.9999997	.9999999
27	.9998304	.9999241	.9999673	.9999864	.9999946	.9999979	.9999992	.9999997
28	.9996281	.9998270	.9999225	.9999665	.9999861	.9999944	.9999979	.9999992
29	.9992213	.9996235	.9998247	.9999214	.9999660	.9999859	.9999944	.9999978
30	.9984415	.9992171	.9996211	.9998234	.9999205	.9999658	.9999858	.9999943
31	.9970146	.9984422	.9992168	.9996208	.9998235	.9999207	.9999658	.9999858
32	.9945196	.9970301	.9984494	.9992203	.9996228	.9998241	.9999813	.9999661
33	.9903477	.9945697	.9970563	.9984629	.9992275	.9996261	.9998260	.9999282
34	.9836709	.9904665	.9946360	.9970926	.9984825	.9992377	.9996316	.9998238
35	.9734360	.9839121	.9906083	.9947174	.9971383	.9985077	.9992513	.9996388
36	.9583984	.9738772	.9841843	.9907718	.9948131	.9971931	.9985383	.9992679
37	.9372084	.9591419	.9743573	.9844854	.9909554	.9949222	.9972561	.9985737
38	.9085538	.9383780	.9599313	.9748738	.9848134	.9911578	.9950435	.9973267
39	.8713489	.9102845	.9395977	.9607634	.9754240	.9851663	.9913774	.9951760
40	.8249438	.8737704	.9120655	.9408643	.9616354	.9760055	.9855421	.9916128
41	.7693167	.8281593	.8762374	.9138938	.9421747	.9625443	.9766139	.9859390
42	.7052041	.7733799	.8314101	.8787477	.9157668	.9435259	.9634874	.9772527
43	.6341317	.7101003	.7774638	.8346954	.8812993	.9176817	.9449152	.9644619
44	.5583249	.6397671	.7149996	.7815692	.8380122	.8838906	.9196361	.9463396
45	.4805032	.5643282	.6453875	.7199049	.7856974	.8413673	.8865197	.9216875
46	.4035902	.4870407	.5707003	.6509976	.7248191	.7898493	.8447527	.8891849
47	.3303896	.4101922	.4935349	.5768472	.6566018	.7297449	.7940258	.8481704
48	.2632869	.3367830	.4167440	.4999923	.5829746	.6622045	.7346850	.7902282
49	.2040270	.2692276	.3431247	.4232517	.5064190	.5890879	.6678100	.7256420
50	.1536018	.2093262	.2751197	.3494197	.4297214	.5128811	.5951925	.6534828
51	.1122532	.1581415	.2145833	.2809669	.3556733	.4361588	.5192044	.6012936
52	.0795755	.1159894	.1626474	.2198004	.2867730	.3618905	.4425698	.5255748
53	.0546838	.0825305	.1197004	.1671198	.2249795	.2925416	.3680762	.4489600
54	.0364070	.0569301	.0854679	.1233851	.1715594	.2301229	.2982766	.3742355
55	.0234711	.0380487	.0591651	.0883857	.1270427	.1759666	.2352326	.3039817
56	.0146451	.0246245	.0396834	.0613862	.0912821	.1306723	.1803422	.2403111
57	.0088404	.0154243	.0257741	.0413067	.0635909	.0941553	.1342734	.1846866
58	.0051604	.0093465	.0162015	.0269174	.0429218	.0657769	.0970036	.1378453
59	.0029118	.0054765	.0098516	.0169746	.0280518	.0445203	.0679419	.0998254
60	.0015876	.0031016	.0057921	.0103540	.0177413	.0291750	.0461015	.0700836
61	.0008360	.0016971	.0032911	.0061059	.0108520	.0184995	.0302843	.0476629
62	.0004251	.0008968	.0018064	.0034794	.0064166	.0113437	.0192471	.0313775
63	.0002086	.0004575	.0009574	.0019150	.0036656	.0067227	.0118273	.0199817
64	.0000988	.0002252	.0004897	.0010175	.0020221	.0038486	.0070230	.0123011
65	.0000451	.0001069	.0002417	.0005217	.0010760	.0021271	.0040274	.0073160
66	.0000198	.0000489	.0001150	.0002580	.0005530	.0011344	.0022392	.0042011
67	.0000084	.0000216	.0000526	.0001230	.0002739	.0005834	.0011903	.0023278
68	.0000034	.0000092	.0000233	.0000565	.0001307	.0002892	.0006127	.0012439
69	.0000014	.0000038	.0000099	.0000250	.0000601	.0001381	.0003039	.0006406
70	.0000005	.0000015	.0000041	.0000106	.0000266	.0000635	.0001452	.0003177
71	.0000002	.0000006	.0000016	.0000044	.0000113	.0000281	.0000667	.0001517
72	.0000001	.0000002	.0000006	.0000017	.0000046	.0000120	.0000295	.0000697
73		.0000001	.0000002	.0000006	.0000018	.0000049	.0000125	.0000308
74			.0000001	.0000002	.0000007	.0000019	.0000051	.0000130
75				.0000001	.0000002	.0000007	.0000020	.0000053
76					.0000001	.0000003	.0000008	.0000021
77						.0000001	.0000003	.0000008
78							.0000001	.0000003
79								.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	.9999999	1.0000000
28	.9999997	.9999999
29	.9999993	.9999997
30	.9999988	.9999992
31	.9999944	.9999978
32	.9999860	.9999944
33	.9999665	.9999862
34	.9999236	.9999672
35	.9998325	.9999255

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 100$$

x	.49	.50
36	.9996476	.9998371
37	.9992873	.9995579
38	.9986136	.9989092
39	.9974043	.9976577
40	.9953189	.9954882
41	.9918626	.9924710
42	.9863550	.9867882
43	.9779136	.9785964
44	.9654652	.9664948
45	.9477967	.9482836
46	.9236535	.9257118
47	.8918845	.8946171
48	.8516200	.8551009
49	.8024571	.8067137
50	.7446185	.7496168
51	.6790453	.6846831
52	.6073963	.6135057
53	.5319380	.5382995
54	.4553350	.4617005
55	.3803732	.3864943
56	.3096605	.3153169
57	.2433605	.2503832
58	.1890014	.1932863
59	.1413874	.1448991
60	.1026190	.1053829
61	.0731998	.0742888
62	.0492020	.0507164
63	.0324519	.0335052
64	.0207013	.0214036
65	.0127638	.0132118
66	.0076004	.0078746
67	.0043687	.0045290
68	.0024282	.0025118
69	.0012947	.0013423
70	.0006667	.0006908
71	.0003305	.0003421
72	.0001576	.0001629
73	.0000723	.0000745
74	.0000318	.0000328
75	.0000135	.0000138
76	.0000055	.0000056
77	.0000021	.0000022
78	.0000008	.0000008
79	.0000003	.0000003
80	.0000001	.0000001
81		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 109

r\p	.01	.02	.03	.04	.05	.06	.07	.08
1	.66562310	.88942870	.96384910	.98831670	.99626860	.99882260	.99963300	.99988710
2	.89747080	.64346410	.84197960	.93525520	.97486810	.99063060	.99668220	.99881650
3	.02666050	.37240100	.63844500	.81586680	.91402850	.96239460	.98438470	.99378960
4	.08431470	.17509660	.41392740	.63844240	.79981490	.89811270	.95153820	.97819910
5	.00494940	.06839120	.22991550	.44255360	.64052540	.78938050	.88600360	.94827290
6	.00084160	.02866030	.11040270	.27111830	.46446860	.64363300	.78244860	.87656870
7	.00012240	.00648340	.04633390	.14731650	.30384530	.48238050	.64779510	.77776690
8	.00001550	.00162560	.01717750	.07141420	.17947060	.33093060	.49766950	.65128670
9	.00000170	.00036160	.00568020	.03109110	.09600190	.20767610	.35400070	.51099580
10	.00000020	.00007210	.00168970	.01223630	.04670170	.11938750	.23867980	.37411830
11		.00001300	.00045560	.00438020	.02075120	.06303300	.14136300	.25500330
12		.00000210	.00011210	.00143410	.00846330	.03068920	.07950330	.16199010
13		.00000030	.00002530	.00043160	.00318040	.01537830	.04147040	.09577080
14			.00000530	.00012000	.00110570	.00574610	.02012880	.05288560
15			.00000100	.00003090	.00035690	.00282880	.00919060	.02786330
16			.00000020	.00000740	.00010730	.00068610	.00384680	.01316860
17				.00000170	.00003020	.00027880	.00158870	.00596010
18				.00000030	.00000790	.00008660	.00056600	.00254280
19				.00000010	.00000200	.00002880	.00019800	.00102040
20					.00000050	.00000870	.00006530	.00038640
21					.00000010	.00000250	.00002030	.00013830
22						.00000060	.00000660	.00004660
23						.00000010	.00000170	.00001510
24							.00000040	.00000460
25							.00000010	.00000130
26								.00000040
27								.00000010

r\p	.09	.10	.11	.12	.13	.14	.15	.16
1	.99996570	.99998970	.99999700	.99999910	.99999970	.99999990	1.00000000	1.00000000
2	.99955570	.99986510	.99995590	.99998590	.99999560	.99999860	.99999960	.99999990
3	.99762000	.99911730	.99966220	.99988870	.99996200	.99999730	.99999950	.99999870
4	.99065050	.99613390	.99847550	.99941570	.99978290	.99992170	.99997850	.99999060
5	.97238450	.98742840	.99452320	.99770680	.99907400	.99963840	.99988630	.99997490
6	.93444730	.96706880	.98426500	.99281290	.99684930	.99867010	.99945610	.99978640
7	.86941810	.92785770	.96288860	.98124560	.99100730	.99593770	.99821890	.99924700
8	.77477690	.86377080	.92323210	.95803580	.97841850	.98939270	.99500130	.99773890
9	.65554250	.77899360	.85593400	.91766250	.95428820	.97560810	.98771610	.99406360
10	.52829660	.65969080	.77198450	.85592970	.91980840	.95099080	.97348410	.98681550
11	.39196360	.53386520	.66401630	.77172130	.85333930	.91059040	.94812870	.97186670
12	.27535650	.40804030	.54391680	.66037470	.77189780	.85139920	.90793810	.94564010
13	.18117390	.29386580	.42869290	.55328410	.67274710	.77270690	.85008510	.90377650
14	.11167140	.19920830	.31089860	.43618150	.56208040	.67712190	.77376850	.84918060
15	.06455360	.12704840	.21615160	.32668290	.44870400	.57042840	.68149170	.77518100
16	.03501210	.07633730	.14198640	.23211590	.34140160	.46041430	.57833870	.68885170
17	.01788720	.04328080	.08813320	.15639490	.24720360	.35520310	.47143410	.58595510
18	.00857570	.02307010	.05172100	.09988300	.17020200	.26150620	.36822050	.48418610
19	.00388390	.01163470	.02871900	.06044740	.11133770	.18355460	.27851060	.38905160
20	.00166140	.00554890	.01510280	.03472100	.06930640	.12276860	.19641840	.30807040
21	.00067230	.00250590	.00752970	.01893440	.04100630	.07883500	.13398150	.23888700
22	.00025780	.00107300	.00356290	.00981090	.02300450	.04751430	.08718460	.17885780
23	.00009370	.00043620	.00160170	.00483450	.01237260	.02751020	.05419390	.12961840
24	.00003240	.00016850	.00066490	.00225760	.00631800	.01519220	.03211780	.08610880
25	.00001060	.00006300	.00027880	.00101330	.00307620	.00800670	.01884630	.05370340
26	.00000330	.00002170	.00010820	.00043180	.00142920	.00402960	.00989090	.03151160
27	.00000100	.00000720	.00004000	.00017560	.00063410	.00193780	.00512780	.01795960
28	.00000030	.00000230	.00001410	.00006880	.00026880	.00089110	.00254300	.00963640
29	.00000010	.00000070	.00000480	.00002530	.00010900	.00039210	.00121740	.00498650
30		.00000020	.00000150	.00000900	.00004230	.00016850	.00054910	.00250660
31		.00000010	.00000050	.00000310	.00001570	.00006660	.00023940	.00122540
32			.00000010	.00000100	.00000560	.00002580	.00010000	.00057340
33				.00000030	.00000190	.00000960	.00004010	.00026480
34				.00000010	.00000060	.00000340	.00001540	.00011970
35					.00000020	.00000120	.00000570	.00005380
36					.00000010	.00000040	.00000200	.00002390
37						.00000010	.00000070	.00001030
38							.00000020	.00000440
39							.00000010	.00000180
40								.00000070

r\p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999960	.99999990	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999690	.99999910	.99999970	.99999990	1.00000000	1.00000000	1.00000000	1.00000000
5	.99996810	.99999730	.99999790	.99999930	.99999980	1.00000000	1.00000000	1.00000000
6	.99991840	.99996980	.99998910	.99999620	.99999870	.99999960	.99999990	1.00000000
7	.99969240	.99987840	.99995340	.99998270	.99999370	.99999780	.99999930	.99999980
8	.99901120	.99958320	.99983010	.99993290	.99997430	.99999050	.99999680	.99999880
9	.99723280	.99875700	.99946140	.99977450	.99990860	.99996410	.99998640	.99999500
10	.99314330	.99674900	.99893290	.99971850	.99988080	.99995910	.99998510	.99999410
11	.98476840	.99225450	.99621400	.99821810	.99919130	.99864560	.99984990	.99993850
12	.96933040	.98342860	.99140760	.99571690	.99794430	.99504870	.99957500	.99981660
13	.94150740	.96760670	.98220030	.99061030	.99532720	.99767370	.99890460	.99950220
14	.90404280	.94149200	.96608520	.98108450	.98988780	.99478000	.99741080	.99887610
15	.84861590	.90268450	.94016460	.96475450	.98000800	.98918350	.99434950	.99715710
16	.77571670	.84845450	.90165710	.93889870	.96360330	.97918620	.98855930	.99394060
17	.69019940	.77357770	.84859040	.90092300	.93787050	.96262010	.97639880	.98779610
18	.59325840	.69453340	.78049400	.84898560	.90044900	.93705900	.96179430	.97771280
19	.49177530	.60303070	.69888530	.78262110	.84960820	.90021010	.93644510	.96111580
20	.39322280	.50124230	.60713290	.70315840	.78487920	.85043190	.90018000	.93601160
21	.30046650	.40338580	.51031720	.61376290	.70745010	.78785180	.85143410	.90033870
22	.22081810	.31214850	.41407070	.51904620	.62021990	.71172080	.78972540	.85259560

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 109

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
23	.1555639	.2324133	.3237653	.4243295	.5274687	.6265234	.7159956	.7988887
24	.1050002	.1660400	.2436392	.3347604	.4342071	.5356186	.6326904	.7202515
25	.0679036	.1138331	.1762905	.2545215	.3483785	.4437486	.5435251	.6387357
26	.0420644	.0748684	.1225778	.1863184	.2650649	.3556359	.4529709	.5512136
27	.0849660	.0472349	.0818725	.1312313	.1961313	.2753494	.3655815	.4619197
28	.0142004	.0285879	.0525207	.0888958	.1397859	.2057372	.2853386	.3758367
29	.0077489	.0166005	.0323575	.0579002	.0959222	.1482370	.2151446	.2950713
30	.0040486	.0092508	.0191472	.0362567	.0633546	.1029384	.1565816	.2243638
31	.0020309	.0049486	.0108639	.0218277	.0402687	.0688677	.1099340	.1648187
32	.0009777	.0025419	.0059444	.0126351	.0244899	.0443785	.0744855	.1169005
33	.0004519	.0012542	.0031302	.0070333	.0144969	.0275424	.0488729	.0800160
34	.0002006	.0005946	.0015744	.0037650	.0082118	.0164619	.0305535	.0528380
35	.0000856	.0002710	.0007639	.0019355	.0044773	.0094761	.0185225	.0336535
36	.0000351	.0001187	.0003555	.0009612	.0023500	.0052539	.0108210	.0206715
37	.0000138	.0000503	.0001601	.0004585	.0011876	.0028050	.0060936	.0122446
38	.0000053	.0000203	.0000682	.0002106	.0005780	.0014430	.0033072	.0069943
39	.0000019	.0000079	.0000280	.0000931	.0002710	.0007158	.0017501	.0038528
40	.0000007	.0000030	.0000111	.0000397	.0001224	.0003420	.0008726	.0020468
41	.0000002	.0000011	.0000045	.0000163	.0000533	.0001575	.0004243	.0010447
42	.0000001	.0000004	.0000017	.0000061	.0000223	.0000699	.0001989	.0005163
43		.0000001	.0000006	.0000026	.0000090	.0000299	.0000899	.0002471
44			.0000003	.0000009	.0000035	.0000124	.0000392	.0001136
45			.0000001	.0000003	.0000013	.0000049	.0000165	.0000504
46				.0000001	.0000005	.0000019	.0000067	.0000218
47					.0000002	.0000007	.0000026	.0000089
48					.0000001	.0000002	.0000010	.0000036
49						.0000001	.0000004	.0000014
50							.0000001	.0000005
51								.0000002
52								.0000001

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999930	.9999974	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
11	.9999756	.9999906	.9999965	.9999987	.9999996	.9999998	1.0000000	1.0000000
12	.9999234	.9999691	.9999879	.9999954	.9999983	.9999994	.9999998	.9999999
13	.9997814	.9999072	.9999619	.9999849	.9999942	.9999978	.9999992	.9999997
14	.9994383	.9997451	.9998902	.9999543	.9999816	.9999938	.9999973	.9999990
15	.9986210	.9993546	.9997083	.9998726	.9999462	.9999781	.9999913	.9999967
16	.9969169	.9984816	.9992823	.9996716	.9998548	.9999380	.9999744	.9999896
17	.9935796	.9966918	.9983565	.9992123	.9996355	.9998371	.9999297	.9999707
18	.9874939	.9932438	.9964833	.9982351	.9991455	.9996007	.9998198	.9999214
19	.9771258	.9870521	.9929423	.9962929	.9981225	.9990827	.9995675	.9998031
20	.9605731	.9766337	.9866694	.9926758	.9961212	.9980195	.9990245	.9995363
21	.9357441	.9601598	.9762290	.9863444	.9928420	.9959690	.9979267	.9989714
22	.9006681	.9356281	.9598036	.9755103	.9860753	.9919446	.9956365	.9978447
23	.8539008	.9011526	.9356516	.9576754	.9756720	.9850600	.9920801	.9957238
24	.7949320	.8583337	.9017780	.9350036	.9595909	.9755098	.9856565	.9919486
25	.7244977	.7976474	.8560838	.9025322	.9360739	.9596148	.9754194	.9855025
26	.6446728	.7207356	.8004279	.8585400	.9034041	.9364536	.9597208	.9753967
27	.5587063	.6505114	.7329663	.8032677	.8602927	.9043841	.9369342	.9599107
28	.4706178	.5660230	.6561634	.7371912	.8061617	.8621339	.9054634	.9375092
29	.3846264	.4790881	.5734811	.6619374	.7414115	.8091086	.8640563	.9066342
30	.3045658	.3937735	.4873517	.5801962	.6675414	.7456284	.8120956	.8660534
31	.2334007	.3138392	.4026900	.4954275	.5870821	.6730830	.7498438	.8151284
32	.1729486	.2428676	.3229073	.4114204	.5033527	.5938514	.6785687	.7543571
33	.1230313	.1809724	.2509727	.3317848	.4199519	.5110086	.6005154	.6840040
34	.0856289	.1307213	.1888521	.2595247	.3404857	.4283139	.5186914	.6070346
35	.0571644	.0912555	.1375669	.1967103	.2679335	.3490228	.4365186	.5261719
36	.0368326	.0615418	.0968883	.1443630	.2044302	.2762044	.3574082	.4445793
37	.0229016	.0400820	.0659615	.1025211	.1511140	.2120550	.2843188	.3656532
38	.0137397	.0252058	.0433932	.0704156	.1081483	.1578127	.2165805	.2923736
39	.0079533	.0153025	.0275776	.0467590	.0748974	.1137664	.1644606	.2270345
40	.0044419	.0089680	.0169283	.0300106	.0501721	.0794006	.1193703	.1710577
41	.0023935	.0050731	.0100354	.0186124	.0324987	.0536262	.0839200	.1249592
42	.0012445	.0027700	.0057449	.0111526	.0203500	.0350364	.0571154	.0884506
43	.0006243	.0014599	.0031757	.0064557	.0123164	.0221373	.0376181	.0606348
44	.0003022	.0007427	.0016950	.0036096	.0072035	.0135236	.0239693	.0402390
45	.0001412	.0003647	.0008735	.0019494	.0040709	.0079862	.0147711	.0258419
46	.0000637	.0001729	.0004347	.0010158	.0022287	.0045564	.0086019	.0160857
47	.0000277	.0000791	.0002068	.0005123	.0011725	.0025144	.0050707	.0096483
48	.0000116	.0000349	.0000969	.0002492	.0005974	.0013402	.0028237	.0056066
49	.0000047	.0000149	.0000434	.0001171	.0002941	.0006902	.0015198	.0031499
50	.0000018	.0000061	.0000188	.0000532	.0001398	.0003434	.0007904	.0017107
51	.0000007	.0000024	.0000078	.0000233	.0000642	.0001651	.0003979	.0008980
52	.0000003	.0000009	.0000032	.0000098	.0000285	.0000766	.0001939	.0004355
53	.0000001	.0000003	.0000012	.0000040	.0000122	.0000344	.0000905	.0002033
54		.0000001	.0000005	.0000016	.0000050	.0000149	.0000410	.0001057
55			.0000002	.0000006	.0000020	.0000062	.0000179	.0000484
56			.0000001	.0000002	.0000008	.0000025	.0000076	.0000214
57				.0000001	.0000003	.0000010	.0000031	.0000091
58					.0000001	.0000004	.0000012	.0000038
59						.0000001	.0000005	.0000015
60							.0000002	.0000006
61							.0000001	.0000002
62								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 109

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999988	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999960	.9999985	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
17	.9999882	.9999954	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000
18	.9999669	.9999865	.9999947	.9999980	.9999993	.9999997	.9999999	1.0000000
19	.9999134	.9999632	.9999849	.9999940	.9999977	.9999992	.9999997	.9999999
20	.9997872	.9999058	.9999597	.9999833	.9999934	.9999974	.9999990	.9999997
21	.9995076	.9997725	.9998985	.9999563	.9999818	.9999927	.9999972	.9999989
22	.9989238	.9994816	.9997590	.9998919	.9999532	.9999804	.9999921	.9999969
23	.9977736	.9988820	.9994585	.9997469	.9998859	.9999504	.9999792	.9999916
24	.9956308	.9977138	.9988463	.9994385	.9997364	.9998806	.9999479	.9999780
25	.9918490	.9955574	.9976652	.9988168	.9994218	.9997275	.9998762	.9999457
26	.9855157	.9917803	.9955029	.9976278	.9987935	.9994083	.9997203	.9998725
27	.9754377	.9854939	.9917413	.9954671	.9976014	.9987764	.9993983	.9997148
28	.9601788	.9755387	.9855147	.9917308	.9954492	.9975857	.9987654	.9993915
29	.9381687	.9605197	.9756959	.9855759	.9917475	.9954486	.9975805	.9987604
30	.9078893	.9389094	.9609286	.9759059	.9856752	.9917899	.9954645	.9975853
31	.8681194	.9092234	.9397244	.9614008	.9761651	.9858102	.9918568	.9954961
32	.8182012	.8702493	.9106277	.9406082	.9619317	.9764705	.9859789	.9919467
33	.7582713	.8211113	.8743382	.9120997	.9415559	.9625173	.9768188	.9861790
34	.6893968	.7624870	.8244567	.8746822	.9136335	.9425628	.9631537	.9772070
35	.6135682	.6947498	.7667051	.8276352	.8769772	.9152248	.9436245	.9638370
36	.5335359	.6199750	.7000686	.7709268	.8308452	.8793199	.9168692	.9447370
37	.4525082	.5407943	.6263129	.7053577	.7751531	.8340850	.8817071	.9185629
38	.3737685	.4603166	.5479571	.6325893	.7106211	.7793851	.8373533	.8841356
39	.3002864	.3817642	.4680150	.5550335	.6388109	.7158625	.7836236	.8406486
40	.2343971	.3080947	.3896498	.4756134	.5620323	.6449842	.7210857	.7878695
41	.1776045	.2416804	.3158056	.3974342	.4831209	.5689615	.6511151	.7262939
42	.1305289	.1841018	.2488886	.3234261	.4051260	.4905463	.5758888	.6572091
43	.0929888	.1360781	.1905508	.2560260	.3309630	.4127333	.4978978	.5826413
44	.0641790	.0975305	.1416054	.1969529	.2630967	.3384288	.4202639	.5051833
45	.0428941	.0677437	.1020726	.1471099	.2033097	.2701051	.3456118	.4277253
46	.0277512	.0455791	.0713249	.1066125	.1525909	.2096231	.2770554	.3531361
47	.0173741	.0296931	.0482898	.0749189	.1111478	.1580479	.2158951	.2839519
48	.0105231	.0187234	.0316638	.0510223	.0785223	.1156763	.1634810	.2221878
49	.0061646	.0114241	.0201003	.0336598	.0537728	.0821322	.1201965	.1668903
50	.0034921	.0067430	.0123488	.0215017	.0356776	.0565379	.0857456	.1247069
51	.0019125	.0038492	.0073402	.0132950	.0229248	.0377137	.0593144	.0893601
52	.0010125	.0021216	.0042202	.0079546	.0142602	.0243665	.0397650	.0620992
53	.0005180	.0011337	.0023464	.0046040	.0085843	.0152421	.0258240	.0418282
54	.0002561	.0005847	.0012613	.0025771	.0049993	.0092276	.0162382	.0272944
55	.0001223	.0002914	.0006553	.0013947	.0028158	.0054048	.0098826	.0172468
56	.0000565	.0001403	.0003290	.0007296	.0015334	.0030618	.0058192	.0105475
57	.0000252	.0000653	.0001596	.0003688	.0008072	.0016770	.0033141	.0062418
58	.0000108	.0000293	.0000748	.0001801	.0004106	.0008879	.0018248	.0035717
59	.0000045	.0000127	.0000339	.0000853	.0002018	.0004542	.0009712	.0019762
60	.0000018	.0000053	.0000148	.0000387	.0000958	.0002245	.0004994	.0010568
61	.0000007	.0000022	.0000062	.0000170	.0000439	.0001071	.0002481	.0005460
62	.0000003	.0000008	.0000025	.0000072	.0000194	.0000494	.0001190	.0002724
63	.0000001	.0000003	.0000010	.0000030	.0000083	.0000220	.0000551	.0001318
64		.0000001	.0000004	.0000012	.0000034	.0000094	.0000246	.0000610
65			.0000001	.0000004	.0000014	.0000039	.0000106	.0000274
66				.0000002	.0000005	.0000016	.0000044	.0000118
67				.0000001	.0000002	.0000006	.0000018	.0000049
68					.0000001	.0000002	.0000007	.0000020
69						.0000001	.0000003	.0000008
70							.0000001	.0000003
71								.0000001

p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 109$$

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
22	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999967	.9999988	.9999996	.9999998	.9999999	1.0000000	1.0000000	1.0000000
24	.9999911	.9999965	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000
25	.9999771	.9999907	.9999963	.9999986	.9999995	.9999998	.9999999	1.0000000
26	.9999440	.9999763	.9999903	.9999962	.9999986	.9999995	.9999998	.9999999
27	.9998897	.9999427	.9999757	.9999901	.9999961	.9999986	.9999995	.9999998
28	.9997110	.9998678	.9999417	.9999753	.9999899	.9999960	.9999985	.9999995
29	.9993881	.9997090	.9998667	.9999412	.9999751	.9999898	.9999960	.9999985
30	.9987612	.9993878	.9997087	.9998665	.9999411	.9999750	.9999898	.9999960
31	.9975997	.9987677	.9993907	.9997100	.9998675	.9999415	.9999752	.9999899
32	.9955426	.9976232	.9987794	.9993965	.9997100	.9998686	.9999420	.9999755
33	.9920588	.9956031	.9976553	.9987963	.9994051	.9997172	.9998707	.9999432
34	.9864084	.9921898	.9956767	.9976955	.9988176	.9994164	.9997830	.9998736
35	.9776383	.9866650	.9923402	.9957685	.9977432	.9988435	.9994300	.9997300
36	.9645638	.9780910	.9869466	.9925079	.9958595	.9977978	.9988734	.9994459
37	.9458963	.9653307	.9785829	.9872514	.9926914	.9959668	.9978587	.9988069
38	.9203058	.9470980	.9661345	.9791028	.9875773	.9928894	.9960034	.9979233
39	.8866029	.9220838	.9483411	.9669720	.9796492	.9879224	.9931004	.9962084
40	.8439699	.8891063	.9239043	.9496199	.9678403	.9802195	.9886457	.9933232
41	.7921838	.8473160	.8916435	.9257606	.9509320	.9687365	.9808112	.9876624
42	.7314903	.7963873	.8506858	.8942120	.9276503	.9522744	.9696578	.9774321
43	.6632714	.7366778	.8006607	.8540784	.8968097	.9295701	.9536441	.9706015
44	.5894057	.6693071	.7418592	.8049447	.8574928	.8994345	.9315173	.9550382
45	.5124101	.5961888	.6753807	.7470372	.8092401	.8609280	.9020844	.9334893
46	.4351245	.5195655	.6028158	.6813168	.7522143	.8135435	.8643932	.9047573
47	.3604019	.4424686	.5267160	.6094734	.6879996	.7573929	.8178675	.8678574
48	.2907990	.3676149	.4497641	.5338068	.6161068	.6932731	.7625752	.8228004
49	.2286236	.2976009	.3747810	.4570176	.5408690	.6227215	.6998413	.7677634
50	.1748762	.2344848	.3043618	.3819058	.4642353	.5479038	.6293227	.7058077
51	.1293061	.1796391	.2406139	.3110861	.3889949	.4714234	.5549188	.6359153
52	.0929733	.1336933	.1849798	.2467136	.3177781	.3960539	.4785880	.5619198
53	.0646804	.0965838	.1381676	.1902993	.2521866	.3244421	.4030882	.4857351
54	.0439005	.0676823	.1001878	.1426284	.1955984	.2588385	.3310824	.4101038
55	.0287748	.0459789	.0704753	.1037854	.1470752	.2008785	.2648633	.3377035
56	.0182637	.0302636	.0480606	.0732660	.1073743	.1515077	.2061407	.2700730
57	.0112203	.0192884	.0317551	.0501428	.0760519	.1109531	.1559357	.2113865
58	.0066692	.0118992	.0203177	.0332496	.0522229	.0780310	.1145204	.1603292
59	.0038337	.0071019	.0125821	.0213494	.0347433	.0542903	.0816009	.1180749
60	.0021305	.0040990	.0075377	.0132671	.0223810	.0363038	.0563665	.0843597
61	.0011442	.0022870	.0043665	.0079751	.0139522	.0234102	.0377184	.0584249
62	.0005936	.0012329	.0024448	.0046351	.0084135	.0146354	.0244346	.0391945
63	.0002974	.0006420	.0013325	.0026033	.0049035	.0089484	.0153146	.0254517
64	.0001438	.0003237	.0006908	.0014124	.0027617	.0051707	.0092810	.0159878
65	.0000671	.0001566	.0003484	.0007398	.0015021	.0029190	.0054354	.0097089
66	.0000302	.0000733	.0001695	.0003740	.0007886	.0015910	.0030744	.0056963
67	.0000131	.0000331	.0000795	.0001824	.0003995	.0008369	.0016783	.0032270
68	.0000055	.0000144	.0000360	.0000857	.0001951	.0004246	.0008648	.0017642
69	.0000022	.0000060	.0000157	.0000388	.0000919	.0002076	.0004490	.0009301
70	.0000009	.0000024	.0000066	.0000170	.0000417	.0000973	.0002190	.0004727
71	.0000003	.0000009	.0000027	.0000071	.0000182	.0000444	.0001036	.0002314
72	.0000001	.0000004	.0000010	.0000029	.0000076	.0000194	.0000470	.0001090
73		.0000001	.0000004	.0000011	.0000031	.0000081	.0000205	.0000494
74			.0000001	.0000004	.0000012	.0000033	.0000086	.0000215
75				.0000001	.0000004	.0000013	.0000035	.0000090
76				.0000001	.0000002	.0000005	.0000013	.0000036
77					.0000001	.0000002	.0000005	.0000014
78						.0000001	.0000002	.0000005
79							.0000001	.0000002
80								.0000001

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	.9999999	1.0000000
28	.9999998	.9999999
29	.9999995	.9999998
30	.9999985	.9999995
31	.9999961	.9999985
32	.9999901	.9999961
33	.9999761	.9999903
34	.9999446	.9999767
35	.9998772	.9999463

x	.49	.50
36	.9907382	.9928813
37	.9944638	.9957475
38	.9969437	.9974835
39	.9979969	.9985034
40	.9963408	.9980789
41	.9938563	.9964796
42	.9890537	.9937982
43	.9820499	.9894568
44	.9715649	.9826923
45	.9564543	.9725456
46	.9354636	.9578622
47	.9074513	.9374977
48	.8713496	.9101645
49	.8265457	.8749590
50	.7729594	.8309073
51	.7111761	.7781653
52	.6425043	.7171499
53	.5689185	.6490944
54	.4926705	.5753036
55	.4171045	.5000000
56	.3443097	.4240974
57	.2768675	.3509056
58	.2166173	.2828501
59	.1647182	.2218348
60	.1216155	.1690927
61	.0871058	.1251410
62	.0604709	.0898355
63	.0406595	.0625023
64	.0264501	.0421108
65	.0166589	.0274544
66	.0101302	.0173077
67	.0059532	.0105432
68	.0033760	.0062018
69	.0018473	.0035204
70	.0009744	.0019271
71	.0004952	.0010166
72	.0002423	.0005105
73	.0001141	.0002525
74	.0000527	.0001187
75	.0000235	.0000537
76	.0000094	.0000233
77	.0000038	.0000097
78	.0000014	.0000039
79	.0000005	.0000015
80	.0000002	.0000005
81	.0000001	.0000002
82		.0000001

$$B(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 110

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.6688669	.8916402	.9649336	.9907841	.9964552	.9988932	.9996587	.9998961
2	.3011524	.6413834	.8456357	.9373777	.9759394	.9911222	.9969330	.9989028
3	.0986686	.3778223	.6445510	.8206423	.9170645	.9640088	.9852414	.9941918
4	.0250581	.1790427	.4206629	.6455393	.8055253	.9019696	.9538318	.9794463
5	.0051430	.0705253	.2354359	.4503724	.6804899	.7959044	.8905906	.9451470
6	.0008827	.0235749	.1139881	.2779750	.4732714	.6523779	.7896767	.8819170
7	.0001296	.0068069	.0482560	.1522686	.3118860	.4930557	.6567534	.7856975
8	.0000166	.0017237	.0180522	.0744503	.1856098	.3400176	.5081059	.6613890
9	.0000019	.0003868	.0060251	.0327040	.1001753	.2150714	.3640547	.5222175
10	.0000002	.0000778	.0018095	.0129905	.0491667	.1246848	.2411723	.3850630
11		.0000142	.0004926	.0046944	.0220516	.0664143	.1477552	.2646056
12		.0000023	.0001284	.0015819	.0090778	.0326016	.0858355	.1693883
13		.0000004	.0000279	.0004717	.0033445	.0147960	.0441401	.1011700
14			.0000059	.0001324	.0011094	.0062303	.0216177	.0562900
15			.0000011	.0000345	.0003944	.0024393	.0098721	.0293108
16			.0000002	.0000084	.0001190	.0008914	.0042140	.0142962
17				.0000019	.0000340	.0003048	.0016854	.0065441
18				.0000004	.0000091	.0000978	.0006330	.0028168
19				.0000001	.0000023	.0000295	.0002337	.0011429
20					.0000005	.0000084	.0000746	.0004371
21					.0000001	.0000022	.0000235	.0001581
22						.0000006	.0000070	.0000542
23						.0000001	.0000020	.0000176
24							.0000005	.0000054
25							.0000001	.0000016
26								.0000004
27								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999688	.9999907	.9999973	.9999992	.9999998	.9999999	1.0000000	1.0000000
2	.9996200	.9998775	.9999605	.9999875	.9999961	.9999988	.9999996	.9999999
3	.9977978	.9991921	.9997123	.9999003	.9999664	.9999887	.9999964	.9999989
4	.9912778	.9964503	.9986002	.9994725	.9998062	.9999309	.9999760	.9999919
5	.9740284	.9883089	.9949579	.9979119	.9994661	.9998796	.9999563	.9999853
6	.9378616	.9691048	.9853934	.9934008	.9971385	.9988056	.9995188	.9998125
7	.8752658	.9317788	.9647060	.9826337	.9918364	.9963203	.9984048	.9993333
8	.7832869	.8701615	.9267182	.9608210	.9800654	.9903090	.9954839	.9979770
9	.6661661	.7880144	.8662685	.9235249	.9574199	.9777100	.9888475	.9946511
10	.5348878	.6710144	.7815936	.8633401	.9190700	.9544652	.9755747	.9874713
11	.4037538	.5464477	.6750228	.7818263	.8611925	.9162465	.9519179	.9736565
12	.2856511	.4206228	.5571278	.6807763	.7885710	.8596859	.9139658	.9497403
13	.1896503	.3053833	.4360275	.5670950	.6856497	.7837239	.8507120	.9181547
14	.1179266	.2066741	.3231960	.4502338	.5764740	.6905038	.7852070	.8581855
15	.0687785	.1343004	.2265738	.3398227	.4634440	.5853603	.6955392	.7669810
16	.0376693	.0814124	.1501446	.2434640	.3535509	.4758155	.5936887	.7001148
17	.0194013	.0465210	.0940571	.1654462	.2594494	.3699327	.4874728	.6019396
18	.0094110	.0250845	.0557263	.1066200	.1802122	.2746237	.3856950	.4965172
19	.0043061	.0127783	.0313498	.0651743	.1190388	.1944608	.2890703	.3967355
20	.0018615	.0061594	.0166005	.0378082	.0747777	.1312724	.2082162	.3088625
21	.0007614	.0028102	.0083627	.0208208	.0446853	.0844688	.1432951	.2215059
22	.0002951	.0012163	.0039998	.0109058	.0254143	.0518158	.0941952	.1550924
23	.0001085	.0004999	.0018175	.0054317	.0137651	.0303108	.0591425	.1039166
24	.0000379	.0001953	.0007857	.0025757	.0071051	.0169167	.0354752	.0666308
25	.0000126	.0000726	.0003235	.0011639	.0034976	.0090126	.0203352	.0406609
26	.0000040	.0000257	.0001269	.0005016	.0016433	.0045863	.0111442	.0239953
27	.0000013	.0000087	.0000475	.0002064	.0007374	.0022307	.0058418	.0134879
28	.0000003	.0000028	.0000170	.0000811	.0003163	.0010376	.0029306	.0072613
29	.0000001	.0000009	.0000058	.0000305	.0001308	.0004619	.0014078	.0037457
30		.0000003	.0000019	.0000110	.0000510	.0001969	.0006479	.0018621
31		.0000001	.0000006	.0000038	.0000198	.0000804	.0002850	.0008783
32			.0000002	.0000013	.0000069	.0000315	.0001304	.0003997
33			.0000001	.0000004	.0000024	.0000116	.0000481	.0001746
34				.0000001	.0000009	.0000043	.0000191	.0000738
35					.0000003	.0000015	.0000072	.0000295
36					.0000001	.0000005	.0000026	.0000114
37						.0000002	.0000009	.0000043
38							.0000003	.0000015
39							.0000001	.0000005
40								.0000003
41								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999973	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999846	.9999947	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000
6	.9999292	.9999741	.9999908	.9999968	.9999989	.9999996	.9999999	1.0000000
7	.9997308	.9998948	.9999602	.9999854	.9999948	.9999982	.9999994	.9999998
8	.9991270	.9996363	.9998535	.9999429	.9999794	.9999921	.9999972	.9999990
9	.9975347	.9989057	.9995314	.9998062	.9999299	.9999699	.9999897	.9999959
10	.9938384	.9970882	.9986752	.9994187	.9997537	.9998991	.9999600	.9999846
11	.9861928	.9930586	.9964466	.9984405	.9993008	.9996971	.9998734	.9999488
12	.9719549	.9850173	.9923208	.9962172	.9982062	.9991800	.9996383	.9998458
13	.9478973	.9704547	.9839497	.9916316	.9958087	.9979762	.9990568	.9995776
14	.9107518	.9463567	.9691470	.9829827	.9909954	.9954166	.9977539	.9987391
15	.8580305	.9097059	.9450095	.9680205	.9821359	.9904147	.9950535	.9975421
16	.7809396	.8582159	.9089735	.9440698	.9670615	.9813856	.9898910	.9947187
17	.7049074	.7911064	.8586731	.9085101	.9432744	.9662647	.9807352	.9894847
18	.6097384	.7096506	.7934323	.8593730	.9083062	.9426824	.9656132	.9801808
19	.5090274	.6172678	.7143640	.7958940	.8602850	.9083169	.9423754	.9650986
20	.4091467	.5190740	.6245597	.7190509	.7994723	.8613831	.9085210	.9420366
21	.3169651	.4209999	.5287122	.6316420	.7287102	.8011514	.8626456	.9089002

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 110

N	.17	.18	.19	.20	.21	.22	.23	.24
22	.2343585	.3287352	.4323575	.5379895	.6385382	.7283439	.8039184	.8640540
23	.1666571	.2446016	.3409233	.4432728	.5469465	.6452686	.7329534	.8067623
24	.1136027	.1779878	.2588632	.3526742	.4537921	.5556177	.6518506	.7375404
25	.0742113	.1232309	.1890868	.2705693	.3640278	.4639554	.5640351	.6582995
26	.0464571	.0818821	.1327832	.1999590	.2819446	.3750194	.4737978	.5722189
27	.0277724	.0522089	.0893065	.1422487	.2106114	.2930124	.3856809	.4833502
28	.0160306	.0319444	.0580975	.0973629	.1516185	.2210518	.3037944	.3960406
29	.0088406	.0187583	.0361885	.0640993	.1051336	.1608870	.2312892	.3143110
30	.0046766	.0105738	.0216572	.0405854	.0701938	.1129041	.1700511	.2413328
31	.0023739	.0057230	.0124539	.0247135	.0451168	.0763633	.1206629	.1791093
32	.0011568	.0029751	.0068829	.0144736	.0279141	.0497661	.0825924	.1284008
33	.0005413	.0014860	.0036568	.0081536	.0166248	.0312462	.0545186	.0888683
34	.0002434	.0007133	.0018681	.0044191	.0095317	.0188995	.0346978	.0593607
35	.0001052	.0003292	.0009179	.0023047	.0052615	.0110129	.0212896	.0382578
36	.0000437	.0001461	.0004339	.0011569	.0027967	.0061828	.0125930	.0237872
37	.0000175	.0000624	.0001974	.0005591	.0014317	.0033445	.0071811	.0142670
38	.0000067	.0000256	.0000865	.0002602	.0007060	.0017435	.0039480	.0082543
39	.0000025	.0000101	.0000365	.0001166	.0003355	.0008760	.0020928	.0046067
40	.0000009	.0000039	.0000148	.0000504	.0001536	.0004242	.0010698	.0024802
41	.0000003	.0000014	.0000058	.0000210	.0000678	.0001981	.0005274	.0012882
42	.0000001	.0000005	.0000022	.0000084	.0000288	.0000892	.0002508	.0006456
43		.0000002	.0000008	.0000032	.0000118	.0000387	.0001150	.0003122
44		.0000001	.0000003	.0000012	.0000047	.0000162	.0000509	.0001456
45			.0000001	.0000004	.0000018	.0000066	.0000217	.0000656
46				.0000002	.0000007	.0000026	.0000090	.0000285
47				.0000001	.0000002	.0000010	.0000036	.0000120
48					.0000001	.0000003	.0000014	.0000048
49						.0000001	.0000005	.0000019
50							.0000002	.0000007
51							.0000001	.0000003
52								.0000001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999985	.9999998	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999943	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
11	.9999799	.9999924	.9999972	.9999990	.9999997	.9999999	1.0000000	1.0000000
12	.9999365	.9999747	.9999902	.9999963	.9999987	.9999995	.9999998	.9999999
13	.9998169	.9999233	.9999689	.9999878	.9999954	.9999983	.9999994	.9999998
14	.9995166	.9997873	.9999096	.9999628	.9999852	.9999943	.9999979	.9999992
15	.9988229	.9994561	.9997574	.9998955	.9999565	.9999825	.9999932	.9999974
16	.9973429	.9987115	.9993973	.9997279	.9998813	.9999500	.9999796	.9999920
17	.9944139	.9971582	.9986065	.9993409	.9996991	.9998674	.9999435	.9999768
18	.9890153	.9941403	.9969891	.9985087	.9992876	.9996716	.9998539	.9999378
19	.9797176	.9886619	.9938984	.9968367	.9984192	.9992381	.9996457	.9998410
20	.9647113	.9793417	.9883631	.9936882	.9967016	.9983384	.9991928	.9996217
21	.9419513	.9644420	.9790479	.9881171	.9935095	.9965841	.9982670	.9991522
22	.9094371	.9420061	.9642822	.9784319	.9879219	.9933619	.9964844	.9983058
23	.8655922	.9101162	.9421889	.9642241	.9786800	.9877754	.9938446	.9964025
24	.8096741	.8672466	.9109239	.9424888	.9642601	.9786149	.9896754	.9931566
25	.7421063	.8126458	.8690053	.9118482	.9428962	.9643833	.9786053	.9876196
26	.6646286	.7466527	.8156710	.8708578	.9128784	.9434019	.9645873	.9786561
27	.5801978	.6708497	.7511810	.8184739	.8727950	.9140050	.9439880	.9648668
28	.4926399	.5879900	.6769732	.7556926	.8218597	.8748090	.9158194	.9446770
29	.4061244	.5016912	.5956134	.6830084	.7601890	.8250141	.8768925	.9165139
30	.3245810	.4159553	.5105256	.6030837	.6889637	.7646716	.8282034	.8790398
31	.2511920	.3346321	.4255545	.5191627	.6104153	.6948466	.7691415	.8314844
32	.1880616	.2604762	.3444508	.4349410	.5276200	.6176206	.7006638	.7736000
33	.1361106	.1969692	.2703950	.3540822	.4441323	.5359138	.6247119	.7064815
34	.0951795	.1437866	.2056539	.2797575	.3635309	.4531445	.5440568	.6316990
35	.0642805	.1015166	.1514247	.2142984	.2889789	.3720101	.4619988	.5580640
36	.0419196	.0692674	.1078715	.1590217	.2224458	.2980499	.3819324	.4706890
37	.0263843	.0456615	.0743117	.1142374	.1665757	.2313998	.3069096	.3909096
38	.0160308	.0290736	.0494867	.0794052	.1206086	.1740854	.2396642	.3158231
39	.0093999	.0178774	.0318478	.0533888	.0845402	.1269803	.1815502	.2479430
40	.0053197	.0106149	.0198036	.0347001	.0573424	.0897103	.1333487	.1889703
41	.0029056	.0060857	.0118965	.0218039	.0376240	.0613586	.0949098	.1397107
42	.0015317	.0033688	.0069034	.0132413	.0238733	.0406133	.0654950	.1001335
43	.0007794	.0018006	.0038694	.0077708	.0146468	.0260070	.0436624	.0695359
44	.0003828	.0009298	.0020948	.0044066	.0086862	.0161077	.0282004	.0467656
45	.0001815	.0004630	.0010953	.0024145	.0049793	.0096475	.0176285	.0304490
46	.0000839	.0002228	.0005538	.0012780	.0027587	.0055867	.0106524	.0191873
47	.0000377	.0001035	.0002698	.0006838	.0014770	.0031276	.0062874	.0116987
48	.0000167	.0000464	.0001271	.0003529	.0007642	.0016985	.0035203	.0069000
49	.0000064	.0000201	.0000578	.0001741	.0003820	.0008858	.0019840	.0039361
50	.0000026	.0000084	.0000254	.0000716	.0001845	.0004474	.0010165	.0021718
51	.0000010	.0000034	.0000108	.0000316	.0000861	.0002186	.0005191	.0011880
52	.0000004	.0000013	.0000044	.0000136	.0000388	.0001038	.0002562	.0006071
53	.0000001	.0000005	.0000018	.0000057	.0000169	.0000470	.0001228	.0003076
54		.0000002	.0000007	.0000023	.0000071	.0000207	.0000563	.0001533
55		.0000001	.0000002	.0000009	.0000029	.0000088	.0000251	.0000667
56			.0000001	.0000003	.0000011	.0000036	.0000108	.0000300
57				.0000001	.0000004	.0000014	.0000045	.0000130
58					.0000002	.0000006	.0000018	.0000058
59					.0000001	.0000002	.0000007	.0000022
60						.0000001	.0000003	.0000009
61							.0000001	.0000003
62								.0000001

$$I(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 110$$

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	.99999927	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	.99999991	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	.99999969	.99999989	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
17	.99999908	.99999965	.99999987	.99999995	.99999998	.99999999	1.00000000	1.00000000
18	.99999739	.99999895	.99999959	.99999985	.99999995	.99999998	.99999999	1.00000000
19	.99999311	.99999712	.99999883	.99999955	.99999983	.99999994	.99999998	.99999999
20	.99998389	.99999253	.99999685	.99999872	.99999950	.99999981	.99999993	.99999998
21	.99995999	.99998178	.99999199	.99999661	.99999861	.99999945	.99999979	.99999992
22	.99991164	.99995805	.99998078	.99999151	.99999638	.99999851	.99999941	.99999977
23	.99981532	.99990859	.99995637	.99997991	.99999108	.99999618	.99999843	.99999937
24	.99963380	.99981110	.99990606	.99995495	.99997917	.99999071	.99999601	.99999835
25	.99930970	.99958906	.99980786	.99990406	.99995382	.99997857	.99999041	.99999587
26	.99876057	.99930645	.99962597	.99980559	.99990260	.99995296	.99997811	.99999018
27	.99787635	.99876312	.99930579	.99963449	.99980485	.99990165	.99995038	.99997749
28	.99658148	.99789235	.99876940	.99930758	.99963455	.99980382	.99990182	.99995808
29	.99454300	.99656262	.99791325	.99877917	.99931171	.99963807	.99980426	.99990189
30	.99170815	.99459569	.99660972	.99793871	.99879119	.99937802	.99963897	.99980853
31	.98812435	.99193160	.99471459	.99666826	.99796838	.99880825	.99932638	.99963318
32	.98346748	.98835001	.99208115	.99480935	.99671981	.99800196	.99888713	.99933665
33	.97804823	.98379508	.98858045	.99223627	.99490956	.99678198	.99831912	.99884061
34	.97212354	.97824872	.98412502	.98881525	.99232648	.99501455	.99748831	.99807958
35	.96585916	.97177804	.97869181	.98445781	.98905401	.99256132	.99619409	.99691650
36	.95994666	.96453984	.97339914	.97913418	.98479140	.98929638	.99373038	.99383770
37	.94792474	.95677157	.96521274	.97289626	.97957592	.98512743	.98984803	.98990388
38	.93975586	.94876790	.95753816	.96587859	.97344979	.98001710	.98466318	.98479065
39	.93245355	.94004730	.94959947	.95809536	.96653807	.97400011	.97845781	.97880434
40	.92561406	.93134493	.94170770	.95048046	.95904404	.96719180	.97454755	.97089818
41	.91963461	.92446613	.93416511	.94255787	.95103101	.95978501	.96784036	.96309841
42	.91460638	.92036785	.92730096	.93500690	.94339041	.95203441	.96051904	.95648430
43	.91053770	.91524661	.92109690	.92802900	.93644033	.94483022	.95388909	.95184684
44	.90736863	.91106367	.91567363	.92182198	.93033078	.93866606	.94858411	.94861665
45	.90499181	.90778712	.91159091	.91650534	.92543089	.93380658	.94488481	.94587088
46	.90327493	.90531151	.90820866	.91211916	.92137868	.93026068	.94238704	.94389718
47	.90207986	.90350943	.90563501	.90863286	.91864017	.92774465	.94097476	.94316886
48	.90127840	.90224831	.90374029	.90596450	.91695937	.92617776	.94039878	.94288178
49	.90076089	.90139058	.90241475	.90399103	.91608301	.92548780	.94039228	.94301853
50	.90043740	.90083346	.90150618	.90258787	.91583728	.92548637	.94091815	.94383808
51	.90024338	.90048331	.90090932	.90162494	.91602493	.92596842	.94196498	.94534988
52	.90013095	.90027110	.90053133	.90098771	.91646661	.92694385	.94373898	.94730035
53	.90006812	.90014706	.90030022	.90058108	.91706844	.92817094	.94631610	.94999366
54	.90003486	.90007714	.90016411	.90033068	.91763257	.92955131	.94999767	.95331079
55	.90001665	.90003911	.90008674	.90018803	.91836237	.93068575	.95183613	.95718655
56	.90000782	.90001917	.90004438	.90009690	.91920079	.93239881	.95474040	.96138870
57	.90000355	.90000908	.90002169	.90004987	.92010759	.93420032	.95848911	.96579637
58	.90000156	.90000418	.90001045	.90002481	.92095574	.93611877	.96284056	.97046398
59	.90000066	.90000184	.90000482	.90001198	.92163791	.93806196	.96813641	.97526144
60	.90000027	.90000078	.90000215	.90000554	.92201350	.93983118	.97366834	.98014846
61	.90000011	.90000033	.90000092	.90000248	.92200631	.94101517	.97893461	.98475303
62	.90000004	.90000013	.90000038	.90000106	.92160885	.94131693	.98301693	.98833818
63	.90000001	.90000005	.90000015	.90000045	.92081184	.94060800	.98503384	.99018777
64	.90000001	.90000002	.90000006	.90000018	.91980059	.93910148	.98503365	.99008891
65		.90000001	.90000003	.90000007	.91880921	.93740060	.98361118	.98864408
66			.90000001	.90000003	.91809008	.93604824	.98140468	.98681181
67				.90000001	.91780003	.93540010	.97921888	.98500077
68					.91800001	.93564004	.97777011	.98400038
69						.93680001	.97800004	.98400015
70							.98000008	.98400005
71							.98000001	.98400002
72								.98400001

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 110

c	.41	.42	.43	.44	.45	.46	.47	.48
82	.9999998	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
83	.9999978	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
84	.9999934	.9999975	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
85	.9999808	.9999931	.9999974	.9999990	.9999996	.9999999	1.0000000	1.0000000
86	.9999476	.9999823	.9999929	.9999973	.9999990	.9999996	.9999999	1.0000000
87	.9998008	.9999480	.9999820	.9999928	.9999972	.9999990	.9999996	.9999999
88	.9997761	.9998998	.9999563	.9999818	.9999927	.9999972	.9999990	.9999996
89	.9993805	.9997757	.9998990	.9999562	.9999817	.9999927	.9999978	.9999990
90	.9990188	.9995837	.9997766	.9998994	.9999564	.9999818	.9999987	.9999972
91	.9980789	.9990881	.9993874	.9997788	.9999004	.9999569	.9999951	.9999928
92	.9963860	.9981059	.9990488	.9993344	.9997883	.9999081	.9999577	.9999824
93	.9934068	.9964115	.9981387	.9990603	.9995436	.9997868	.9999043	.9999807
94	.9887248	.9934834	.9966878	.9981798	.9990880	.9995548	.9997284	.9999070
95	.9818305	.9889854	.9937749	.9966130	.9980867	.9991070	.9995677	.9997989
96	.9699219	.9816985	.9889659	.9939399	.9967072	.9982788	.9991350	.9995823
97	.9535500	.9706904	.9821793	.9895642	.9941170	.9968090	.9983356	.9991657
98	.9307958	.9547868	.9714873	.9824882	.9898786	.9943050	.9969178	.9983965
99	.9004196	.9335901	.9559983	.9723096	.9832169	.9902012	.9945084	.9970385
100	.8614494	.9059569	.9344188	.9578548	.9731543	.9837648	.9905481	.9947081
101	.8133007	.8648679	.9055156	.9362888	.9585407	.9740107	.9843238	.9906996
102	.7585500	.8117773	.8689976	.9080935	.9381271	.9598469	.9748998	.9848975
103	.6998411	.7491558	.8251715	.8717372	.9101880	.9400140	.9611805	.9757254
104	.6396906	.6797018	.7747438	.8265575	.8751054	.9132969	.9411169	.9625006
105	.5439783	.6068635	.7039383	.7785165	.8309538	.8786410	.9159178	.9438328
106	.4664116	.5317335	.6339989	.7102338	.7778760	.8353485	.8821027	.9165467
107	.3910308	.4748877	.5594389	.6410045	.7165118	.7832840	.8397898	.8855693
108	.3193368	.3990835	.4828534	.5671010	.6481436	.7227688	.7885626	.8441150
109	.2539385	.3270668	.4070237	.4906056	.5747260	.6551753	.7290068	.7936932
110	.1964356	.2609938	.3346421	.4149550	.4987205	.5823199	.6621844	.7352344
111	.1476848	.2026743	.2690255	.3482468	.4220531	.5066044	.5898886	.6691757
112	.1078888	.1539905	.2089085	.2780373	.3498857	.4307239	.5144635	.5971377
113	.0764038	.1161694	.1589968	.2181516	.2820388	.3573835	.4365731	.5203037
114	.0525059	.0778807	.1165191	.1636036	.2213331	.2890145	.3649851	.4464065
115	.0349764	.0580943	.0838517	.1208763	.1669107	.2278387	.2959863	.3734554
116	.0225733	.0366438	.0574989	.0866945	.1253397	.1742183	.2337403	.3029516
117	.0141081	.0238976	.0387665	.0603170	.0901470	.1296082	.1795868	.2399400
118	.0085358	.0150026	.0258358	.0406026	.0629460	.0936078	.1339809	.1848367
119	.0049963	.0091167	.0169084	.0265655	.0426091	.0655833	.0970731	.1383570
120	.0028288	.0053602	.0097068	.0168833	.0275441	.0448435	.0682267	.1005430
121	.0015486	.0030480	.0057301	.0103036	.0177452	.0293091	.0464830	.0710736
122	.0008193	.0016756	.0032711	.0061047	.0109054	.0186718	.0306780	.0484851
123	.0004188	.0008908	.0018051	.0034973	.0064886	.0115104	.0196010	.0320408
124	.0002068	.0004568	.0009684	.0019364	.0037255	.0068691	.0121168	.0205305
125	.0000985	.0002264	.0004956	.0010358	.0020689	.0039548	.0073428	.0127828
126	.0000453	.0001093	.0002464	.0005350	.0011097	.0022019	.0041840	.0076823
127	.0000201	.0000500	.0001182	.0002667	.0005746	.0011838	.0023346	.0044183
128	.0000086	.0000222	.0000547	.0001283	.0002871	.0006148	.0011575	.0024663
129	.0000035	.0000095	.0000244	.0000595	.0001383	.0003074	.0006536	.0013305
130	.0000014	.0000039	.0000106	.0000266	.0000643	.0001484	.0003675	.0006923
131	.0000005	.0000016	.0000043	.0000114	.0000288	.0000690	.0001582	.0003478
132	.0000002	.0000006	.0000017	.0000047	.0000124	.0000309	.0000736	.0001678
133	.0000001	.0000002	.0000007	.0000019	.0000051	.0000133	.0000330	.0000780
134		.0000001	.0000002	.0000007	.0000020	.0000055	.0000142	.0000349
135			.0000001	.0000003	.0000008	.0000022	.0000059	.0000150
136				.0000001	.0000003	.0000008	.0000023	.0000068
137					.0000001	.0000003	.0000009	.0000025
138						.0000001	.0000003	.0000009
139							.0000001	.0000003
140								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	.9999999	1.0000000
29	.9999996	.9999999
30	.9999990	.9999996
31	.9999973	.9999990
32	.9999930	.9999979
33	.9999859	.9999932
34	.9999600	.9999835
35	.9999109	.9999615

$$B(r,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 110$$

r	.49	.50
36	.9998063	.9999138
37	.9999003	.9999144
38	.9999586	.9999155
39	.9999846	.9999335
40	.9999583	.9999888
41	.9999206	.9999763
42	.9998599	.9999389
43	.9998018	.9998975
44	.9997086	.9998074
45	.9996885	.9997690
46	.9995899	.9996174
47	.9994073	.9994935
48	.9992395	.9993311
49	.9989009	.9989117
50	.9983173	.9982831
51	.9974499	.9974363
52	.9961535	.9961576
53	.9943785	.9943128
54	.9921311	.9919965
55	.9893396	.9891913
56	.9859791	.9858487
57	.9820142	.9819015
58	.9774599	.9773770
59	.9723487	.9723424
60	.9667358	.9667637
61	.9606153	.9606469
62	.9540217	.9540883
63	.9469671	.9469889
64	.9394173	.9393965
65	.9314579	.9314836
66	.9230863	.9230810
67	.9143994	.9143854
68	.9053383	.9053725
69	.8959963	.8960411
70	.8864021	.8863837
71	.8765300	.8764710
72	.8663663	.8663665
73	.8559769	.8559843
74	.8453882	.8453856
75	.8346360	.8346662
76	.8237458	.8237385
77	.8127065	.8127165
78	.8015886	.8015960
79	.7903810	.7903887
80	.7791004	.7791010
81	.7677601	.7677604
82		.7563801

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 111

k \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.67227772	.89388074	.96598856	.98892327	.99663324	.99895596	.99968826	.99990044
2	.30488305	.65332485	.84922146	.93943339	.97695585	.99158864	.99703008	.99898817
3	.10069934	.38332335	.65058515	.82531116	.92000079	.96891108	.98605288	.99456686
4	.02577745	.18301083	.42737995	.65255435	.81110023	.90356968	.95603005	.98062359
5	.00534200	.07269560	.24099277	.45817910	.65634170	.80226830	.89502750	.94769100
6	.00092530	.02451390	.11763150	.28487090	.48203230	.66098550	.79674070	.88697540
7	.00013710	.00714230	.05028800	.15729680	.31995520	.50167500	.66605710	.79339500
8	.00001770	.00182440	.01895830	.07756300	.19199960	.34913990	.51851120	.67133370
9	.00000200	.00041350	.00638590	.03437390	.10445110	.22256320	.37413830	.53335120
10	.00000020	.00008400	.00193590	.01377910	.05171710	.13010800	.24977410	.39603540
11		.00001540	.00053210	.00508630	.02340730	.06991050	.15429440	.27424220
12		.00000260	.00013350	.00167760	.00978650	.03463040	.08830800	.17700020
13		.00000040	.00003070	.00051490	.00372620	.01586440	.04691870	.10653500
14		.00000010	.00000650	.00014600	.00133210	.00674240	.02319430	.05967240
15			.00000130	.00003840	.00043510	.00266660	.01064930	.03146910
16			.00000020	.00000940	.00013350	.00098430	.00461010	.01549740
17				.00000210	.00003830	.00034000	.00186240	.00716430
18				.00000050	.00001030	.00011020	.00070670	.00311500
19				.00000010	.00000260	.00003360	.00025340	.00119760
20					.00000060	.00000960	.00008500	.00043350
21					.00000010	.00000260	.00002700	.00018050
22						.00000070	.00000810	.00006250
23						.00000020	.00000230	.00002050
24							.00000060	.00000640
25							.00000020	.00000190
26								.00000050
27								.00000010

k \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.99997160	.99999170	.99999760	.99999930	.99999980	.99999990	1.00000000	1.00000000
2	.99965960	.99988890	.99997450	.99999220	.99999660	.99999900	.99999970	.99999990
3	.99796860	.99936060	.99973960	.99991080	.99997020	.99999030	.99999690	.99999900
4	.99186460	.99678440	.99879970	.99953380	.99986270	.99995390	.99997910	.99999300
5	.97558090	.98911590	.99535950	.99860990	.99924940	.99971350	.99989400	.99996200
6	.94111660	.97102440	.98644550	.99394160	.99740210	.99892780	.99957300	.99983550
7	.88089890	.93581140	.96699810	.98392570	.99255260	.99666820	.99857190	.99941000
8	.79156490	.87653230	.93089680	.96343850	.98159560	.99115060	.99592200	.99819400
9	.67677070	.79082210	.87289170	.92712050	.96035380	.97947380	.98984300	.99581120
10	.54670290	.68811440	.79090790	.87044220	.92405550	.95771950	.97756560	.98862000
11	.41555590	.55890440	.68751990	.79160800	.86477160	.92152710	.93546640	.97506650
12	.29646240	.43320530	.57019190	.69290930	.79279180	.86760440	.91965860	.95354720
13	.19830840	.31661720	.44934650	.58073600	.69824950	.79435850	.86700010	.91816840
14	.11843810	.21833500	.33560740	.46428710	.59066690	.70355460	.79623200	.86682060
15	.06320180	.14173770	.23720220	.35307210	.47813790	.60008040	.70881450	.79035690
16	.04046910	.08670120	.15855180	.25550270	.36940300	.49115170	.60905430	.71140270
17	.02104530	.05001010	.10028670	.17480840	.27191660	.38475630	.50342680	.61765000
18	.01031010	.02728810	.05999470	.11367920	.19051310	.28796700	.39926000	.51500630
19	.00476560	.01400890	.03394170	.07014760	.12699130	.20568360	.30326370	.41302040
20	.00208150	.00681950	.01821190	.04109210	.08053170	.14013870	.22033450	.31788820
21	.00086040	.00314500	.00936890	.02386630	.04859730	.09102130	.15303330	.23452300
22	.00033700	.00137570	.00447920	.01309650	.02791950	.05638670	.10155080	.16571860
23	.00012530	.00057150	.00205740	.00690860	.01527950	.03332140	.06440040	.11210470
24	.00004430	.00022570	.00089920	.00291840	.00797090	.01879190	.03902530	.07585810
25	.00001490	.00008490	.00037430	.00133330	.00396660	.01011920	.02260620	.04498920
26	.00000480	.00003040	.00014860	.00058110	.00188430	.00520600	.01252290	.02669510
27	.00000150	.00001040	.00005630	.00024180	.00086520	.00256050	.00663710	.01516910
28	.00000040	.00000340	.00002040	.00009610	.00037110	.00120470	.00336730	.00823760
29	.00000010	.00000110	.00000700	.00003660	.00015400	.00055420	.00162680	.00423080
30		.00000030	.00000230	.00001330	.00006120	.00023400	.00076190	.00215510
31		.00000010	.00000070	.00000460	.00002330	.00009670	.00033010	.00103410
32			.00000020	.00000150	.00000850	.00003840	.00014570	.00047630
33			.00000010	.00000050	.00000300	.00001460	.00005990	.00021060
34				.00000020	.00000100	.00000530	.00002360	.00008940
35					.00000030	.00000190	.00000900	.00003870
36					.00000010	.00000060	.00000330	.00001430
37						.00000020	.00000110	.00000540
38						.00000010	.00000040	.00000200
39							.00000010	.00000070
40								.00000020
41								.00000010

k \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999997	.99999992	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999977	.99999923	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
5	.99998967	.99999558	.99999985	.99999995	.99999999	1.00000000	1.00000000	1.00000000
6	.99993386	.99997778	.99999922	.99999973	.99999991	.99999997	.99999999	1.00000000
7	.99976645	.99990091	.99999660	.99999877	.99999957	.99999985	.99999995	.99999998
8	.99922396	.99968828	.99988738	.99995514	.99998619	.99999934	.99999977	.99999992
9	.99778053	.99903772	.99959236	.99986335	.99995342	.99998748	.99999907	.99999966
10	.99446668	.99741154	.99883779	.99949620	.99978901	.99991147	.99996666	.99998873
11	.98749280	.99378390	.99703210	.99863610	.99939849	.99974170	.99989330	.99995740
12	.97437520	.98646470	.99314070	.99666180	.99841360	.99929380	.99964920	.99987050
13	.95319710	.97303750	.98555400	.99255480	.99630980	.99824100	.99919210	.99964200
14	.92170660	.95069430	.97195950	.98471800	.99200550	.99559790	.99805410	.99909240
15	.88699970	.91630300	.94966040	.97101430	.98399640	.99151510	.99567460	.99787740
16	.84066860	.87474040	.91583560	.94886000	.97022870	.98337200	.99107040	.99539630
17	.78191980	.82031860	.86823020	.91562840	.94827010	.96959130	.98284110	.99069530
18	.71259170	.75431260	.80582810	.86920200	.91564510	.94787050	.96909120	.98239930
19	.63261480	.67338960	.72930760	.80856980	.87036980	.91587730	.94764310	.96871830
20	.54611260	.58367480	.64162270	.73441960	.81145290	.87170850	.91628450	.94175150
21	.45318880	.48865330	.54692320	.64912380	.74941030	.81440240	.87319700	.90166530

$$P(r,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 111$$

k	.17	.18	.19	.20	.21	.22	.23	.24
22	.2482485	.3453428	.4506649	.5567300	.6564243	.7443615	.8174857	.8746171
23	.1781663	.2615496	.3508958	.4522162	.5661807	.6635451	.7492754	.8205123
24	.1236219	.1903743	.2744546	.3707940	.4733545	.5753409	.6705043	.7541537
25	.0809079	.1330868	.2023443	.2869903	.3828783	.4841211	.5843311	.6773173
26	.0511753	.0893248	.1434809	.2140811	.2991821	.3945853	.4945519	.5988782
27	.0310321	.0575501	.0978101	.1537908	.2255913	.3110540	.4059478	.5046787
28	.0180437	.0355920	.0640848	.1063401	.1640070	.2368283	.3226283	.4169949
29	.0100629	.0211318	.0403513	.0707520	.1148954	.1741333	.2479654	.3339861
30	.0053845	.0120470	.0244181	.0452882	.0775311	.1234603	.1841359	.2590476
31	.0027654	.0065961	.0143026	.0278879	.0503889	.0844022	.1326222	.1940430
32	.0013637	.0034697	.0079414	.0165216	.0315266	.0556175	.0913487	.1405709
33	.0006459	.0017540	.0042497	.0094176	.0189956	.0353806	.0609756	.0983561
34	.0002940	.0008524	.0021879	.0051660	.0110212	.0216158	.0392566	.0664425
35	.0001286	.0003984	.0010984	.0027276	.0061582	.0127480	.0243735	.0433985
36	.0000541	.0001791	.0005259	.0013865	.0033143	.0072454	.0145938	.0272601
37	.0000219	.0000775	.0002424	.0006786	.0017104	.0039689	.0084858	.0165519
38	.0000085	.0000323	.0001075	.0003199	.0008584	.0020957	.0046916	.0096974
39	.0000032	.0000129	.0000460	.0001453	.0004133	.0010668	.0025195	.0054898
40	.0000011	.0000050	.0000189	.0000636	.0001918	.0005236	.0013051	.0029906
41	.0000004	.0000019	.0000075	.0000268	.0000858	.0002478	.0006521	.0015743
42	.0000001	.0000007	.0000029	.0000109	.0000370	.0001131	.0003144	.0007998
43		.0000002	.0000011	.0000043	.0000154	.0000498	.0001448	.0003922
44		.0000001	.0000004	.0000016	.0000062	.0000212	.0000656	.0001856
45			.0000001	.0000006	.0000024	.0000087	.0000284	.0000848
46				.0000002	.0000009	.0000034	.0000119	.0000374
47				.0000001	.0000003	.0000013	.0000048	.0000159
48					.0000001	.0000005	.0000019	.0000065
49						.0000002	.0000007	.0000026
50						.0000001	.0000003	.0000010
51							.0000001	.0000004
52								.0000001

k	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999954	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
11	.9999835	.9999938	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000
12	.9999473	.9999793	.9999921	.9999971	.9999990	.9999996	.9999999	1.0000000
13	.9998468	.9999367	.9999747	.9999902	.9999963	.9999987	.9999995	.9999998
14	.9995917	.9998837	.9999256	.9999698	.9999882	.9999955	.9999984	.9999994
15	.9989963	.9995428	.9997985	.9999143	.9999648	.9999860	.9999946	.9999980
16	.9977189	.9987951	.9994945	.9997748	.9999031	.9999598	.9999838	.9999937
17	.9951462	.9975680	.9988200	.9994493	.9997520	.9998922	.9999547	.9999816
18	.9903650	.9948849	.9974258	.9987417	.9994070	.9997303	.9998817	.9999499
19	.9820482	.9900863	.9947389	.9973049	.9986710	.9993681	.9997108	.9998718
20	.9684689	.9817650	.9898576	.9945698	.9971997	.9986085	.9993358	.9996918
21	.9476413	.9683159	.9815630	.9896770	.9944358	.9971104	.9985540	.9993084
22	.9175687	.9478394	.9682690	.9814317	.9895493	.9943286	.9970370	.9988082
23	.8765534	.9184076	.9461541	.9683143	.9813668	.9894514	.9942490	.9979794
24	.8236536	.8783927	.9193654	.9485747	.9684444	.9813630	.9894019	.9964153
25	.7569985	.8260430	.8803833	.9204876	.9490917	.9686508	.9814170	.9939518
26	.6839980	.7638109	.8300713	.8823351	.9215835	.9496963	.9689329	.9898844
27	.6013055	.6985885	.7685933	.8353358	.8844192	.9228841	.9503807	.9838790
28	.5143294	.6094335	.6970093	.7733470	.8366310	.8865678	.9241407	.9751375
29	.4277533	.5241899	.6175805	.7033600	.7780735	.8399586	.8887738	.9635861
30	.3449669	.4382466	.5334993	.6284626	.7096191	.7887743	.8432970	.9490311
31	.2695398	.3557688	.4484967	.5486606	.6331943	.7157941	.7874507	.9466618
32	.2036448	.2800502	.3663488	.4685931	.5516306	.6407886	.7218919	.7981038
33	.1490984	.2135406	.2903901	.3767827	.4683437	.5604255	.6488370	.7879186
34	.1054183	.1575985	.2231340	.3005624	.3869053	.4779751	.5690599	.6556108
35	.0720053	.1125060	.1668666	.2386869	.3105947	.3969104	.4874328	.5778478
36	.0475068	.0776832	.1196309	.1744992	.2420287	.3204780	.4067809	.4967890
37	.0303671	.0517990	.0833729	.1267770	.1828940	.2513248	.3308871	.4164390
38	.0186187	.0333066	.0561895	.0891582	.1339391	.1912497	.2605374	.3398807
39	.0110375	.0207884	.0366103	.0606691	.0950001	.1411118	.1995686	.2696646
40	.0063398	.0125038	.0230556	.0399313	.0652898	.1008913	.1488918	.2078416
41	.0035091	.0072633	.0140314	.0254148	.0433424	.0698641	.1068782	.1554738
42	.0018718	.0040758	.0082516	.0156368	.0278610	.0468369	.0745658	.1117982
43	.0009674	.0022003	.0046885	.0093086	.0173220	.0303889	.0504088	.0793871
44	.0004819	.0011557	.0025739	.0053465	.0104146	.0190775	.0329936	.0540881
45	.0002318	.0005848	.0013658	.0029721	.0060843	.0118855	.0209017	.0356703
46	.0001076	.0002832	.0006996	.0015961	.0034087	.0068049	.0128131	.0227910
47	.0000485	.0001343	.0003463	.0008284	.0018487	.0038653	.0075991	.0140858
48	.0000209	.0000613	.0001656	.0004154	.0009709	.0020830	.0043398	.0084356
49	.0000087	.0000270	.0000763	.0002013	.0004989	.0011874	.0024188	.0048845
50	.0000035	.0000115	.0000342	.0000943	.0002418	.0006788	.0013978	.0027560
51	.0000014	.0000047	.0000147	.0000427	.0001147	.0003872	.0006735	.0014883
52	.0000005	.0000019	.0000061	.0000187	.0000525	.0001378	.0003377	.0007766
53	.0000002	.0000007	.0000025	.0000079	.0000233	.0000639	.0001638	.0003934
54	.0000001	.0000003	.0000010	.0000038	.0000100	.0000286	.0000768	.0001897
55		.0000001	.0000004	.0000013	.0000041	.0000184	.0000348	.0000918
56			.0000001	.0000005	.0000016	.0000058	.0000158	.0000437
57				.0000002	.0000006	.0000021	.0000064	.0000145
58				.0000001	.0000002	.0000008	.0000026	.0000079
59					.0000001	.0000003	.0000010	.0000033
60						.0000001	.0000004	.0000013
61							.0000001	.0000005
62							.0000001	.0000002
63								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 111

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999928	.9999973	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000
18	.9999795	.9999919	.9999969	.9999989	.9999996	.9999999	1.0000000	1.0000000
19	.9999452	.9999774	.9999910	.9999965	.9999987	.9999995	.9999998	.9999999
20	.9998626	.9999409	.9999755	.9999902	.9999962	.9999986	.9999995	.9999998
21	.9995754	.9998544	.9999369	.9999737	.9999894	.9999959	.9999985	.9999994
22	.9992760	.9996612	.9998471	.9999334	.9999781	.9999887	.9999956	.9999983
23	.9984711	.9992540	.9996491	.9998409	.9999304	.9999707	.9999881	.9999953
24	.9969370	.9984425	.9992367	.9996394	.9998358	.9999279	.9999695	.9999876
25	.9941665	.9969095	.9984223	.9992238	.9996320	.9998318	.9999259	.9999686
26	.9894178	.9941613	.9968964	.9984104	.9992155	.9996269	.9998291	.9999245
27	.9816814	.9894785	.9941785	.9968969	.9984064	.9992115	.9996242	.9998274
28	.9696855	.9811841	.9895714	.9942167	.9969104	.9984100	.9992118	.9996236
29	.9519601	.9701473	.9821290	.9896940	.9942746	.9969361	.9984306	.9992161
30	.9269732	.9528435	.9706596	.9824127	.9898441	.9943508	.9969733	.9984383
31	.8933340	.9284759	.9537788	.9712178	.9827319	.9900196	.9944439	.9970212
32	.8500421	.8956775	.9300285	.9547640	.9716178	.9830835	.9902184	.9945526
33	.7957348	.8534372	.8980570	.9316258	.9557231	.9724555	.9834645	.9904389
34	.7330759	.8013447	.8568442	.9004582	.9332630	.9568616	.9731272	.9838719
35	.6638578	.7397807	.8059144	.8602610	.9029072	.9349385	.9579653	.9738293
36	.5898994	.6700083	.7456258	.8105047	.8636857	.9053706	.9366392	.9591002
37	.5158781	.5941279	.6770698	.7514191	.8150565	.8671163	.9078548	.9383703
38	.4459859	.5148915	.6022426	.6840495	.7571646	.8195903	.8705512	.9103569
39	.3493571	.4354024	.5237801	.6102532	.6909541	.7628657	.8241067	.8739887
40	.2787109	.3587544	.4446986	.5325542	.6181683	.6977896	.7685255	.8286061
41	.2160783	.2876808	.3680504	.4538840	.5412233	.6259959	.7045616	.7741470
42	.1626570	.2242767	.2965791	.3772525	.4639677	.5497964	.6337436	.7112755
43	.1188037	.1698388	.2324382	.3054105	.3863682	.4719581	.5582817	.6414182
44	.0841442	.1248383	.1770178	.2405647	.3141798	.3954045	.4808635	.5666872
45	.0577616	.0890115	.1308986	.1841931	.2486581	.3228919	.4043684	.4896917
46	.0384144	.0615322	.0939245	.1369818	.1913642	.2567209	.3315517	.4132665
47	.0247480	.0412214	.0653592	.0988793	.1430855	.1985312	.2647555	.3401641
48	.0154288	.0267511	.0440871	.0692383	.1038783	.1492077	.2056943	.2727647
49	.0093127	.0168119	.0288149	.0470076	.0731657	.1089004	.1553470	.2128542
50	.0054395	.0102888	.0182418	.0309300	.0499790	.0771375	.1139609	.1615023
51	.0030741	.0060336	.0111823	.0197159	.0330932	.0539977	.0811505	.1190514
52	.0016805	.0034325	.0066356	.0121718	.0212317	.0363013	.0560602	.0852016
53	.0008885	.0018924	.0038107	.0072743	.0131936	.0237064	.0375510	.0591434
54	.0004543	.0010091	.0021175	.0042080	.0079385	.0148477	.0243775	.0398394
55	.0002246	.0005404	.0011592	.0023554	.0046235	.0086266	.0153313	.0260025
56	.0001073	.0002595	.0005917	.0012755	.0026058	.0050562	.0093373	.0164424
57	.0000496	.0001251	.0002974	.0006680	.0014208	.0028678	.0055051	.0100690
58	.0000221	.0000583	.0001445	.0003383	.0007492	.0015736	.0031410	.0059692
59	.0000095	.0000262	.0000679	.0001656	.0003820	.0008351	.0017337	.0034245
60	.0000040	.0000114	.0000308	.0000784	.0001883	.0004285	.0009255	.0019005
61	.0000016	.0000048	.0000135	.0000358	.0000897	.0002185	.0004777	.0010200
62	.0000006	.0000019	.0000057	.0000158	.0000413	.0001019	.0002383	.0005292
63	.0000002	.0000008	.0000023	.0000068	.0000184	.0000472	.0001148	.0002654
64	.0000001	.0000003	.0000009	.0000028	.0000079	.0000211	.0000535	.0001285
65		.0000001	.0000004	.0000011	.0000033	.0000091	.0000240	.0000601
66			.0000001	.0000004	.0000013	.0000038	.0000104	.0000278
67				.0000002	.0000005	.0000015	.0000044	.0000118
68				.0000001	.0000002	.0000006	.0000018	.0000050
69					.0000001	.0000002	.0000007	.0000020
70						.0000001	.0000003	.0000008
71							.0000001	.0000003
72								.0000001

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$I(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 111

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
22	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999951	.9999982	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
25	.9999872	.9999949	.9999981	.9999993	.9999998	.9999999	1.0000000	1.0000000
26	.9999679	.9999869	.9999948	.9999980	.9999993	.9999997	.9999999	1.0000000
27	.9999237	.9999675	.9999867	.9999948	.9999980	.9999993	.9999997	.9999999
28	.9998270	.9999234	.9999674	.9999866	.9999947	.9999980	.9999993	.9999997
29	.9996253	.9998276	.9999336	.9999675	.9999867	.9999948	.9999980	.9999993
30	.9990242	.9996290	.9998292	.9999244	.9999678	.9999868	.9999948	.9999980
31	.9984623	.9992359	.9996346	.9998319	.9999256	.9999684	.9999871	.9999949
32	.9970789	.9984921	.9992509	.9996420	.9998355	.9999273	.9999692	.9999874
33	.9946755	.9971455	.9985272	.9992669	.9996510	.9998329	.9999294	.9999701
34	.9906772	.9948112	.9972203	.9985672	.9992897	.9996615	.9998450	.9999319
35	.9843032	.9909334	.9949585	.9973024	.9986116	.9993130	.9996733	.9998508
36	.9745584	.9847555	.9913048	.9951161	.9973910	.9986598	.9993384	.9996863
37	.9602625	.9753113	.9852265	.9914895	.9952826	.9974851	.9987113	.9993656
38	.9401350	.9614486	.9760849	.9857137	.9917859	.9954569	.9975842	.9987057
39	.9128738	.9418999	.9626551	.9760763	.9862147	.9920928	.9956376	.9976878
40	.8774272	.9154028	.9436916	.9638789	.9776825	.9867272	.9924066	.9958230
41	.8330889	.8808653	.9179411	.9454971	.9651168	.9785010	.9874493	.9927877
42	.7797326	.8375554	.8843013	.9204862	.9473132	.9663652	.9793891	.9877185
43	.7179358	.7852848	.8420057	.8877339	.9230356	.9491372	.9676833	.9801644
44	.6490263	.7245470	.7908057	.8464399	.8911616	.9255868	.9509661	.9688863
45	.5750204	.6565740	.7311132	.7962972	.8508580	.8945827	.9281374	.9527978
46	.4984500	.5832881	.6640668	.7376382	.8017610	.8552598	.8979958	.9306051
47	.4231053	.5071455	.5914971	.6715102	.7441254	.8071986	.8596451	.9013994
48	.3487340	.4308912	.5157852	.5996537	.6789090	.7505779	.8126112	.8640138
49	.2807515	.3572664	.4396305	.5243756	.6077639	.6862680	.7569988	.8180000
50	.2200118	.2887191	.3657662	.4483298	.5329230	.6158334	.6935916	.7633906
51	.1676726	.2271684	.2966706	.3742384	.4569934	.5414335	.6238675	.7008839
52	.1241698	.1736577	.2343254	.3046096	.3826880	.4656289	.5499133	.6310719
53	.0892880	.1293143	.1800573	.2414846	.3125396	.3911201	.4742415	.5553600
54	.0623041	.0934072	.1344835	.1862715	.2486479	.3204643	.3995397	.4808578
55	.0421635	.0654794	.0975567	.1396765	.1925008	.2558176	.3283876	.4079519
56	.0276585	.0445204	.0686866	.1017345	.1448916	.1987457	.2629959	.3363134
57	.0175788	.0293432	.0469074	.0719231	.1059387	.1501289	.2050071	.2701856
58	.0108201	.0187385	.0310540	.0493217	.0751864	.1101677	.1553875	.2118863
59	.0064472	.0115088	.0199192	.0327882	.0517607	.0784743	.1144198	.1606673
60	.0037175	.0069380	.0123735	.0211186	.0345433	.0542218	.0817845	.1186937
61	.0020735	.0040191	.0074401	.0131722	.0223347	.0363169	.0567025	.0851149
62	.0011183	.0022520	.0043285	.0079522	.0139833	.0235649	.0381063	.0598003
63	.0005830	.0012200	.0024355	.0046445	.0084728	.0148046	.0248078	.0399091
64	.0002937	.0006308	.0013248	.0026232	.0049662	.0090005	.0156344	.0260590
65	.0001439	.0003232	.0006964	.0014321	.0028144	.0052923	.0095336	.0164705
66	.0000671	.0001579	.0003536	.0007553	.0015413	.0030082	.0056217	.0100705
67	.0000305	.0000765	.0001733	.0003847	.0008154	.0016521	.0032038	.0059531
68	.0000133	.0000359	.0000820	.0001892	.0004165	.0008762	.0017638	.0034004
69	.0000056	.0000164	.0000374	.0000897	.0002053	.0004486	.0009374	.0018757
70	.0000023	.0000073	.0000165	.0000411	.0000976	.0002215	.0004808	.0009986
71	.0000009	.0000026	.0000070	.0000181	.0000447	.0001055	.0002378	.0005128
72	.0000003	.0000010	.0000029	.0000077	.0000198	.0000484	.0001134	.0002539
73	.0000001	.0000004	.0000011	.0000031	.0000084	.0000214	.0000521	.0001211
74		.0000001	.0000004	.0000012	.0000034	.0000091	.0000230	.0000556
75			.0000002	.0000005	.0000014	.0000037	.0000098	.0000246
76			.0000001	.0000002	.0000005	.0000015	.0000040	.0000104
77				.0000001	.0000002	.0000006	.0000016	.0000043
78					.0000001	.0000002	.0000006	.0000017
79						.0000001	.0000002	.0000006
80							.0000001	.0000002
81								.0000001

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	.9999999	1.0000000
29	.9999997	.9999999
30	.9999993	.9999998
31	.9999981	.9999993
32	.9999951	.9999982
33	.9999879	.9999953

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 111

c	.49	.50
34	.9999713	.9999884
35	.9999346	.9999725
36	.9998573	.9999377
37	.9997002	.9998641
38	.9993944	.9997149
39	.9988223	.9994345
40	.9977035	.9988808
41	.9960141	.9979088
42	.9930537	.9962076
43	.9883131	.9933832
44	.9810044	.9888510
45	.9701521	.9818468
46	.9546279	.9714188
47	.9332875	.9564654
48	.9047918	.9357625
49	.8683645	.9081714
50	.8233659	.8736974
51	.7697559	.8287097
52	.7081488	.7760969
53	.6398513	.7153899
54	.5668034	.6478103
55	.4914214	.5758249
56	.4163680	.5000000
57	.3442460	.4247751
58	.2773893	.3521897
59	.2175844	.2846101
60	.1659601	.2239031
61	.1229883	.1718903
62	.0884636	.1273026
63	.0617129	.0910806
64	.0417227	.0642377
65	.0273180	.0435446
66	.0173108	.0285818
67	.0106096	.0181532
68	.0062853	.0111490
69	.0035969	.0066168
70	.0019872	.0037924
71	.0010593	.0020978
72	.0005445	.0011192
73	.0002697	.0005755
74	.0001287	.0002851
75	.0000591	.0001359
76	.0000261	.0000623
77	.0000111	.0000275
78	.0000045	.0000116
79	.0000018	.0000047
80	.0000007	.0000018
81	.0000002	.0000007
82	.0000001	.0000003
83		.0000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 112

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.67555645	.89593112	.96700061	.98966340	.99680080	.99902200	.99970480	.99991200
2	.30850050	.65805970	.86271780	.94142590	.97794220	.99203070	.99723640	.99909550
3	.10273480	.38663380	.65654250	.82907660	.93285540	.96726350	.98602120	.99492170
4	.02652360	.18703260	.43407570	.65945420	.81654760	.90929760	.95813210	.98174140
5	.00554630	.07490210	.24650430	.46595370	.66407970	.80847400	.89926840	.95050980
6	.00096950	.02547750	.12133230	.29180320	.49074780	.66946620	.80368010	.89184870
7	.00014500	.00748970	.05225010	.16239980	.32805910	.51123390	.67528050	.80088150
8	.00001090	.00193080	.01989640	.08075240	.19833740	.35829200	.52883940	.66109860
9	.00000230	.00044180	.00676310	.03610140	.10882850	.23016250	.38424440	.54438980
10	.00000020	.00009060	.00206940	.01460280	.05435380	.13565560	.25847950	.40702060
11		.00001680	.00057420	.00537640	.02482280	.07352240	.16007800	.26198560
12		.00000280	.00014540	.00181160	.01041060	.03674720	.09884700	.16477960
13		.00000040	.00003380	.00056140	.00402620	.01690910	.05498150	.11311720
14		.00000010	.00000720	.00016080	.00144140	.00728970	.02485500	.04360540
15			.00000140	.00004270	.00047940	.00291120	.01156930	.03374140
16			.00000030	.00001060	.00014860	.00105520	.00503600	.01677510
17				.00000240	.00004310	.00037070	.00205470	.00763100
18				.00000050	.00001170	.00012400	.00078760	.00343890
19				.00000010	.00000300	.00003820	.00028480	.00142330
20					.00000070	.00001110	.00009670	.00055610
21					.00000020	.00000300	.00003110	.00020550
22						.00000080	.00000950	.00007190
23						.00000020	.00000270	.00002390
24							.00000070	.00000750
25							.00000020	.00000230
26								.00000060
27								.00000020

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.99999741	.99999925	.99999979	.99999994	.99999998	1.00000000	1.00000000	1.00000000
2	.99996877	.99998991	.99999681	.99999901	.99999970	.99999991	.99999997	.99999999
3	.99981153	.99993235	.99997643	.99999202	.99999737	.99999915	.99999973	.99999992
4	.99924134	.99969781	.99988408	.99995703	.99998457	.99999468	.99999817	.99999940
5	.99770464	.99898767	.99957302	.99982701	.99993245	.99997450	.99999068	.99999669
6	.99422184	.99728335	.99874260	.99944405	.99976422	.99990378	.99996211	.99998558
7	.98863185	.99390627	.99691286	.99851276	.99931596	.99969845	.99987231	.99994700
8	.97996050	.98822420	.99348661	.99658970	.99830165	.99919231	.99963195	.99983886
9	.96870448	.97923785	.98792956	.99314786	.99631240	.99811086	.99907548	.99956650
10	.95584032	.96929859	.97999290	.98772436	.99287756	.99607651	.99794072	.99896701
11	.94273591	.95712254	.96980925	.98010681	.98759106	.99266543	.99587813	.99779087
12	.92971808	.94457752	.95809880	.97047470	.98026620	.98751634	.99250998	.99511354
13	.91071433	.93284560	.94626413	.95941966	.97054100	.98045130	.98748989	.99238322
14	.89103152	.92081832	.93481190	.94782347	.95946526	.97163672	.98068479	.98750362
15	.87178080	.91493975	.92480360	.93664143	.94927667	.96145668	.97219270	.98093111
16	.85341150	.90220048	.91672033	.92667924	.93835385	.95064018	.96240183	.97275198
17	.83227935	.89536792	.91066425	.91844346	.92645898	.93996517	.95192704	.96330703
18	.81112763	.88295063	.90643739	.91210147	.91410955	.92818175	.94148849	.95314776
19	.79052646	.87153308	.90368018	.90753715	.90152491	.91672033	.93176633	.94293473
20	.77023230	.86075385	.90199422	.90445788	.88965714	.90492978	.92327822	.93331043
21	.75009703	.85035124	.90102586	.90250534	.87827488	.89278950	.91631300	.92478605
22	.73003841	.84015526	.90050061	.90133889	.86706077	.88062356	.91092811	.91767873
23	.71001444	.83006519	.90023238	.90068095	.85693227	.86855505	.90699744	.91206830
24	.69000516	.82002603	.90010266	.90032988	.84809210	.85808260	.90428316	.90789108
25	.67000175	.81000990	.90004321	.90015235	.84048872	.84913334	.90259690	.90494050
26	.65000057	.80000359	.90001734	.90006713	.83421550	.84158939	.90140354	.90296228
27	.63000018	.79000134	.90000664	.90002825	.82909800	.83529309	.90075200	.90170133
28	.61000005	.78000041	.90000243	.90001136	.82504340	.83013915	.90038578	.90093631
29	.59000001	.77000013	.90000085	.90000437	.82191822	.82606353	.90018959	.90049401
30		.76000004	.90000028	.90000161	.81955733	.82277728	.90008930	.90024996
31		.75000001	.90000009	.90000057	.81782282	.82011160	.90004034	.90012135
32			.90000003	.90000019	.81661104	.81800465	.90001748	.90005655
33			.90000001	.90000006	.81583037	.81650179	.90000727	.90002531
34				.90000002	.81541013	.81550066	.90000291	.90001088
35				.90000001	.81529004	.81500084	.90000112	.90000450
36					.81542001	.81500008	.90000041	.90000179
37						.81520003	.90000015	.90000068
38						.81550001	.90000005	.90000025
39							.90000002	.90000009
40							.90000001	.90000003
41								.90000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999981	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
5	.99998886	.99999962	.99999988	.99999996	.99999999	1.00000000	1.00000000	1.00000000
6	.99994688	.99998810	.99999934	.99999978	.99999993	.99999998	.99999999	1.00000000
7	.99977941	.99996814	.99997710	.99999896	.99999964	.99999988	.99999996	.99999999
8	.99913205	.99987236	.99989813	.99995586	.99998648	.99999946	.99999981	.99999994
9	.99804479	.99951534	.99964461	.99983571	.99994448	.99999789	.99999923	.99999973
10	.99503433	.99770073	.99898813	.99956337	.99981196	.99992779	.99997781	.99999296
11	.98867777	.99443764	.99737532	.99880881	.99947835	.99977796	.99991028	.99996466
12	.97660851	.98778228	.99308917	.99705567	.99866376	.99933924	.99973866	.99989914
13	.95579930	.97548659	.98698847	.99331714	.99675563	.99847787	.99930771	.99969668
14	.92330030	.95472830	.97453999	.98628848	.99289094	.99647772	.99831588	.99928843
15	.87851111	.92249434	.95389773	.97377551	.98567883	.99249973	.99628819	.99816690
16	.81195396	.87627715	.92226823	.95329708	.97311199	.98511635	.99211358	.99599218
17	.73304467	.81475597	.87727752	.92387748	.95288814	.97236330	.98473357	.99180154
18	.64417740	.73850098	.81768045	.88704173	.92335011	.95226491	.97232537	.98439844
19	.54311090	.65017715	.74399113	.83207123	.87986789	.92389158	.95357628	.97300018
20	.44431301	.55423555	.65629800	.74928536	.80388855	.88014857	.92334970	.95864467
21	.34790931	.45631058	.56491618	.66618892	.75453928	.82700977	.88310718	.93488854

$$P(n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 112

x	.17	.18	.19	.20	.21	.22	.23	.24
33	.2624673	.3621387	.4689540	.5752000	.6738514	.7597705	.8302531	.8849057
34	.1900803	.2766324	.3750459	.4811169	.5851319	.6813247	.7649499	.8335455
35	.1330645	.2031859	.2903044	.3890784	.4928460	.5947458	.6886216	.7700797
36	.0879993	.1433986	.2160453	.3037510	.4010703	.5041894	.6040740	.6957580
37	.0562298	.0978030	.1546650	.2306629	.3167583	.4142032	.5151781	.6131436
38	.0344564	.0632695	.1064875	.1658488	.2410454	.3294309	.4263267	.5258466
39	.0203518	.0395444	.0704923	.1158302	.1769307	.2532007	.3417910	.4380390
40	.0114197	.0237346	.0448605	.0776696	.1252088	.1879305	.2651379	.3538626
41	.0061799	.0136823	.0274454	.0503810	.0853776	.1346062	.1980167	.2768664
42	.0032106	.0075773	.0161435	.0313680	.0560041	.0929950	.1440084	.2095961
43	.0016080	.0040325	.0091310	.0187948	.0354065	.0619504	.1007036	.1534042
44	.0007679	.0020628	.0049674	.0108384	.0216271	.0397858	.0679614	.1084076
45	.0003538	.0010147	.0025997	.0060165	.0126950	.0246308	.0442319	.0741018
46	.0001568	.0004801	.0013093	.0032153	.0071795	.0146989	.0277966	.0488713
47	.0000660	.0002106	.0006347	.0016547	.0039116	.0084560	.0168427	.0311151
48	.0000274	.0000958	.0002962	.0008202	.0020535	.0046890	.0098443	.0191218
49	.0000109	.0000404	.0001332	.0003917	.0010390	.0025070	.0055505	.0113425
50	.0000041	.0000164	.0000577	.0001802	.0005060	.0012932	.0030191	.0064938
51	.0000015	.0000064	.0000241	.0000799	.0002303	.0006431	.0015844	.0035885
52	.0000005	.0000024	.0000097	.0000342	.0001001	.0003085	.0008023	.0019142
53	.0000002	.0000009	.0000038	.0000141	.0000423	.0001428	.0003921	.0009857
54	.0000001	.0000003	.0000014	.0000055	.0000169	.0000638	.0001849	.0004900
55		.0000001	.0000005	.0000022	.0000061	.0000275	.0000842	.0002352
56			.0000002	.0000008	.0000022	.0000114	.0000370	.0001090
57			.0000001	.0000003	.0000012	.0000046	.0000157	.0000480
58				.0000001	.0000004	.0000018	.0000064	.0000211
59					.0000002	.0000007	.0000025	.0000088
60					.0000001	.0000002	.0000010	.0000035
61						.0000001	.0000004	.0000014
62							.0000001	.0000005
63								.0000002
64								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999962	.9999987	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999865	.9999950	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000
12	.9999564	.9999831	.9999936	.9999977	.9999992	.9999997	.9999999	1.0000000
13	.9998720	.9999477	.9999794	.9999921	.9999971	.9999990	.9999996	.9999999
14	.9996555	.9998523	.9999388	.9999755	.9999905	.9999965	.9999987	.9999996
15	.9991451	.9996152	.9998320	.9999299	.9999716	.9999889	.9999958	.9999985
16	.9980338	.9990708	.9995766	.9998139	.9999210	.9999676	.9999872	.9999951
17	.9957879	.9979112	.9990021	.9995404	.9997958	.9999124	.9999638	.9999855
18	.9915603	.9956106	.9978022	.9989398	.9995070	.9997789	.9999043	.9999600
19	.9841229	.9913444	.9954599	.9977072	.9988044	.9994768	.9997634	.9998967
20	.9718577	.9839285	.9911739	.9953586	.9976264	.9988367	.9994501	.9997494
21	.9528467	.9718127	.9838026	.9910470	.9952369	.9975598	.9987956	.9994270
22	.9250846	.9531633	.9718584	.9837404	.9909612	.9951631	.9975073	.9987624
23	.8860065	.9260598	.9535851	.9719871	.9837375	.9909145	.9951133	.9974686
24	.8367786	.8887966	.9271384	.9541018	.9721918	.9837895	.9909045	.9950868
25	.7751621	.8402452	.8908647	.9283088	.9547040	.9724658	.9838923	.9909287
26	.7027481	.7801990	.8436393	.8930010	.9295609	.9553833	.9728030	.9840419
27	.6219786	.7096041	.7851923	.8470556	.8951969	.9300857	.9561319	.9731975
28	.5362334	.6306000	.7163370	.7901439	.8504896	.8974447	.9323751	.9569428
29	.4494473	.5463341	.6390263	.7229564	.7950553	.8539371	.8997376	.9337217
30	.3656635	.4605760	.5562012	.6472739	.7294709	.7999278	.8573949	.9020695
31	.2883961	.3772130	.4714474	.5658452	.6553575	.7350882	.8047650	.8600595
32	.2202680	.2997370	.3885287	.4820816	.5752841	.6632903	.7422151	.8095621
33	.1627848	.2309331	.3108969	.3996268	.4924969	.5845344	.6710838	.7484579
34	.1163338	.1721434	.2412931	.3218916	.4105224	.5027102	.5936110	.6787489
35	.0803570	.1243306	.1814748	.2516506	.3327368	.4212298	.5127368	.6025274
36	.0536314	.0867144	.1321685	.1907750	.2619086	.3434077	.4317621	.5225908
37	.0345771	.0585209	.0931625	.1401392	.2000413	.2720708	.3539495	.4421318
38	.0215308	.0381737	.0635290	.0996915	.1481360	.2092723	.2821412	.3643590
39	.0129478	.0240639	.0418967	.0686460	.1062924	.1561532	.2184668	.2921248
40	.0075192	.0146573	.0267153	.0457379	.0738632	.1129575	.1641863	.2276049
41	.0042168	.0086257	.0164679	.0294794	.0496807	.0791733	.1196801	.1722315
42	.0023837	.0049041	.0098121	.0183761	.0323506	.0537451	.0845660	.1264544
43	.0013044	.0026937	.0056505	.0110767	.0203783	.0353233	.0578973	.0900379
44	.0006033	.0014294	.0031449	.0064556	.0124178	.0224709	.0383923	.0621401
45	.0008943	.0007328	.0015915	.0036375	.0073188	.0138331	.0246502	.0415525
46	.0001387	.0003630	.0008793	.0019814	.0041717	.0082391	.0153806	.0269124
47	.0000631	.0001737	.0004417	.0010433	.0022994	.0047472	.0092155	.0168777
48	.0000278	.0000803	.0002144	.0005311	.0012255	.0026457	.0053638	.0102466
49	.0000118	.0000359	.0001026	.0002613	.0006315	.0014261	.0030204	.0060209
50	.0000048	.0000155	.0000456	.0001243	.0003146	.0007434	.0016454	.0034235
51	.0000019	.0000065	.0000200	.0000571	.0001515	.0003747	.0008669	.0018835
52	.0000007	.0000026	.0000085	.0000254	.0000706	.0001826	.0004416	.0010024
53	.0000003	.0000010	.0000035	.0000109	.0000318	.0000861	.0002177	.0005160
54	.0000001	.0000004	.0000014	.0000045	.0000138	.0000392	.0001037	.0002569
55		.0000001	.0000005	.0000018	.0000058	.0000173	.0000478	.0001237
56			.0000002	.0000007	.0000024	.0000073	.0000213	.0000576
57			.0000001	.0000003	.0000009	.0000030	.0000092	.0000255
58				.0000001	.0000004	.0000012	.0000038	.0000113
59					.0000001	.0000005	.0000015	.0000047
60						.0000002	.0000006	.0000019
61						.0000001	.0000002	.0000008
62							.0000001	.0000003
63								.0000001

$$B(r;n,p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 12

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999944	.9999979	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
18	.9999830	.9999937	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000
19	.9999565	.9999823	.9999931	.9999974	.9999990	.9999997	.9999999	1.0000000
20	.9998899	.9999533	.9999809	.9999925	.9999971	.9999989	.9999996	.9999999
21	.9997373	.9998838	.9999504	.9999796	.9999919	.9999969	.9999989	.9999996
22	.9994078	.9997268	.9998785	.9999479	.9999785	.9999914	.9999967	.9999990
23	.9987367	.9993925	.9997184	.9998758	.9999458	.9999810	.9999910	.9999965
24	.9974430	.9987184	.9993010	.9997119	.9998700	.9999548	.9999787	.9999907
25	.9950808	.9974307	.9987073	.9993734	.9997074	.9998683	.9999429	.9999763
26	.9905049	.9950357	.9974304	.9987038	.9993696	.9997048	.9998660	.9999488
27	.9843344	.9910707	.9951398	.9974417	.9987057	.9993694	.9997041	.9998663
28	.9736441	.9844662	.9911839	.9951816	.9974639	.9987145	.9993726	.9997058
29	.9578095	.9741378	.9847338	.9913222	.9952488	.9974962	.9987892	.9993791
30	.9353189	.9587261	.9746739	.9850340	.9914834	.9953338	.9975378	.9987494
31	.9044350	.9367605	.9596871	.9752480	.9853634	.9916655	.9954304	.9975080
32	.8643204	.9068290	.9383411	.9606874	.9758560	.9857192	.9918663	.9955400
33	.8143252	.8677989	.9092470	.9399556	.9617253	.9764942	.9860905	.9920840
34	.7546220	.8190561	.8712687	.9116849	.9415991	.9627073	.9771500	.9864985
35	.6862951	.7607135	.8237508	.8747356	.9141308	.9432674	.9638785	.9778464
36	.6118957	.6937309	.7667338	.8304170	.8781976	.9166052	.9449564	.9649919
37	.5328058	.6199272	.7010644	.7726899	.8330493	.8816599	.9190000	.9466323
38	.4523503	.5418319	.6304382	.7081026	.7785046	.8376502	.8850996	.9215623
39	.3746446	.4634207	.5513480	.6360199	.7154580	.7844810	.8428800	.8865360
40	.3020243	.3940147	.4723771	.5605259	.6450960	.7235185	.7903022	.8467591
41	.2367470	.3310458	.3940772	.4832053	.5696930	.6532775	.7295076	.7959306
42	.1808860	.2758341	.3215949	.4060329	.4919223	.5787522	.6613626	.7336241
43	.1332753	.2285475	.2559375	.3312735	.4147100	.5015357	.5877118	.6622511
44	.0955818	.1901384	.1964149	.2639092	.3408095	.4244949	.5110566	.5865794
45	.0664678	.1601936	.1470403	.2044868	.2739011	.3504467	.4342015	.5104897
46	.0447989	.1378751	.1068654	.1539779	.2152630	.2810659	.3599502	.4339366
47	.0298539	.1201270	.0753570	.1125962	.1609463	.2206433	.2908060	.3694050
48	.0185081	.1056710	.0515223	.0799091	.1130012	.1679507	.2287281	.2997245
49	.0113310	.0931912	.0341602	.0550107	.0745271	.1242172	.1749825	.2368194
50	.0067177	.0818611	.0219484	.0367180	.0465561	.0892074	.1301015	.1803430
51	.0038547	.0714534	.0136531	.0237530	.0293410	.0621700	.0939466	.1360317
52	.0021404	.0618135	.0082869	.0148873	.0176205	.0420059	.0658454	.0987415
53	.0011499	.0528460	.0047994	.0090372	.0101677	.0275421	.0447696	.0695787
54	.0005976	.0443994	.0026101	.0053119	.0056829	.0174924	.0295152	.0475690
55	.0003004	.0366866	.0014009	.0030224	.0030500	.0107626	.0188593	.0315372
56	.0001460	.0298482	.0007430	.0016643	.0033523	.0064129	.0116750	.0202664
57	.0000686	.0238708	.0003904	.0008967	.0010562	.0036994	.0069997	.0126184
58	.0000312	.0187810	.0001900	.0004570	.0005977	.0020654	.0040630	.0075091
59	.0000137	.0144371	.0000947	.0002278	.0003179	.0011158	.0022825	.0043484
60	.0000058	.0108165	.0000438	.0001098	.0001600	.0005830	.0012407	.0024101
61	.0000024	.0078071	.0000196	.0000511	.0000763	.0002946	.0006523	.0013722
62	.0000009	.0054029	.0000084	.0000230	.0000338	.0001439	.0003316	.0007355
63	.0000004	.0035012	.0000035	.0000100	.0000148	.0000680	.0001630	.0003709
64	.0000001	.0021005	.0000014	.0000043	.0000063	.0000310	.0000774	.0001833
65		.0011992	.0000006	.0000017	.0000026	.0000137	.0000355	.0000875
66		.0006591	.0000002	.0000007	.0000010	.0000058	.0000157	.0000404
67		.0003481	.0000001	.0000003	.0000004	.0000024	.0000067	.0000180
68		.0001766		.0000001	.0000001	.0000009	.0000028	.0000077
69		.0000862			.0000001	.0000004	.0000011	.0000032
70		.0000403				.0000001	.0000004	.0000013
71		.0000180					.0000002	.0000005
72		.0000076					.0000001	.0000002
73		.0000030						.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$B(n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n	.41	.42	.43	.44	.45	.46	.47	.48
1	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999996	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999964	.9999987	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
5	.9999904	.9999963	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000
6	.9999758	.9999903	.9999962	.9999986	.9999995	.9999998	.9999999	1.0000000
7	.9999418	.9999756	.9999902	.9999962	.9999986	.9999995	.9999998	.9999999
8	.9998666	.9999419	.9999757	.9999902	.9999962	.9999986	.9999995	.9999998
9	.9997080	.9998678	.9999424	.9999760	.9999903	.9999962	.9999986	.9999995
10	.9993886	.9997184	.9998698	.9999433	.9999763	.9999905	.9999961	.9999986
11	.9987746	.9994010	.9997183	.9998726	.9999446	.9999769	.9999907	.9999964
12	.9976461	.9988044	.9994159	.9997255	.9998760	.9999468	.9999776	.9999910
13	.9956609	.9977111	.9988384	.9994331	.9997340	.9999001	.9999481	.9999784
14	.9923165	.9957916	.9977083	.9988760	.9994583	.9997435	.9998847	.9999508
15	.9869165	.9926621	.9959311	.9978589	.9989167	.9994731	.9997540	.9998897
16	.9785538	.9873508	.9928119	.9960701	.9979402	.9988601	.9994058	.9997653
17	.9661338	.9792770	.9877772	.9930858	.9963314	.9980855	.9988760	.9995196
18	.9481814	.9677709	.9800158	.9882551	.9933504	.9966899	.9981139	.9990517
19	.9240468	.9501103	.9684099	.9807647	.9880217	.9936397	.9965585	.9980849
20	.8915603	.9245316	.9510459	.9689977	.9785219	.9881951	.9930258	.9961185
21	.8510676	.8953710	.9290138	.9535851	.9607714	.9782850	.9856738	.9922819
22	.8016007	.8557455	.8987665	.9314710	.9333249	.9619400	.9719516	.9845541
23	.7433705	.8072385	.8601930	.9021449	.8939605	.9370634	.9533851	.9681102
24	.6778792	.7500569	.8129217	.8646093	.8455049	.9016200	.9234998	.9374998
25	.6053688	.6851287	.7567810	.8180600	.7880946	.8550446	.8780669	.8805200
26	.5289438	.6140602	.6930960	.7634408	.7233481	.7973481	.8191624	.8123809
27	.4534066	.5391354	.6227081	.7006065	.6530614	.7293667	.7476699	.7154565
28	.3788168	.4629180	.5483413	.6310766	.5797844	.6532834	.6647171	.6019507
29	.3086244	.3881888	.4723770	.5574980	.5063779	.5750506	.5831366	.4900865
30	.2449151	.3175090	.3975278	.4817096	.4366014	.4982333	.5233930	.3896031
31	.1891317	.2530197	.3263017	.4060384	.3711617	.4257575	.4566379	.3008071
32	.1430059	.1963482	.2611338	.3352463	.3116264	.3604990	.3946718	.2249976
33	.1035895	.1480285	.2036926	.2690596	.2581064	.3053942	.3409073	.1639499
34	.0733675	.1084803	.1540803	.2105653	.2077998	.2553660	.2946496	.1190980
35	.0504211	.0778090	.1134352	.1601782	.1672670	.2055551	.2610291	.0843960
36	.0336056	.0533232	.0811007	.1184389	.1663157	.2249988	.2937300	.3706999
37	.0217115	.0357177	.0560785	.0850401	.1334675	.1784986	.2382619	.3019360
38	.0135012	.0231925	.0374709	.0592663	.0890550	.1385490	.1787087	.2395579
39	.0080401	.0145917	.0242071	.0400629	.0623083	.0930538	.1336746	.1849644
40	.0048367	.0088913	.0156181	.0262532	.0423912	.0653700	.0971831	.1388410
41	.0027475	.0052450	.0095614	.0166687	.0278286	.0445532	.0684910	.1012327
42	.0015099	.0029948	.0053665	.0102490	.0177414	.0294308	.0468465	.0716393
43	.0008035	.0016535	.0032455	.0060999	.0109525	.0188344	.0310570	.0491609
44	.0004133	.0008939	.0018004	.0035126	.0065445	.0115704	.0199456	.0327071
45	.0002047	.0004557	.0009666	.0019568	.0037827	.0069981	.0123410	.0210730
46	.0000982	.0002271	.0005010	.0010531	.0021142	.0040589	.0074603	.0131425
47	.0000455	.0001095	.0002508	.0005478	.0011421	.0022759	.0043402	.0079895
48	.0000203	.0000509	.0001213	.0002758	.0005960	.0012331	.0024406	.0046257
49	.0000088	.0000229	.0000560	.0001335	.0003003	.0006453	.0013258	.0026075
50	.0000037	.0000099	.0000255	.0000625	.0001461	.0003260	.0006954	.0014196
51	.0000015	.0000041	.0000111	.0000283	.0000685	.0001589	.0003530	.0007460
52	.0000006	.0000017	.0000046	.0000123	.0000310	.0000747	.0001718	.0003782
53	.0000002	.0000006	.0000019	.0000051	.0000135	.0000338	.0000809	.0001848
54	.0000001	.0000002	.0000007	.0000021	.0000057	.0000148	.0000367	.0000871
55		.0000001	.0000003	.0000008	.0000023	.0000062	.0000160	.0000395
56			.0000001	.0000003	.0000009	.0000025	.0000067	.0000178
57				.0000001	.0000003	.0000010	.0000027	.0000072
58					.0000001	.0000004	.0000011	.0000029
59						.0000001	.0000004	.0000011
60							.0000001	.0000004
61								.0000001
62								.0000001

n	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	.9999999	1.0000000
29	.9999998	.9999999
30	.9999995	.9999998
31	.9999987	.9999995
32	.9999966	.9999987

$$I(x,n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 11?

p	.49	.50
33	.9999814	.9999967
34	.9999744	.9999918
35	.9999526	.9999804
36	.9999058	.9999551
37	.9997771	.9999009
38	.9995443	.9997895
39	.9991037	.9995697
40	.9982076	.9991527
41	.9966860	.9983215
42	.9945043	.9970549
43	.9906760	.9947264
44	.9845057	.9911171
45	.9754647	.9853489
46	.9628347	.9766328
47	.9437137	.9639368
48	.9187853	.9481088
49	.8860139	.9219668
50	.8454158	.8904344
51	.7960248	.8507036
52	.7383363	.8024033
53	.6733170	.7457434
54	.6025968	.6816091
55	.5283586	.6115176
56	.4531411	.5376185
57	.3795888	.4603875
58	.3101491	.3884824
59	.2466888	.3163999
60	.1918601	.2543566
61	.1440484	.1975967
62	.1053807	.1492964
63	.0748207	.1095656
64	.0515179	.0780332
65	.0343763	.0538911
66	.0222143	.0360639
67	.0138932	.0233675
68	.0084042	.0146511
69	.0049142	.0088829
70	.0027760	.0052046
71	.0015140	.0029451
72	.0007968	.0016095
73	.0004044	.0008473
74	.0001978	.0004303
75	.0000932	.0002105
76	.0000422	.0000971
77	.0000184	.0000449
78	.0000077	.0000196
79	.0000031	.0000082
80	.0000012	.0000033
81	.0000004	.0000013
82	.0000002	.0000005
83	.0000001	.0000002
84		.0000001

$$P_n(x) = \sum_{m=0}^{n} (-1)^m \binom{n}{m} \binom{n+m}{m} x^m$$

n = 113

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.67879849	.89801126	.96779859	.99007697	.99826807	.99940807	.99973854	.99991191
2	.31811755	.66881171	.89611464	.96433584	.99056096	.99824508	.99939406	.99981840
3	.10479985	.39402023	.68242477	.89343306	.97855996	.99674435	.99875480	.99965884
4	.02776858	.17210548	.44074497	.76667711	.95881610	.99314014	.99734078	.99930083
5	.00657841	.06771445	.25298090	.61736917	.92170311	.98145814	.99401402	.99867958
6	.00101158	.02666660	.13550899	.49907693	.87707067	.96770067	.98903160	.99665416
7	.00011538	.00784794	.06543855	.38759769	.82441444	.94919335	.98041940	.99381508
8	.00002208	.00204419	.02808670	.29401683	.76533144	.92074885	.96706850	.98906810
9	.00000283	.00047115	.00971671	.21378875	.70144685	.88705503	.94943660	.98133965
10	.00000023	.00009974	.00282108	.14913628	.63470774	.84513620	.92678031	.96810108
11		.00001183	.00066191	.00857454	.05868974	.07725504	.16780031	.89368884
12		.00000031	.00015583	.00196543	.05111318	.03895537	.09776906	.81971160
13		.00000005	.00003478	.00040114	.04043454	.01801757	.05088337	.71179008
14		.00000001	.00000680	.00007688	.00187607	.00778718	.02866088	.06749088
15			.00000116	.00001474	.00068275	.00031739	.01249993	.05361305
16			.00000001	.00000118	.00014582	.00119048	.00549333	.01811284
17			.00000001	.00000088	.00004483	.00041211	.00188634	.00655465
18				.00000006	.00001133	.00013931	.00060763	.00237903
19				.00000001	.00000334	.00003434	.00023104	.00085845
20					.00000008	.00000107	.00001098	.00006855
21					.00000009	.00000035	.00000357	.00002335
22						.00000009	.00000110	.00000826
23						.00000002	.00000032	.00000277
24						.00000001	.00000009	.00000080
25							.00000002	.00000021
26							.00000001	.00000004
27								.00000001
28								

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.99997765	.99999338	.99999881	.99999965	.99999949	1.00000000	1.00000000	1.00000000
2	.99971155	.99990085	.99997714	.99999513	.99999974	.99999993	.99999998	.99999999
3	.99885568	.99963810	.99977068	.99992386	.99999767	.99999986	.99999977	.99999993
4	.99597266	.99781386	.99909484	.99976133	.99996883	.99999595	.99999841	.99999948
5	.98784804	.99054869	.99607794	.99842661	.99939982	.99997738	.99991180	.99999715
6	.94741789	.97745373	.98833956	.99490000	.99786609	.99913688	.99966640	.99990735
7	.89153295	.94284398	.97111360	.98628451	.99377423	.99782720	.99888369	.99955365
8	.80740090	.88779241	.93863444	.96820047	.98433351	.99486317	.99667799	.99856829
9	.69771746	.80176449	.88554084	.93560088	.96571100	.98866986	.99158895	.99661007
10	.56999009	.70036251	.80866553	.88837518	.93324400	.97961155	.98111094	.99066893
11	.43911531	.58834014	.71000066	.81002098	.88827831	.96318759	.96618698	.97797906
12	.31179969	.45832802	.59568354	.71630055	.81018844	.93003998	.93883981	.96043902
13	.20161457	.34018779	.47588916	.60746227	.72851519	.88241885	.89041685	.93091607
14	.11778848	.23822105	.36071764	.49981801	.63184180	.82866356	.82170555	.88288436
15	.06035084	.15727760	.25900369	.39798327	.53073118	.76980049	.73466658	.81190271
16	.04651104	.09779841	.17609939	.30767471	.43977302	.70315449	.63870746	.74066064
17	.02846494	.05753116	.11335042	.23431775	.35974531	.63145967	.53498824	.66418898
18	.01831288	.03192336	.06902235	.17286351	.28119498	.55525631	.43054227	.58477324
19	.00580056	.01674804	.03908347	.12308407	.21430092	.47900073	.33224461	.50456808
20	.00259078	.00831177	.02179967	.08482739	.15988046	.40558144	.24455114	.42485032
21	.00109200	.00391150	.01131185	.05719465	.11571457	.33850914	.17357778	.34614995
22	.00043669	.00174486	.00558032	.03478886	.08334660	.27683679	.11735385	.27061086
23	.00016659	.00074280	.00266199	.02076991	.05870018	.22400064	.07558704	.20096500
24	.00005997	.00029955	.00119693	.00977001	.03994613	.17830274	.04649010	.14559943
25	.00002206	.00011151	.00049775	.00417365	.02650636	.14126829	.02773394	.10541860
26	.00000067	.00004228	.00020018	.00017736	.00845489	.00966564	.01569004	.03278674
27	.00000021	.00001647	.00007782	.00003898	.00311406	.00333457	.00849773	.01903074
28	.00000006	.00000649	.00002889	.00001339	.00090561	.00116096	.00411071	.01086874
29	.00000002	.00000246	.00001028	.00000521	.00022150	.00037415	.00181901	.00564778
30		.00000095	.00000335	.00000194	.00000674	.00010474	.00074454	.00288901
31		.00000031	.00000111	.00000069	.00000241	.00001305	.00004768	.00014193
32			.00000034	.00000024	.00000107	.00000562	.00002091	.00006692
33			.00000011	.00000008	.00000046	.00000219	.00000881	.00003031
34				.00000002	.00000016	.00000082	.00000356	.00001319
35				.00000001	.00000005	.00000030	.00000139	.00000550
36					.00000002	.00000010	.00000052	.00000222
37					.00000001	.00000003	.00000019	.00000086
38						.00000001	.00000004	.00000034
39							.00000008	.00000013
40							.00000001	.00000004
41								.00000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999993	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999903	.99999995	.99999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	.99999002	.99999668	.99999990	.99999997	.99999999	1.00000000	1.00000000	1.00000000
6	.99995539	.99998837	.99999944	.99999981	.99999994	.99999998	.99999999	1.00000000
7	.99968201	.99993328	.99997759	.99999918	.99999978	.99999993	.99999997	.99999999
8	.99844011	.99975993	.99992064	.99999648	.99999930	.99999985	.99999995	.99999998
9	.99386639	.99923561	.99969027	.99989774	.99997527	.99999823	.99999936	.99999978
10	.98255466	.99769676	.99911074	.99966224	.99990458	.99999391	.99999768	.99999914
11	.98875804	.99802461	.99766903	.99885592	.99955501	.99988124	.99959244	.99997766
12	.97866574	.99489802	.99454555	.99740070	.99801142	.99934776	.99847780	.99960880
13	.96593311	.98776995	.98832951	.99410084	.99371514	.99846750	.99694064	.99897435
14	.92865773	.97384803	.97669044	.98677016	.98717178	.99649162	.99298538	.99784223
15	.86338047	.94889448	.95768194	.97652609	.97671960	.99337209	.98667035	.99584993
16	.78217634	.88459115	.92882789	.95213637	.95757572	.98667769	.97930754	.99065143
17	.67464619	.78588310	.86586228	.91047860	.93713115	.97753819	.96643376	.98288139
18	.54729904	.65782348	.77200067	.84872448	.90870410	.96570434	.94751244	.96861743
19	.41548821	.51660724	.64607283	.75772283	.86888296	.94894571	.91871080	.94497550
20	.28601866	.37715040	.50745645	.63545453	.80559967	.92905535	.87301852	.91572920

$$\text{Probability} = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

r	.17	.18	.19	.20	.21	.22	.23	.24
01	.16400940	.47338370	.58066507	.60279?1	.76900893	.83890118	.89019668	.93110465
02	.07699285	.37900096	.48711868	.59339?2	.69070558	.77455831	.84234095	.89343?3?
03	.03038841	.29300335	.39358365	.49999317	.60376330	.69855820	.77996997	.84587119
04	.01419078	.22164068	.30666281	.40748661	.51800276	.61377337	.70617721	.78531115
05	.00654904	.16416033	.23016?7	.32801165	.43009819	.53411110	.63358190	.71359583
06	.00269306	.11858173	.16638?8	.26436805	.34636335	.45406686	.56360488	.63899211
07	.00101579	.08337774	.11564112	.17?84116	.26594451	.37809904	.49676685	.56479?79
08	.00036665	.04381150	.07733213	.12583339	.19040019	.30699214	.43618348	.49591180
09	.00129211	.02656834	.04973085	.08546610	.13607?83	.24228809	.38027683	.43406150
10	.00070706	.01549?7	.03075?3	.05507?07	.09374?8?	.18613?6	.33140706	.37955455
11	.00371?64	.00866768	.01882909	.03517?06	.06288357	.14031495	.15661?3	.33057405
12	.00018764	.00446705	.01046?54	.02213095	.03981100	.10666?37	.11066?37	.28680008
13	.00009097	.00224174	.00575885	.01342?97	.02463?76	.07954?21	.07549?1	.24199676
14	.00004248	.00112034	.00309495	.00699008	.01485714	.05797051	.05497051	.20483544
15	.00001903	.00057763	.00159544	.00377?55	.00883379	.04160030	.03151013	.17540?66
16	.00000821	.00029654	.00079620	.00196?6?	.00459?8	.00980?94	.01936?1	.03537?66
17	.00000341	.00011?91	.00036?05	.00099071	.00244337	.00551?83	.01145?0	.03000083
18	.00000136	.00005?04	.00016?1	.00047?4	.00108?91	.00299?0	.00653?81	.01309?95
19	.00000?5?	.00000807	.00007?00	.00022?5	.00046185	.00151404	.00360?3	.00765?78
20	.00000019	.00000?8?	.00003?4	.00010?0	.00020?47	.00071?61	.00191?44	.00409?58
21	.00000007	.00000?31	.00001?4	.00004?3	.00013?4	.00030?1	.00098?2	.00?3160
22	.00000001	.00000018	.00000?49	.00001?01	.00006?00	.00017?90	.00040?64	.00?10?85
23	.00000001	.00000004	.00000?18	.00000?73	.00002?57	.00009?11	.00020?6	.00006?90
24		.00000001	.00000?07	.00000?20	.00001?06	.00004?55	.00010?3	.00002?63
25			.00000?02	.00000?11	.00000?42	.00001?59	.00004?8	.00013?3
26			.00000?01	.00000?04	.00000?16	.00000?61	.00001?06	.00004?30
27				.00000?01	.00000?06	.00000?24	.00000?06	.00001?77
28					.00000?02	.00000?09	.00000?34	.00000?17
29					.00000?01	.00000?03	.00000?13	.00000?4?
30						.00000?01	.00000?05	.00000?19
31							.00000?02	.00000?07
32							.00000?01	.00000?03
33								.00000?01

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	.99999993	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	.99999969	.99999989	.99999996	.99999998	1.00000000	1.00000000	1.00000000	1.00000000
11	.99998889	.99999?50	.99999986	.99999995	.99999998	.99999999	1.00000000	1.00000000
12	.99996639	.99998?69	.99999949	.99999982	.99999994	.99999998	1.00000000	1.00000000
13	.99988931	.99995?69	.99998?30	.99999937	.99999977	.99999993	.99999997	.99999999
14	.99967066	.99988?71	.99994?08	.99999?03	.99999924	.99999?72	.99999990	.99999997
15	.99907787	.99966?68	.99981614	.99994427	.99997?71	.99999?11	.99999967	.99999?8?
16	.99831116	.99901?83	.99964?8	.99984464	.99993?57	.99997?40	.99999?99	.99999?69
17	.99634993	.99781?27	.99911?72	.99961?0	.99983?01	.99992?90	.99997?0	.99999?86
18	.99261?72	.99630?88	.99811962	.99911080	.99955?08	.99981?90	.99992?27	.99998?89
19	.98596?38	.99345?36	.99609?24	.99805?83	.99906?50	.99956?74	.99980?71	.99991?70
20	.97492?0	.98505?67	.99233?1?	.99599996	.99791?0	.99902?84	.99954?0	.99979?66
21	.95755?5	.97496?2?	.98579?8	.99201?78	.99599?99	.99792?7	.99889?5	.99953?0?
22	.93802?51	.95801?21	.97508?3	.98577?62	.99220?19	.99508?81	.99790?7	.99897?51
23	.89637?0	.93310?7	.95851?9	.97527?81	.98583?4	.99218?1	.99588?54	.99788?6
24	.84935?5	.89849?50	.93402?90	.95910?7	.97554?1	.98592?70	.99230?8	.99586?86
25	.79059?2	.85256?86	.90066?86	.93583?8	.96977?5	.97586?9	.98604?1	.99035?91
26	.72085?4	.79581?10	.86363?08	.90288?2	.96185?4	.96050?0	.97624?7	.98624?57
27	.64211?10	.73795?8?	.82097?0	.86599?03	.95016?4	.94?3?50	.96133?9	.97666?7?
28	.55766?3	.67511?11	.77349?79	.82060?91	.93644?47	.92?4?70	.93967?7	.96211?43
29	.47111?13	.56822?30	.72599?03	.7?17689	.9111?12	.8669?94	.3098?48	.9411?5?5
30	.38666?94	.48287?31	.67856?40	.66846?50	.87484?03	.8161?06	.87058?11	.91?1?9??
31	.30771?30	.39988?74	.63343?09	.58864?52	.83688?04	.75510?1	.8?10?89	.87404?67
32	.23730?0?	.31988?06	.54109?67	.50553?54	.79805?54	.6850?96	.76169?0	.8?59?73
33	.17711?56	.24874?81	.45105?89	.42271?41	.75165?58	.60?1?18	.69?1?45	.76801?18
34	.12794?66	.18749?27	.36000?67	.34365?5	.69442?50	.5?72?5?5	.61760?6	.70105?50
35	.08935?18	.13668?80	.27?6?89	.27131?81	.63582?61	.4456?39	.5370?78	.6?69?83
36	.06031?88	.09644?86	.14544?10	.20?8?01	.5?24453	.3667?43	.45686?43	.54481?05
37	.03934?06	.06585?12	.10369?41	.15431?2?	.21798?8?	.29?47?9	.3?80?14	.46?8?87
38	.02479?4	.04346?40	.07153?00	.11101?68	.16318?6	.2?81116	.30?4?18	.38?2?63
39	.01580?38	.02773?5	.04773?74	.07733?8?	.11642?0	.17?0?89	.2?82?57	.31?2?93
40	.00987?3	.01710?0	.03081?3	.05215?2	.08?32?6	.1?69162	.1?10139	.2?06?47
41	.00604?84	.01019?9?	.01983?47	.03403?8	.05670?0	.0893?78	.13347?0	.18?95?4
42	.00374?70	.00587?1?	.01269?9	.02148?1	.03737?9	.06137?2	.0954?14	.14111?30
43	.00146?7	.00334?84	.00?7?40	.01312?6	.02383?03	.0406?98	.0661?46	.10?69?11
44	.00073?11	.00178?81	.00382?14	.00?7?95	.01472?3	.0?63?66	.0444?88	.07104?4
45	.00037?16	.00091?39	.00208?39	.00448?6	.00?87?5	.01642?5	.02?9?02	.04814?05
46	.0001?76	.00045?1	.00109?6	.00?4451	.00503?3	.00?9?73	.0182?20	.0?15?78
47	.00008?0	.00022?9	.00055?8	.00130?0	.00?8?83	.0057?4?	.01111?1	.0?00?88
48	.00003?6	.00010?6	.00027?8	.00067?5	.00153?9	.00?3?61	.0065?7?	.01?3?66
49	.00001?8	.00004?4	.00013?3	.00033?8	.00080?0	.0017?20	.00?7469	.00?3?31
50	.00000?6	.00002?8	.00006?5	.00016?6	.00040?5	.00094?2	.00?0?16	.00?5?47
51	.00000?6	.00000?8	.00002?9	.00007?9	.00019?8	.00048?3	.00110?3	.00?3?63
52	.00000?0	.00000?6	.00001?6	.00003?3	.00009?0	.00024?2	.00057?6	.00?28?3
53	.00000?4	.00000?4	.00000?8	.00001?0	.00004?0	.00011?0	.00028?8	.00?67?7
54	.00000?1	.00000?5	.00000?9	.00000?3	.00001?0	.00005?3	.00013?1	.00?33?0
55		.00000?2	.00000?8	.00000?6	.00000?1	.00002?8	.00006?1	.00?16?3

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 113

r	.25	.26	.27	.28	.29	.30	.31	.32
56		.0000001	.0000003	.0000010	.0000034	.0000103	.0000295	.0000787
57			.0000001	.0000004	.0000013	.0000043	.0000129	.0000360
58				.0000001	.0000005	.0000017	.0000055	.0000160
59				.0000001	.0000002	.0000007	.0000023	.0000068
60					.0000001	.0000003	.0000009	.0000028
61						.0000001	.0000003	.0000011
62							.0000001	.0000004
63								.0000002
64								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	.99999986	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
17	.99999957	.99999984	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000
18	.99998874	.99999951	.99999982	.99999994	.99999998	.99999999	1.00000000	1.00000000
19	.99996656	.99998862	.99999947	.99999980	.99999993	.99999998	.99999999	1.00000000
20	.99991119	.99996632	.99998852	.99999942	.99999978	.99999992	.99999997	.99999999
21	.99976876	.99990074	.99996611	.99998848	.99999938	.99999977	.99999992	.99999997
22	.99935165	.99978802	.99990037	.99995593	.99998834	.99999935	.99999975	.99999991
23	.99839583	.99950562	.99977745	.99990007	.99995579	.99998828	.99999932	.99999974
24	.99678701	.99889476	.99949991	.99977703	.99989986	.99995568	.99999823	.99999930
25	.99458604	.99786785	.99894431	.99949953	.99976778	.99988972	.99995561	.99998820
26	.99223365	.99588896	.99778774	.99894445	.99949446	.99976669	.99988965	.99995558
27	.98864621	.99243942	.99559350	.99778959	.99894514	.99949460	.99976676	.99988966
28	.98371389	.98671117	.99256642	.99559052	.99779234	.99894634	.99955019	.99976696
29	.97630349	.97754495	.98669914	.99271116	.99490690	.99779592	.99894802	.99955095
30	.96426738	.96396621	.97819491	.98729777	.99026770	.99615511	.99800225	.99900013
31	.94145937	.94422888	.96499325	.97877097	.98762788	.99305928	.99625233	.99805266
32	.90775636	.91700557	.94581222	.96592928	.97937388	.98079788	.99325633	.99635792
33	.85308269	.88106921	.91943000	.94741908	.96695188	.97999978	.98834799	.99346644
34	.77433427	.83568877	.88456111	.92186248	.94904478	.96799598	.98064538	.98873278
35	.67088430	.78054933	.84038348	.88805748	.92429928	.95068508	.96905788	.98130728
36	.56360455	.71650478	.79669048	.84509178	.89149598	.92673688	.95233608	.97013378
37	.45833868	.64508258	.72404878	.79275178	.84975428	.89493488	.92917238	.95399418
38	.36787888	.56839438	.65385348	.73148208	.79873658	.85437128	.89835238	.93166238
39	.28828758	.48942568	.57825868	.66255378	.74001108	.80464818	.85094318	.90174658
40	.32598898	.41120358	.49997998	.58799178	.67112968	.74604158	.81048918	.86346998
41	.25828858	.33665538	.42200228	.51040078	.59759328	.67958918	.75317848	.81626208
42	.19891818	.26827818	.34724328	.43269148	.52069748	.60707188	.68793918	.76022678
43	.14878888	.20789308	.27823488	.35775758	.44327858	.53087868	.61643578	.69618638
44	.10802068	.15652968	.21688038	.28816048	.36820318	.45377088	.54095228	.62569228
45	.07503558	.11443428	.16432148	.22587898	.29805688	.37858508	.46417508	.55092588
46	.05194978	.08111838	.12092668	.17216118	.23488018	.30792668	.38890828	.47449798
47	.03453838	.05588148	.08638508	.12749358	.18000598	.24399078	.31777228	.39917768
48	.02305028	.03726608	.05987108	.09116768	.13413318	.18779388	.25295858	.32759678
49	.01369758	.02402438	.04024048	.06399418	.09705318	.14005598	.19594338	.26198038
50	.00884018	.01509338	.02621868	.04330338	.06816668	.10285118	.14760518	.20395328
51	.00479358	.00971598	.01655448	.02842048	.04645138	.07344478	.10804708	.15443638
52	.00270618	.00538108	.01012618	.01807908	.03069718	.05196108	.07688498	.11367768
53	.00147688	.00306128	.00599918	.01114328	.01966528	.03301598	.05289928	.08012438
54	.00077998	.00168578	.00344148	.00665308	.01228088	.02131138	.03554648	.05637298
55	.00039858	.00089838	.00191118	.00384668	.00734828	.01331998	.02301518	.03794998
56	.00019708	.00044358	.00102738	.00215328	.00427658	.00806598	.01447698	.02477478
57	.00009428	.00021118	.00053438	.00116668	.00241168	.00473038	.00882308	.01567768
58	.00004368	.00010118	.00026898	.00061178	.00131548	.00268638	.00529838	.00961288
59	.00001958	.00004838	.00013098	.00031038	.00069548	.00147668	.00297698	.00570918
60	.00000848	.00002358	.00006168	.00015238	.00035548	.00078558	.00164708	.00328308
61	.00000358	.00001038	.00002808	.00007238	.00017578	.00040428	.00088188	.00182748
62	.00000148	.00000438	.00001238	.00003318	.00008408	.00020128	.00045678	.00098428
63	.00000068	.00000188	.00000528	.00001478	.00003888	.00009688	.00022888	.00051288
64	.00000028	.00000078	.00000228	.00000638	.00001738	.00004508	.00011088	.00025838
65	.00000018	.00000038	.00000098	.00000268	.00000758	.00002038	.00005188	.00012588
66		.00000018	.00000038	.00000108	.00000318	.00000888	.00002348	.00005928
67			.00000018	.00000048	.00000138	.00000378	.00001028	.00002698
68				.00000028	.00000058	.00000158	.00000438	.00001188
69				.00000018	.00000028	.00000068	.00000188	.00000508
70					.00000018	.00000028	.00000078	.00000208
71						.00000018	.00000038	.00000088
72							.00000018	.00000038
73								.00000018

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 115

p	.41	.42	.43	.44	.45	.46	.47	.48
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999973	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999939	.9999973	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000
26	.9999818	.9999928	.9999973	.9999990	.9999996	.9999999	1.0000000	1.0000000
27	.9999550	.9999818	.9999928	.9999973	.9999990	.9999996	.9999999	1.0000000
28	.9998975	.9999561	.9999819	.9999928	.9999973	.9999990	.9999997	.9999999
29	.9997730	.9998989	.9999567	.9999822	.9999930	.9999973	.9999990	.9999997
30	.9995196	.9997777	.9999011	.9999577	.9999826	.9999931	.9999974	.9999991
31	.9990264	.9995318	.9997834	.9999037	.9999589	.9999831	.9999934	.9999975
32	.9981088	.9990550	.9995459	.9997902	.9999069	.9999603	.9999838	.9999936
33	.9964748	.9981703	.9990867	.9995617	.9997979	.9999105	.9999619	.9999848
34	.9936877	.9965978	.9982364	.9991211	.9995791	.9998064	.9999145	.9999638
35	.9891305	.9939185	.9967271	.9983064	.9991577	.9995976	.9998154	.9999188
36	.9819825	.9895392	.9941571	.9968616	.9983797	.9991963	.9996178	.9998850
37	.9712201	.9826603	.9899565	.9944021	.9970004	.9984555	.9993368	.9996378
38	.9586558	.9723138	.9833618	.9903803	.9946518	.9971423	.9985338	.9992773
39	.9340240	.9573178	.9734118	.9840604	.9908087	.9949049	.9972864	.9986183
40	.9051158	.9364346	.9589770	.9745112	.9847618	.9912397	.9951600	.9974318
41	.8679516	.9084585	.9388316	.9606306	.9756091	.9854637	.9916716	.9954159
42	.8219688	.8723883	.9117728	.9412124	.9622758	.9767031	.9861637	.9921087
43	.7671903	.8276114	.8767795	.9150572	.9435745	.9639098	.9777905	.9868399
44	.7043365	.7740732	.8331913	.8811250	.9183099	.9459155	.9655301	.9788691
45	.6348485	.7123950	.7808785	.8387097	.8854242	.9215292	.9488331	.9671343
46	.5608066	.6439111	.7203670	.7876094	.8441676	.8896766	.9247135	.9505850
47	.4847459	.5706014	.6528858	.7282568	.7942684	.8495659	.8938814	.9278609
48	.4093983	.4949851	.5803165	.6617784	.7360666	.8008577	.8549080	.8980377
49	.3374030	.4195751	.5050417	.5899579	.6708939	.7438061	.8073794	.8601888
50	.2710359	.3471945	.4297130	.5151013	.5995314	.6793378	.7514728	.8138381
51	.2120029	.2801052	.3569746	.4398169	.5251096	.6098484	.6880188	.7590708
52	.1613375	.2200923	.2891904	.3667468	.4498918	.5350719	.6184969	.6966846
53	.1193403	.1682773	.2282213	.2982937	.3768150	.4599424	.5449936	.6278968
54	.0857505	.1250926	.1753845	.2363908	.3074171	.3863829	.4699737	.5548798
55	.0598291	.0903463	.1309126	.1823485	.2446015	.3165641	.3960547	.4799905
56	.0404999	.0633552	.0950046	.1367986	.1894688	.2528547	.3257366	.4058344
57	.0265881	.0431120	.0669486	.0997312	.1427492	.1966484	.2611519	.3349380
58	.0169205	.0284531	.0457836	.0706068	.1045241	.1487635	.2038787	.2694951
59	.0104340	.0182040	.0303676	.0485124	.0743275	.1093817	.1548406	.2111693
60	.0062321	.0112855	.0195264	.0323295	.0512962	.0781086	.1143023	.1609808
61	.0036041	.0067765	.0121658	.0208859	.0343367	.0541326	.0819481	.1198847
62	.0020173	.0039396	.0073413	.0130737	.0222806	.0363871	.0570195	.0858448
63	.0010925	.0022166	.0042888	.0079255	.0140075	.0237088	.0384785	.0599847
64	.0005723	.0012066	.0024246	.0046510	.0085279	.0149658	.0251683	.0406087
65	.0002898	.0006352	.0013260	.0026410	.0050253	.0091473	.0159469	.0266573
66	.0001419	.0003232	.0007012	.0014504	.0028650	.0054109	.0097824	.0169491
67	.0000671	.0001590	.0003584	.0007701	.0015795	.0030961	.0058066	.0104317
68	.0000307	.0000755	.0001770	.0003982	.0008417	.0017128	.0033334	.0063118
69	.0000135	.0000346	.0000844	.0001958	.0004334	.0009187	.0018498	.0037863
70	.0000058	.0000153	.0000389	.0000937	.0002185	.0004789	.0009917	.0019898
71	.0000024	.0000066	.0000173	.0000433	.0001034	.0002387	.0005134	.0010493
72	.0000009	.0000027	.0000074	.0000193	.0000479	.0001134	.0002568	.0005147
73	.0000004	.0000011	.0000031	.0000083	.0000214	.0000526	.0001236	.0002476
74	.0000001	.0000004	.0000012	.0000034	.0000093	.0000235	.0000574	.0001140
75		.0000002	.0000005	.0000014	.0000038	.0000101	.0000257	.0000493
76		.0000001	.0000002	.0000005	.0000015	.0000042	.0000111	.0000209
77			.0000001	.0000002	.0000006	.0000017	.0000044	.0000086
78				.0000001	.0000002	.0000006	.0000018	.0000035
79					.0000001	.0000002	.0000007	.0000014
80						.0000001	.0000003	.0000006
81							.0000001	.0000003
82								.0000001

p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 113$$

c \ p	.49	.50
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	.9999999	1.0000000
30	.9999997	.9999999
31	.9999991	.9999997
32	.9999976	.9999991
33	.9999939	.9999977
34	.9999853	.9999943
35	.9999657	.9999861
36	.9999233	.9999670
37	.9998350	.9999280
38	.9996584	.9998453
39	.9993191	.9996796
40	.9986921	.9993612
41	.9975777	.9987721
42	.9956713	.9977332
43	.9928515	.9958252
44	.9875503	.9923563
45	.9799365	.9882330
46	.9687199	.9809907
47	.9527890	.9708846
48	.9309696	.9550220
49	.9021445	.9340379
50	.8654066	.9069006
51	.8202261	.8705690
52	.7666037	.8265534
53	.7051764	.7740734
54	.6378477	.7136719
55	.5647353	.6485589
56	.4899975	.5745650
57	.4156284	.5000000
58	.3441716	.4254350
59	.2770863	.3514
60	.2165188	.2866
61	.1671888	.2289266
62	.1243279	.1734466
63	.0897951	.1294310
64	.0629363	.0937994
65	.0427757	.0659621
66	.0284737	.0446778
67	.0179705	.0297154
68	.0110338	.0190093
69	.0066045	.0117670
70	.0038237	.0070437
71	.0021324	.0040748
72	.0011488	.0022768
73	.0005966	.0012379
74	.0002990	.0006398
75	.0001444	.0003204
76	.0000672	.0001548
77	.0000301	.0000720
78	.0000130	.0000322
79	.0000054	.0000139
80	.0000021	.0000057
81	.0000008	.0000023
82	.0000003	.00000
83	.0000001	.0000
84		.000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 114

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.68220109	.89005835	.96895460	.99047380	.99711370	.99913590	.99974470	.99928560
2	.31584417	.66975815	.85950019	.94522420	.97978890	.99284800	.99755400	.99918760
3	.10668661	.39439082	.66823930	.83869930	.92822735	.97017150	.99023780	.99556210
4	.02806068	.19851142	.44740000	.67299380	.82705030	.91613400	.96205890	.98379230
5	.00599714	.07942270	.25780530	.48139680	.67921110	.82041860	.90737080	.95539130
6	.00110526	.02547096	.12899350	.30576620	.50802800	.66600970	.81683380	.90105890
7	.00015190	.00822180	.05544456	.17282370	.34435460	.53015250	.69302260	.81522950
8	.00002215	.00215081	.02107060	.08773606	.21144610	.37666410	.54922460	.70007940
9	.00000295	.00050300	.00756040	.03973270	.11788560	.24562740	.40449640	.56615490
10	.00000037	.00010521	.00235860	.01635980	.05988900	.14711750	.27617890	.42899550
11		.00001990	.00066680	.00261340	.02783830	.08109490	.17476670	.32376300
12		.00000331	.00017210	.00091058	.01188960	.04125150	.10259850	.23008500
13		.00000635	.00004080	.00026520	.00468470	.01942240	.05597370	.12398960
14		.00000081	.00000890	.00019420	.00170940	.00849000	.02843840	.07153000
15			.00000180	.00005260	.00057970	.00345580	.01344650	.03863930
16			.00000020	.00001330	.00018330	.00131350	.00598370	.01957230
17			.00000010	.00000310	.00005420	.00046750	.00248950	.00931340
18				.00000070	.00001500	.00015620	.00097340	.00417080
19				.00000010	.00000390	.00004910	.00035840	.00176100
20					.00000100	.00001450	.00012450	.00067020
21					.00000020	.00000410	.00004090	.00026490
22						.00000110	.00001270	.00009470
23						.00000030	.00000370	.00003210
24						.00000010	.00000100	.00001030
25							.00000030	.00000320
26							.00000010	.00000090
27								.00000030
28								.00000010

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.99997860	.99999550	.99999630	.99999950	.99999990	1.00000000	1.00000000	1.00000000
2	.99973710	.99995170	.99997430	.99999220	.99999770	.99999930	.99999980	.99999990
3	.99938790	.99963350	.99978070	.99992610	.99997940	.99999350	.99999800	.99999940
4	.99340610	.99742850	.99903630	.99965020	.99987720	.99995810	.99998610	.99999550
5	.97973120	.99124940	.99638810	.99856850	.99945330	.99979850	.99992790	.99997500
6	.94998600	.97614270	.98911010	.99533230	.99806000	.99929250	.99977020	.99958890
7	.89653740	.94564960	.97302840	.98728370	.99427770	.99753310	.99897800	.99959210
8	.81498000	.89337670	.94220050	.97036950	.98556810	.99328130	.99700550	.99871900
9	.70709500	.81569980	.89126320	.93952030	.96813130	.98402390	.99233510	.99649470
10	.58142840	.71402910	.81710170	.88297470	.93746180	.96328140	.98286140	.99150470
11	.45092760	.59542580	.72085840	.81903630	.88931420	.93593560	.96476030	.98152470
12	.32890090	.47082830	.60039420	.72757400	.82156220	.88924020	.93485990	.96355280
13	.22531230	.35200120	.47899850	.62052380	.73417280	.82399350	.88956960	.93416650
14	.14492830	.24840620	.37338570	.50599760	.63195070	.74065520	.82686000	.89025430
15	.08757430	.16651590	.27022170	.39331080	.53175560	.64278120	.74702370	.82999090
16	.04975830	.10388530	.18521760	.29087730	.41198280	.53656130	.65309870	.75328170
17	.02661690	.06257100	.12021100	.20444910	.31049020	.42956940	.55054090	.66297010
18	.01343110	.03440440	.07389440	.13650820	.22306520	.32916390	.44638070	.56380440
19	.00639130	.01826590	.04304550	.08658190	.15266750	.24110210	.34699050	.46201530
20	.00289770	.00916080	.02379090	.05218290	.09951780	.16866390	.25852420	.36405280
21	.00122660	.00435530	.01247110	.02999180	.06179370	.11261130	.18436830	.27542010
22	.00049500	.00196550	.00611410	.01630160	.03656180	.07178920	.12579140	.19988510
23	.00019010	.00084270	.00294500	.00846180	.02062370	.04369700	.08209360	.13900340
24	.00006940	.00034170	.00133080	.00415560	.01109750	.02540450	.05124810	.09264320
25	.00002410	.00013350	.00057140	.00197460	.00570030	.01411340	.03060890	.05916090
26	.00000800	.00004960	.00023440	.00090910	.00279690	.00749640	.01749690	.03620160
27	.00000280	.00001750	.00009180	.00038250	.00131190	.00380900	.00957630	.02123180
28	.00000090	.00000590	.00003440	.00015730	.00058860	.00186580	.00502060	.01193830
29	.00000020	.00000190	.00001230	.00006190	.00025280	.00085270	.00254870	.00643820
30	.00000010	.00000060	.00000420	.00002330	.00010400	.00036530	.00121540	.00333130
31		.00000020	.00000140	.00000840	.00004100	.00016500	.00056180	.00165460
32			.00000040	.00000290	.00001550	.00006780	.00024930	.00078980
33			.00000010	.00000090	.00000560	.00002670	.00010620	.00034170
34				.00000030	.00000200	.00001010	.00004350	.00015930
35				.00000010	.00000070	.00000370	.00001710	.00006750
36					.00000020	.00000130	.00000650	.00002750
37					.00000010	.00000040	.00000240	.00001080
38						.00000010	.00000080	.00000410
39							.00000030	.00000150
40							.00000010	.00000050
41								.00000020
42								.00000010

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	.99999980	.99999990	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999880	.99999950	.99999980	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	.99999410	.99999730	.99999910	.99999970	.99999990	1.00000000	1.00000000	1.00000000
6	.99998600	.99999360	.99999650	.99999840	.99999950	.99999980	1.00000000	1.00000000
7	.99994290	.99997810	.99999260	.99999760	.99999930	.99999980	.99999990	.99999990
8	.99984780	.99992900	.99997010	.99999190	.99999750	.99999920	.99999970	.99999990
9	.99954570	.99973460	.99990330	.99996940	.99999300	.99999760	.99999920	.99999980
10	.99860850	.99931970	.99972180	.99992340	.99998240	.99999480	.99999850	.99999960
11	.99587420	.99755510	.99915150	.99980910	.99996130	.99998400	.99999650	.99999930
12	.98905440	.99306410	.99751410	.99947170	.99989680	.99995510	.99998930	.99999850
13	.97636160	.98297290	.99294820	.99875010	.99975000	.99988510	.99997010	.99999730
14	.95338050	.96192510	.98296460	.99698300	.99944300	.99973030	.99987420	.99994350
15	.91218310	.93137340	.96144550	.99285490	.99885660	.99941520	.99971260	.99986420
16	.84331030	.88245410	.92338060	.98311590	.99761590	.99882280	.99939090	.99969780
17	.75043320	.80640060	.86380830	.96202590	.99430290	.99778080	.99879640	.99937090
18	.64224490	.71654230	.78398010	.92954910	.98748130	.99610770	.99777260	.99877020
19	.52764410	.61158017	.67714330	.88432620	.97724040	.99355260	.99612470	.99776490
20	.41770850	.50885260	.56040360	.82677890	.96177560	.98991180	.99363760	.99615360

$$P(c,n,p) = \sum_{i=c}^{n} \binom{n}{i} p^i (1-p)^{n-i} \qquad n = 214$$

x	.17	.18	.19	.20	.21	.22	.23	.24
21	.3804219	.4914990	.6001208	.6989467	.7830559	.8503871	.9010861	.9373454
22	.2918002	.3961621	.5053264	.6112772	.7072374	.7887351	.8539066	.9031814
23	.2150692	.3076954	.4113300	.5166264	.6220399	.7152985	.7943308	.8575048
24	.1528052	.2300174	.3231388	.4259756	.5314500	.6324469	.7231494	.7998460
25	.1033846	.1659646	.2446957	.3381504	.4401435	.5438417	.6425511	.7308072
26	.0673868	.1142731	.1784573	.2591077	.3527667	.4538794	.5558402	.6523209
27	.0421483	.0758826	.1252716	.1914654	.2732597	.3670105	.4672007	.5674794
28	.0253001	.0484162	.0846102	.1363495	.2043760	.2871593	.3809062	.4801573
29	.0145778	.0296826	.0549747	.0935362	.1474815	.2171798	.3008156	.3944765
30	.0080662	.0174876	.0343598	.0617953	.1026315	.1586470	.2298710	.3148368
31	.0042858	.0099030	.0206589	.0393122	.0688521	.1118708	.1698292	.2424460
32	.0021882	.0053916	.0119506	.0240817	.0445210	.0761213	.1212323	.1810144
33	.0010739	.0028229	.0066524	.0142056	.0277452	.0499680	.0835815	.1306970
34	.0005068	.0014219	.0035642	.0080705	.0166643	.0316383	.0556361	.0912136
35	.0002300	.0006892	.0018385	.0044165	.0096469	.0193218	.0357498	.0615093
36	.0001005	.0003216	.0009132	.0023285	.0053832	.0113814	.0221725	.0400666
37	.0000423	.0001445	.0004370	.0011830	.0028961	.0064668	.0132728	.0252105
38	.0000171	.0000625	.0002015	.0005793	.0015023	.0035446	.0076687	.0153193
39	.0000067	.0000261	.0000895	.0002735	.0007516	.0018744	.0042768	.0089900
40	.0000025	.0000105	.0000383	.0001245	.0003627	.0009565	.0023024	.0050950
41	.0000009	.0000041	.0000158	.0000547	.0001689	.0004710	.0011966	.0027888
42	.0000003	.0000015	.0000063	.0000232	.0000759	.0002339	.0006004	.0014743
43	.0000001	.0000005	.0000024	.0000095	.0000329	.0001087	.0002909	.0007539
44		.0000002	.0000009	.0000037	.0000138	.0000485	.0001361	.0003714
45		.0000001	.0000003	.0000014	.0000056	.0000195	.0000615	.0001770
46			.0000001	.0000005	.0000022	.0000080	.0000269	.0000815
47				.0000002	.0000008	.0000032	.0000113	.0000362
48				.0000001	.0000003	.0000012	.0000046	.0000156
49					.0000001	.0000005	.0000018	.0000065
50						.0000002	.0000007	.0000026
51						.0000001	.0000003	.0000010
52							.0000001	.0000004
53								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999975	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999909	.9999967	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
12	.9999702	.9999887	.9999959	.9999985	.9999995	.9999998	.9999999	1.0000000
13	.9999108	.9999645	.9999864	.9999949	.9999982	.9999994	.9999998	.9999999
14	.9997554	.9998979	.9999588	.9999840	.9999940	.9999978	.9999993	.9999997
15	.9993819	.9997289	.9998853	.9999532	.9999815	.9999930	.9999974	.9999991
16	.9985519	.9993331	.9997040	.9998733	.9999477	.9999791	.9999920	.9999970
17	.9968399	.9984726	.9993891	.9996812	.9998622	.9999425	.9999769	.9999910
18	.9935502	.9967898	.9984046	.9992505	.9996608	.9998520	.9999377	.9999747
19	.9876410	.9934299	.9966415	.9983479	.9992175	.9996429	.9998429	.9999334
20	.9776886	.9875719	.9933467	.9965744	.9983026	.9991901	.9996877	.9998351
21	.9619306	.9777952	.9875582	.9932983	.9965277	.9982684	.9991686	.9996154
22	.9384187	.9624193	.9779749	.9875955	.9932885	.9965003	.9983451	.9991587
23	.9052883	.9395821	.9628913	.9768203	.9876793	.9932970	.9964913	.9983388
24	.8611144	.9074867	.9408238	.9636368	.9785248	.9870886	.9933398	.9964995
25	.8058835	.8647888	.9097361	.9421329	.9643472	.9780822	.9879704	.9934077
26	.7388865	.8104460	.8693486	.9130274	.9435001	.9651145	.9798866	.9881700
27	.6618412	.7456084	.8199356	.8719310	.9143525	.9449169	.9659316	.9797327
28	.5787894	.6711137	.7627601	.8211547	.8753499	.9167044	.9463758	.9667918
29	.4937716	.5897967	.6801577	.7597757	.8263058	.8791357	.9190766	.9478699
30	.4077484	.5050693	.6005248	.6889901	.7666562	.8313882	.8827851	.9214636
31	.3274371	.4207837	.5170739	.6109948	.6976260	.7734093	.8364060	.8868552
32	.2549033	.3404885	.4334586	.5288061	.6213854	.7060787	.7800419	.8413595
33	.1921917	.2672486	.3538046	.4459041	.5402853	.6312337	.7143804	.7865604
34	.1408488	.2033825	.2794652	.3657933	.4581360	.5515206	.6410347	.7228415
35	.0990001	.1498738	.2144902	.2915731	.3781987	.4701490	.5625519	.6506435
36	.0675784	.1069356	.1598602	.2255995	.3035691	.3904302	.4819568	.5733690
37	.0445837	.0738117	.1149767	.1692980	.2366769	.3154566	.4024978	.4935720
38	.0284294	.0498647	.0808143	.1231409	.1790769	.2477198	.3272394	.4144086
39	.0175182	.0328287	.0541614	.0867606	.1314079	.1888958	.2587866	.3389815
40	.0104306	.0198667	.0353835	.0592044	.0934639	.1397680	.1987150	.2696966
41	.0060009	.0119903	.0223612	.0391055	.0644046	.1002903	.1482138	.2086157
42	.0033358	.0069955	.0136681	.0249981	.0429820	.0697536	.1072553	.1567364
43	.0017918	.0039453	.0080796	.0154626	.0277736	.0470069	.0752435	.1143030
44	.0009300	.0021508	.0046186	.0092534	.0173783	.0306036	.0511738	.0808670
45	.0004664	.0011334	.0025531	.0053570	.0105169	.0193951	.0337841	.0554771
46	.0002361	.0005774	.0013646	.0029999	.0061611	.0118695	.0215890	.0368911
47	.0001159	.0002843	.0007053	.0016249	.0034988	.0070315	.0133105	.0237718
48	.0000479	.0001353	.0003525	.0008514	.0019155	.0040337	.0079884	.0148990
49	.0000210	.0000683	.0001703	.0004314	.0010164	.0022378	.0046193	.0089716
50	.0000089	.0000377	.0000796	.0002114	.0005317	.0012013	.0025910	.0052526
51	.0000036	.0000119	.0000360	.0001002	.0002591	.0006242	.0014069	.0029774
52	.0000014	.0000050	.0000157	.0000459	.0001244	.0003138	.0007393	.0016338
53	.0000005	.0000020	.0000066	.0000204	.0000578	.0001586	.0003789	.0008677
54	.0000002	.0000008	.0000027	.0000087	.0000260	.0000718	.0001850	.0004460
55	.0000001	.0000003	.0000011	.0000036	.0000113	.0000327	.0000880	.0002119
56		.0000001	.0000004	.0000015	.0000047	.0000144	.0000405	.0001068
57			.0000002	.0000006	.0000019	.0000061	.0000181	.0000497
58			.0000001	.0000002	.0000008	.0000025	.0000078	.0000224
59				.0000001	.0000003	.0000010	.0000032	.0000098
60					.0000001	.0000004	.0000013	.0000041

$$P(\geq r;n,p) = \sum_{r=r}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 114

r	.25	.26	.27	.28	.29	.30	.31	.32
61						.0000021	.0000005	.0000017
62						.0000001	.0000002	.0000007
63							.0000001	.0000003
64								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	.9999997	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	.9999989	.9999996	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	.9999966	.9999988	.9999996	.9999999	1.00000000	1.00000000	1.00000000	1.00000000
18	.9999901	.9999963	.9999986	.9999995	.9999998	.9999999	1.00000000	1.00000000
19	.9999727	.9999892	.9999959	.9999985	.9999995	.9999998	.9999999	1.00000000
20	.9999296	.9999710	.9999885	.9999956	.9999984	.9999994	.9999998	.9999999
21	.9998286	.9999264	.9999695	.9999870	.9999953	.9999983	.9999994	.9999998
22	.9996060	.9998235	.9999238	.9999683	.9999873	.9999951	.9999982	.9999993
23	.9991424	.9995993	.9998197	.9999218	.9999673	.9999869	.9999949	.9999981
24	.9982291	.9991375	.9995955	.9998173	.9999205	.9999667	.9999866	.9999948
25	.9965236	.9982354	.9991377	.9995943	.9998162	.9999198	.9999663	.9999864
26	.9934994	.9965625	.9982504	.9991428	.9998957	.9998164	.9999198	.9999662
27	.9884006	.9936123	.9966148	.9982734	.9995523	.9995995	.9998179	.9999803
28	.9802156	.9886591	.9937445	.9966795	.9983037	.9991661	.9996088	.9998204
29	.9676892	.9807306	.9889421	.9938937	.9967551	.9983408	.9991836	.9996136
30	.9493930	.9686184	.9812736	.9892467	.9940580	.9968407	.9983838	.9993046
31	.9238601	.9509395	.9695743	.9818406	.9895700	.9943367	.9969349	.9984321
32	.8897835	.9262616	.9525043	.9705522	.9824278	.9899094	.9944847	.9970362
33	.8462500	.8932876	.9286638	.9540827	.9715479	.9830318	.9902628	.9946238
34	.7929702	.8510784	.8967652	.9310628	.9556703	.9728574	.9836493	.9906868
35	.7304518	.7992763	.8558456	.9002144	.9334850	.9578631	.9738769	.9848774
36	.6600607	.7382798	.8054830	.8605521	.9036331	.9358372	.9588575	.9746031
37	.5839983	.6693051	.7459733	.8115941	.8651986	.9070196	.9382061	.9604499
38	.5050067	.5944406	.6784218	.7535391	.8176131	.8697884	.9103721	.9405590
39	.4261731	.5162717	.6047168	.6873679	.7609835	.8235449	.8743186	.9136888
40	.3505075	.4377991	.5273774	.6148340	.6961717	.7693180	.8293868	.8787805
41	.2806296	.3620017	.4492944	.5383335	.6248017	.7048410	.7758896	.8351451
42	.2185103	.2915263	.3734088	.4606668	.5491489	.6346284	.7133825	.7836408
43	.1653315	.2284240	.3023877	.3847337	.4719235	.5598320	.6443880	.7218024
44	.1214741	.1739931	.2383544	.3132153	.3959810	.4850717	.5703907	.6538899
45	.0866174	.1287466	.1827170	.2483002	.3240109	.4071586	.4941181	.5808384
46	.0599112	.0924804	.1361148	.1914995	.2582605	.3347768	.4188683	.5050691
47	.0401805	.0644708	.0984746	.1435739	.2003375	.2688380	.3455183	.4293057
48	.0261203	.0435885	.0691509	.1045706	.1511196	.2098888	.2788837	.3568891
49	.0164539	.0285727	.0471111	.0739469	.1107730	.1587483	.2181714	.2888878
50	.0100410	.0181536	.0311263	.0507448	.0788546	.1170746	.1664570	.2271648
51	.0059349	.0111760	.0199368	.0337783	.0544860	.0838700	.1234747	.1748430
52	.0033969	.0066652	.0123760	.0218019	.0365261	.0583518	.0889893	.1299601
53	.0018824	.0038499	.0074435	.0136401	.0237470	.0393672	.0628773	.0948093
54	.0010098	.0021533	.0043366	.0082695	.0149673	.0257704	.0438991	.0663818
55	.0005243	.0011660	.0024467	.0048569	.0091426	.0163567	.0278703	.0483191
56	.0002635	.0006112	.0013366	.0027628	.0054108	.0100684	.0170868	.0300448
57	.0001281	.0003101	.0007068	.0015818	.0031016	.0059979	.0110880	.0191364
58	.0000603	.0001522	.0003618	.0008115	.0017217	.0034631	.0068180	.0118387
59	.0000274	.0000725	.0001792	.0004188	.0009252	.0019363	.0038471	.0070706
60	.0000121	.0000332	.0000859	.0002091	.0004812	.0010481	.0021667	.0040554
61	.0000051	.0000148	.0000398	.0001011	.0002428	.0005491	.0011808	.0022096
62	.0000021	.0000063	.0000176	.0000472	.0001179	.0002783	.0006185	.0012315
63	.0000008	.0000026	.0000077	.0000213	.0000555	.0001365	.0003176	.0007013
64	.0000003	.0000011	.0000038	.0000093	.0000253	.0000647	.0001568	.0003601
65	.0000001	.0000004	.0000013	.0000039	.0000111	.0000297	.0000748	.0001788
66		.0000002	.0000005	.0000016	.0000047	.0000131	.0000345	.0000858
67		.0000001	.0000002	.0000006	.0000019	.0000056	.0000154	.0000398
68			.0000001	.0000002	.0000008	.0000023	.0000066	.0000179
69				.0000001	.0000003	.0000009	.0000029	.0000077
70					.0000001	.0000004	.0000011	.0000033
71						.0000001	.0000004	.0000013
72							.0000002	.0000005
73							.0000001	.0000002
74								.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 114

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999947	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
26	.9999863	.9999947	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000
27	.9999664	.9999864	.9999947	.9999980	.9999993	.9999998	.9999999	1.0000000
28	.9999214	.9999669	.9999866	.9999943	.9999980	.9999993	.9999998	.9999999
29	.9998240	.9999229	.9999676	.9999869	.9999949	.9999981	.9999993	.9999998
30	.9996235	.9998286	.9999250	.9999685	.9999873	.9999951	.9999982	.9999993
31	.9992286	.9996350	.9998340	.9999275	.9999695	.9999877	.9999953	.9999982
32	.9984850	.9992552	.9996480	.9998402	.9999303	.9999708	.9999883	.9999955
33	.9971447	.9985419	.9993842	.9996623	.9998470	.9999334	.9999722	.9999889
34	.9948304	.9972582	.9988020	.9993150	.9996775	.9998543	.9999368	.9999737
35	.9909990	.9950436	.9977761	.9986649	.9993473	.9996936	.9998620	.9999404
36	.9849132	.9913785	.9952622	.9974973	.9987398	.9993809	.9997103	.9998700
37	.9756387	.9855541	.9917628	.9954843	.9976210	.9987962	.9994153	.9997475
38	.9620371	.9766627	.9861975	.9921499	.9957086	.9977463	.9988636	.9994502
39	.9428930	.9636161	.9776903	.9866412	.9925381	.9959341	.9978724	.9989315
40	.9169681	.9452056	.9651840	.9787139	.9874089	.9929257	.9961594	.9979984
41	.8831889	.9202085	.9474942	.9667381	.9797278	.9881207	.9933112	.9963835
42	.8406218	.8875377	.9234081	.9497864	.9683758	.9807329	.9887524	.9936931
43	.7896495	.8464177	.8918066	.9265655	.9519901	.9697947	.9817259	.9893765
44	.7301065	.7965592	.8519342	.8960552	.9296790	.9541929	.9712925	.9827047
45	.6633386	.7382998	.8033730	.8573724	.9002229	.9327469	.9563627	.9727670
46	.5911638	.6736743	.7463870	.8100935	.8627331	.9043288	.9357677	.9584975
47	.5159308	.6043915	.6819047	.7543720	.8167230	.8680168	.9083725	.9387397
48	.4402908	.5327092	.6113213	.6910289	.7622585	.8232635	.8732239	.9123520
49	.3662211	.4612221	.5374098	.6215589	.7000575	.7700498	.8297164	.8780344
50	.2982464	.3975943	.4621043	.5480382	.6315095	.7089929	.7777487	.8360851
51	.2362064	.3382827	.3882521	.4729420	.5585941	.6413780	.7178388	.7853577
52	.1821044	.2858977	.3183376	.3986976	.4837340	.5690983	.6511688	.7265988
53	.1365550	.1900396	.2544380	.3284131	.4095345	.4945020	.5795397	.6608861
54	.0995270	.1432302	.1980474	.2636281	.3385113	.4201663	.5052331	.5899280
55	.0704602	.1049397	.1499925	.2061271	.2728686	.3486347	.4307966	.5159374
56	.0484249	.0746915	.1104450	.1568405	.2142785	.2821610	.3587861	.4414894
57	.0322919	.0516142	.0790127	.1160408	.1637730	.2225017	.2915067	.3689683
58	.0208842	.0346098	.0548845	.0834215	.1217254	.1707892	.2307971	.3009076
59	.0130935	.0225086	.0369965	.0582339	.0879160	.1274973	.1778885	.2391657
60	.0079549	.0141913	.0241881	.0394500	.0616603	.0924942	.1333553	.1850710
61	.0046816	.0086703	.0153309	.0259211	.0419685	.0651615	.0971546	.1392986
62	.0026679	.0051311	.0094158	.0165110	.0277059	.0445500	.0687359	.1018956
63	.0014717	.0029402	.0056014	.0101907	.0177304	.0295408	.0471987	.0723816
64	.0007856	.0016308	.0032862	.0060918	.0109037	.0189876	.0314241	.0498948
65	.0004057	.0008752	.0017984	.0035254	.0066015	.0118230	.0202810	.0333540
66	.0002026	.0004542	.0009698	.0019743	.0038372	.0071297	.0126797	.0216091
67	.0000978	.0002280	.0005058	.0010655	.0021580	.0041609	.0076753	.0135401
68	.0000456	.0001106	.0002550	.0005601	.0011737	.0023491	.0044958	.0082373
69	.0000205	.0000518	.0001242	.0002835	.0006171	.0012824	.0025471	.0048418
70	.0000089	.0000234	.0000584	.0001387	.0003135	.0006766	.0013950	.0027513
71	.0000038	.0000102	.0000266	.0000655	.0001538	.0003448	.0007388	.0015112
72	.0000015	.0000043	.0000115	.0000298	.0000729	.0001697	.0003772	.0008017
73	.0000006	.0000018	.0000049	.0000131	.0000333	.0000806	.0001861	.0004107
74	.0000002	.0000007	.0000020	.0000056	.0000147	.0000369	.0000885	.0002029
75	.0000001	.0000003	.0000008	.0000023	.0000062	.0000163	.0000406	.0000967
76		.0000001	.0000003	.0000009	.0000026	.0000069	.0000180	.0000444
77			.0000001	.0000003	.0000010	.0000028	.0000076	.0000197
78				.0000001	.0000004	.0000011	.0000031	.0000084
79					.0000001	.0000004	.0000012	.0000034
80						.0000002	.0000005	.0000013
81						.0000001	.0000002	.0000005
82							.0000001	.0000002
83								.0000001

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 114$$

x	.49	.50
83	1.0000000	1.0000000
84	1.0000000	1.0000000
85	1.0000000	1.0000000
86	1.0000000	1.0000000
87	1.0000000	1.0000000
88	1.0000000	1.0000000
89	.9999998	1.0000000
90	.9999998	.9999999
91	.9999994	.9999998
92	.9999983	.9999994
93	.9999957	.9999984
94	.9999895	.9999960
95	.9999753	.9999908
96	.9999441	.9999770
97	.9998788	.9999479
98	.9997449	.9998866
99	.9994853	.9997624
100	.9989993	.9995204
101	.9981837	.9990666
102	.9966055	.9982477
103	.9940700	.9968242
104	.9899911	.9944407
105	.9836673	.9905946
106	.9743160	.9846118
107	.9605951	.9756377
108	.9416611	.9626537
109	.9162688	.9445303
110	.8834081	.9201198
111	.8423645	.8883848
112	.7928787	.8485612
113	.7352758	.8003134
114	.6705338	.7438726
115	.6003674	.6801155
116	.5266191	.6105630
117	.4520603	.5378035
118	.3791845	.4637175
119	.3103661	.3904380
120	.2476086	.3198847
121	.1923368	.2561274
122	.1453265	.1996666
123	.1067163	.1514388
124	.0760971	.1116152
125	.0526544	.0798808
126	.0353287	.0554697
127	.0229701	.0373463
128	.0144634	.0243633
129	.0088143	.0153802
130	.0051960	.0094054
131	.0029611	.0055593
132	.0016305	.0031758
133	.0008669	.0017523
134	.0004448	.0009334
135	.0002202	.0004796
136	.0001050	.0002376
137	.0000483	.0001134
138	.0000214	.0000521
139	.0000091	.0000230
140	.0000037	.0000098
141	.0000015	.0000040
142	.0000006	.0000016
143	.0000002	.0000006
144	.0000001	.0000002
145		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c = 25

n	.01	.02	.03	.04	.05	.06	.07	.08
1	.6881900	.9880813	.9898673	.9908548	.9973571	.9991877	.9997626	.9999315
2	.3195034	.6781717	.8627855	.9470342	.9806551	.9932253	.9977074	.9992457
3	.1089561	.4047607	.6739772	.8429303	.9304493	.9715321	.9908899	.9965521
4	.0380489	.1991999	.4540258	.6796220	.8321115	.9193763	.9638914	.9847339
5	.0061983	.0817365	.2635513	.4890607	.6866030	.8261615	.9112064	.9576634
6	.0011117	.0285185	.1337723	.3127915	.5165879	.6940742	.8311714	.9254035
7	.0001709	.0086069	.0586193	.1781414	.3525383	.5395040	.7016894	.8220958
8	.0000899	.0022794	.0229079	.0907791	.2180916	.3858734	.5593072	.7002917
9	.0000087	.0005361	.0079975	.0416378	.1225636	.2534096	.4146806	.5870680
10	.0000003	.0001131	.0025149	.0172947	.0627889	.1530281	.2851611	.4399688
11		.0000216	.0007176	.0065431	.0294408	.0850563	.1810655	.3137016
12		.0000038	.0001870	.0022670	.0126870	.0436421	.1076503	.2090417
13		.0000006	.0000447	.0007268	.0050479	.0207322	.0592374	.1301078
14		.0000001	.0000099	.0002130	.0018582	.0091459	.0303659	.0757843
15			.0000020	.0000583	.0006362	.0037599	.0145331	.0412706
16			.0000004	.0000148	.0002031	.0014421	.0065019	.0210976
17			.0000001	.0000035	.0000606	.0005183	.0027341	.0101311
18				.0000008	.0000170	.0001743	.0010795	.0045822
19				.0000002	.0000045	.0000555	.0004014	.0019538
20					.0000011	.0000156	.0001409	.0007869
21					.0000003	.0000047	.0000467	.0002999
22					.0000001	.0000013	.0000147	.0001083
23						.0000003	.0000044	.0000371
24						.0000001	.0000013	.0000121
25							.0000003	.0000037
26							.0000001	.0000011
27								.0000003
28								.0000001

n	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999805	.9999945	.9999985	.9999996	.9999999	1.0000000	1.0000000	1.0000000
2	.9997589	.9999247	.9999770	.9999931	.9999980	.9999994	.9999998	1.0000000
3	.9985094	.9994821	.9998355	.9999428	.9999818	.9999943	.9999983	.9999995
4	.9938847	.9976299	.9991202	.9996845	.9998905	.9999631	.9999879	.9999964
5	.9809647	.9918674	.9966793	.9986983	.9995084	.9998307	.9999367	.9999783
6	.9526634	.9776534	.9899819	.9957126	.9983411	.9993060	.9997360	.9999029
7	.9013478	.9486989	.9748050	.9884484	.9947394	.9977701	.9990866	.9996305
8	.8283802	.8986031	.9435996	.9733992	.9866916	.9930766	.9973088	.9990587
9	.7360053	.8234593	.8968473	.9432222	.9703967	.9853199	.9930511	.9976506
10	.6327384	.7341951	.8252805	.8959201	.9414409	.9687594	.9841332	.9943014
11	.4626787	.6073843	.7314451	.8275471	.8955981	.9401835	.9674485	.9831215
12	.3398833	.4838879	.6207653	.7385493	.8301996	.8987775	.9374430	.9664278
13	.2346353	.3638839	.5022093	.6333698	.7455074	.8331286	.8963633	.9380699
14	.1531688	.2587675	.3861137	.5197320	.6452396	.7523936	.8362664	.8972806
15	.0937361	.1736734	.2815697	.4068320	.5360810	.6564855	.7589991	.8355645
16	.0531618	.1100103	.1945681	.3031693	.4262530	.5514321	.6671175	.7655423
17	.0286996	.0657999	.1273618	.2148205	.3236842	.4445403	.5659746	.6774199
18	.0146106	.0371931	.0789892	.1446611	.2344305	.3432207	.4611806	.5796709
19	.0070341	.0198578	.0464389	.0925730	.1610192	.2534136	.3618736	.4783015
20	.0031936	.0100713	.0259000	.0563108	.1064272	.1787758	.2717948	.3797830
21	.0013752	.0048358	.0137152	.0325755	.0666979	.1204543	.1954917	.2896011
22	.0005616	.0022043	.0067033	.0179336	.0398419	.0775042	.1348779	.2119432
23	.0002178	.0009549	.0033046	.0094026	.0226952	.0476299	.0886483	.1487390
24	.0000801	.0003936	.0015065	.0046967	.0123359	.0279654	.0558749	.1000609
25	.0000282	.0001544	.0006547	.0022399	.0064019	.0156942	.0337048	.0645581
26	.0000094	.0000579	.0002714	.0010154	.0031743	.0083220	.0194637	.0398751
27	.0000030	.0000207	.0001075	.0004433	.0015049	.0043263	.0107644	.0236269
28	.0000009	.0000071	.0000407	.0001843	.0006826	.0021265	.0057040	.0133853
29	.0000003	.0000023	.0000147	.0000734	.0002965	.0010016	.0030974	.0073103
30	.0000001	.0000007	.0000051	.0000280	.0001234	.0004528	.0014115	.0038284
31		.0000002	.0000017	.0000102	.0000492	.0001958	.0006599	.0019829
32		.0000001	.0000005	.0000036	.0000188	.0000814	.0002962	.0009977
33			.0000002	.0000012	.0000069	.0000325	.0001277	.0004801
34				.0000004	.0000024	.0000124	.0000529	.0002197
35				.0000001	.0000008	.0000046	.0000221	.0000929
36					.0000003	.0000016	.0000081	.0000379
37					.0000001	.0000006	.0000030	.0000155
38						.0000002	.0000011	.0000061
39						.0000001	.0000004	.0000019
40							.0000001	.0000007
41								.0000002
42								.0000001

n	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999928	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
6	.9999654	.9999881	.9999960	.9999987	.9999996	.9999999	1.0000000	1.0000000
7	.9998626	.9999495	.9999820	.9999938	.9999979	.9999993	.9999998	.9999999
8	.9995383	.9998178	.9999308	.9999746	.9999910	.9999969	.9999990	.9999997
9	.9986898	.9994265	.9997607	.9999099	.9999661	.9999877	.9999957	.9999985
10	.9964848	.9984060	.9993165	.9997177	.9998875	.9999567	.9999839	.9999948
11	.9916376	.9960315	.9981923	.9992052	.9996660	.9998641	.9999466	.9999797
12	.9828788	.9910561	.9956751	.9979923	.9991039	.9995140	.9998404	.9999369
13	.9656643	.9815908	.9905578	.9953580	.9978082	.9988057	.9995654	.9998170
14	.9387034	.9651885	.9810473	.9901400	.9950815	.9976438	.9988126	.9995181
15	.8984707	.9388003	.9647939	.9806358	.9897993	.9948456	.9973903	.9988323
16	.8489852	.8988860	.9391229	.9646371	.9803449	.9895314	.9946497	.9973729
17	.7719571	.8464975	.9014880	.9396391	.9646374	.9801675	.9893118	.9944926
18	.6878368	.7732490	.8500782	.9032450	.9403017	.9647761	.9800812	.9891957
19	.5927688	.6966838	.7844232	.8537085	.9051307	.9411473	.9650374	.9800086

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 115

x	.17	.18	.19	.20	.21	.22	.23	.24
20	.4939756	.6088763	.7057992	.7904843	.8573732	.9071233	.9420964	.9654064
21	.3968546	.5089639	.6172745	.7146153	.7964370	.8610599	.9098043	.9431511
22	.3066659	.4133886	.5293374	.6388111	.7331593	.8022854	.8647585	.9113580
23	.2281135	.3336194	.4491893	.5571566	.6599314	.7314545	.8080332	.8684600
24	.1628981	.2699994	.3798827	.4845058	.5904739	.6506748	.7395811	.8136041
25	.1116841	.2177002	.2595993	.4213155	.5237179	.5633549	.6610735	.7473765
26	.0735064	.1754695	.1910486	.3674163	.4711158	.4736664	.5757791	.6711576
27	.0464388	.0887989	.1353769	.3049939	.4099561	.3861803	.4875878	.5876411
28	.0281643	.0533601	.0923358	.1473787	.3160415	.3047266	.4007539	.5011146
29	.0164006	.0330546	.0606054	.1080988	.1594894	.2385753	.3198364	.4180390
30	.0091784	.0196882	.0388766	.0681435	.1120500	.1715243	.2461883	.3334954
31	.0049283	.0112482	.0238681	.0430088	.0759458	.1281616	.1836388	.2596768
32	.0025448	.0062036	.0136052	.0271878	.0496305	.0839062	.1384096	.1957380
33	.0012633	.0032853	.0076591	.0161809	.0312661	.0557317	.0988412	.1487738
34	.0006032	.0016741	.0041510	.0092976	.0189913	.0356708	.0680636	.1006896
35	.0002771	.0008211	.0021664	.0051473	.0111206	.0220314	.0403837	.0606383
36	.0001225	.0003877	.0010890	.0027461	.0062786	.0131283	.0232953	.0452143
37	.0000521	.0001763	.0005275	.0014121	.0034184	.0073480	.0153198	.0287748
38	.0000214	.0000773	.0002468	.0007001	.0017950	.0041074	.0089577	.0176938
39	.0000084	.0000326	.0001108	.0003347	.0009092	.0022419	.0050569	.0105090
40	.0000032	.0000133	.0000481	.0001543	.0004444	.0011584	.0027565	.0060898
41	.0000012	.0000052	.0000201	.0000666	.0002096	.0005778	.0014509	.0033483
42	.0000004	.0000020	.0000081	.0000295	.0000954	.0002782	.0007376	.0017898
43	.0000001	.0000007	.0000032	.0000122	.0000419	.0001294	.0003621	.0009860
44		.0000003	.0000012	.0000049	.0000178	.0000581	.0001717	.0004689
45		.0000001	.0000004	.0000019	.0000073	.0000288	.0000787	.0002036
46			.0000002	.0000007	.0000029	.0000106	.0000348	.0001044
47			.0000001	.0000003	.0000011	.0000043	.0000149	.0000471
48				.0000001	.0000004	.0000017	.0000062	.0000205
49					.0000001	.0000006	.0000025	.0000087
50					.0000001	.0000002	.0000010	.0000035
51						.0000001	.0000004	.0000014
52							.0000001	.0000005
53								.0000002
54								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999926	.9999974	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
12	.9999754	.9999908	.9999967	.9999988	.9999996	.9999999	1.0000000	1.0000000
13	.9999256	.9999708	.9999889	.9999959	.9999986	.9999995	.9999998	.9999999
14	.9997943	.9999158	.9999663	.9999870	.9999952	.9999983	.9999994	.9999998
15	.9994753	.9997738	.9999058	.9999618	.9999851	.9999944	.9999980	.9999993
16	.9987594	.9994360	.9997530	.9998957	.9999575	.9999833	.9999937	.9999977
17	.9973679	.9986963	.9994018	.9997350	.9998870	.9999535	.9999815	.9999949
18	.9943786	.9971839	.9986434	.9993711	.9997198	.9998791	.9999498	.9999799
19	.9891183	.9943879	.9971175	.9986006	.9993460	.9997086	.9998783	.9999466
20	.9801767	.9890950	.9948363	.9970710	.9985679	.9993860	.9996945	.9998668
21	.9658701	.9803371	.9911811	.9942156	.9970424	.9985450	.9993109	.9996857
22	.9442947	.9664170	.9850584	.9891983	.9942836	.9970308	.9985314	.9993008
23	.9133709	.9455198	.9750369	.9808454	.9893048	.9942880	.9970360	.9985867
24	.8721379	.9158315	.9600090	.9677808	.9811796	.9894631	.9943166	.9970539
25	.8198413	.8756459	.9181298	.9481540	.9684587	.9815592	.9896349	.9943971
26	.7550358	.8247075	.8795189	.9204569	.9495458	.9692446	.9819786	.9898460
27	.6805585	.7685182	.8300655	.8831784	.9226053	.9509762	.9700716	.9824286
28	.5995524	.6904802	.7698175	.8353777	.8860027	.9251681	.9524381	.9709389
29	.5148760	.6109391	.6997603	.7769610	.8405860	.8904063	.9275394	.9533849
30	.4289997	.5270085	.6220257	.7088101	.7839543	.8457125	.8939808	.9289136
31	.3475134	.4426536	.5396056	.6328334	.7176447	.7908029	.8507587	.8975819
32	.2730367	.3613008	.4560301	.5518190	.6433816	.7262779	.7975148	.8557861
33	.2078696	.2862494	.3748677	.4691167	.5637579	.6536872	.7347816	.8040961
34	.1538345	.2199639	.2993748	.3882843	.4819593	.5754401	.6637687	.7439868
35	.1093188	.1637703	.2380334	.3123548	.4013805	.4945629	.5868816	.6736308
36	.0754293	.1180988	.1743913	.2440721	.3252117	.4143459	.5069413	.5980970
37	.0503309	.0834813	.1270148	.1850635	.2560757	.3379487	.4271897	.5191073
38	.0324680	.0576617	.0896002	.1360649	.1957883	.2660409	.3505693	.4397409
39	.0202460	.0363588	.0611957	.0969589	.1452385	.2008430	.2799656	.3630774
40	.0122085	.0219758	.0404536	.0669224	.1044676	.1545064	.2173579	.2918484
41	.0071083	.0140388	.0258772	.0447338	.0730318	.1121336	.1638775	.2301616
42	.0040021	.0088942	.0160152	.0289488	.0491946	.0788146	.1199418	.1733378
43	.0021778	.0054383	.0095885	.0181326	.0321840	.0538509	.0851688	.1278017
44	.0011454	.0032174	.0055531	.0109920	.0203887	.0358806	.0586384	.0915665
45	.0005883	.0018979	.0031100	.0064480	.0125049	.0232817	.0391335	.0635019
46	.0002868	.0007819	.0016855	.0036599	.0074243	.0141978	.0253095	.0428396
47	.0001360	.0003605	.0008833	.0020099	.0042664	.0084889	.0158588	.0279298
48	.0000624	.0001741	.0004478	.0010679	.0023788	.0049317	.0096844	.0176974
49	.0000277	.0000813	.0002195	.0005490	.0012771	.0027756	.0056588	.0108498
50	.0000119	.0000367	.0001041	.0002730	.0006658	.0015181	.0031894	.0064487
51	.0000049	.0000160	.0000477	.0001313	.0003352	.0007973	.0017740	.0037084
52	.0000020	.0000068	.0000212	.0000611	.0001635	.0004069	.0009463	.0020837
53	.0000008	.0000028	.0000091	.0000275	.0000771	.0002009	.0004866	.0011189
54	.0000003	.0000011	.0000038	.0000120	.0000352	.0000960	.0002448	.0005810
55	.0000001	.0000004	.0000015	.0000050	.0000155	.0000444	.0001181	.0002936

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 115

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
56		.0000002	.0000006	.0000021	.0000064	.0001199	.0000553	.0001436
57		.0000001	.0000002	.0000008	.0000027	.0000086	.0000260	.0000680
58			.0000001	.0000003	.0000011	.0000036	.0000110	.0000311
59				.0000001	.0000004	.0000015	.0000046	.0000138
60					.0000002	.0000006	.0000019	.0000059
61					.0000001	.0000002	.0000008	.0000025
62						.0000001	.0000003	.0000010
63							.0000001	.0000004
64								.0000001
65								.0000001

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999998	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999974	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999932	.9999971	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000
19	.9999785	.9999916	.9999969	.9999989	.9999996	.9999999	1.0000000	1.0000000
20	.9999438	.9999778	.9999911	.9999966	.9999988	.9999996	.9999999	1.0000000
21	.9998619	.9999415	.9999752	.9999906	.9999964	.9999987	.9999995	.9999998
22	.9996794	.9998304	.9999398	.9999783	.9999903	.9999963	.9999986	.9999995
23	.9992984	.9996755	.9998561	.9999386	.9999747	.9999900	.9999958	.9999986
24	.9985305	.9992945	.9996740	.9998549	.9999378	.9999744	.9999898	.9999961
25	.9970864	.9985481	.9993979	.9996746	.9998548	.9999376	.9999748	.9999897
26	.9944974	.9971313	.9988609	.9993053	.9996773	.9998557	.9999379	.9999743
27	.9900832	.9944154	.9977073	.9985864	.9993144	.9996019	.9998376	.9999387
28	.9829166	.9903438	.9947491	.9972533	.9986177	.9993308	.9996803	.9998604
29	.9718889	.9834865	.9906889	.9948946	.9973881	.9986544	.9993488	.9996963
30	.9554307	.9727366	.9839576	.9909196	.9950860	.9974107	.9986257	.9993608
31	.9328860	.9569503	.9736691	.9845068	.9912306	.9958856	.9974999	.9987411
32	.9010888	.9346881	.9584788	.9744160	.9850704	.9933534	.9954037	.9978948
33	.8606161	.9044997	.9370079	.9600117	.9755735	.9896488	.9921654	.9958867
34	.8105886	.8684875	.9079897	.9393499	.9615450	.9765376	.9868803	.9923851
35	.7510889	.8184890	.8701474	.9113198	.9416747	.9630749	.9775051	.9843149
36	.6838951	.7590184	.8231099	.8748305	.9146678	.9439780	.9645901	.9704788
37	.6090995	.6928427	.7668017	.8292190	.8792194	.9177705	.9468408	.9441118
38	.5310789	.6199813	.7028648	.7744389	.8358197	.8839344	.9218873	.9048114
39	.4551808	.5488491	.6305158	.7111895	.7819364	.8411180	.8883788	.8443469
40	.3784771	.4644798	.5544468	.6409468	.7201581	.7898997	.8469078	.7687438
41	.3036893	.3877788	.4764834	.5658737	.6518086	.7309600	.7965337	.6858993
42	.2390097	.3154979	.3999688	.4884868	.5771404	.6613098	.7376199	.5934485
43	.1886805	.2498788	.3272481	.4130496	.5004969	.5888546	.6718566	.4941378
44	.1359471	.1984196	.2607661	.3389819	.4240797	.5122406	.5998839	.4001849
45	.0981801	.1441304	.2021991	.2716497	.3506399	.4360037	.5238644	.3190584
46	.0687848	.1040168	.1524836	.2119478	.2885088	.3688807	.4478460	.2535744
47	.0469916	.0730960	.1114484	.1608871	.2317690	.3053807	.3738866	.1996111
48	.0307608	.0504804	.0794148	.1196119	.1819308	.2515311	.3044774	.1561797
49	.0196438	.0334701	.0548850	.0867715	.1387006	.2079309	.2411810	.1214879
50	.0121873	.0216961	.0367310	.0590876	.0986640	.1589106	.1868856	.0931894
51	.0073899	.0135484	.0238531	.0398868	.0658084	.0964877	.1408378	.0704115
52	.0043344	.0081909	.0150283	.0261134	.0431713	.0686389	.1024366	.0527787
53	.0023888	.0046871	.0091699	.0165783	.0284753	.0465735	.0736960	.0386132
54	.0012978	.0025388	.0054840	.0101089	.0181158	.0309378	.0500964	.0274748
55	.0006846	.0013017	.0031098	.0060854	.0112978	.0199339	.0334978	.0192800
56	.0003496	.0007990	.0017898	.0035167	.0067916	.0124848	.0217316	.0131845
57	.0001788	.0004184	.0009873	.0019884	.0039840	.0075184	.0136717	.0088078
58	.0000906	.0002139	.0005285	.0010678	.0022543	.0044844	.0083379	.0058198
59	.0000383	.0001053	.0002731	.0005431	.0012199	.0025158	.0049278	.0037778
60	.0000171	.0000485	.0001308	.0002846	.0006455	.0013856	.0028814	.0024603
61	.0000074	.0000210	.0000589	.0001400	.0003306	.0007307	.0015645	.0015471
62	.0000031	.0000090	.0000255	.0000666	.0001639	.0003818	.0008400	.0009847
63	.0000013	.0000039	.0000113	.0000307	.0000786	.0001904	.0004368	.0006194
64	.0000005	.0000016	.0000048	.0000137	.0000365	.0000980	.0002198	.0003946
65	.0000002	.0000006	.0000020	.0000059	.0000164	.0000430	.0001068	.0002513
66	.0000001	.0000002	.0000008	.0000024	.0000071	.0000194	.0000508	.0001830
67		.0000001	.0000003	.0000010	.0000030	.0000085	.0000229	.0000868
68			.0000001	.0000004	.0000012	.0000036	.0000100	.0000367
69				.0000001	.0000005	.0000015	.0000043	.0000138
70				.0000001	.0000002	.0000006	.0000018	.0000050
71					.0000001	.0000002	.0000007	.0000021
72						.0000001	.0000003	.0000008
73							.0000001	.0000003
74								.0000001

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(r \geq R) = \sum_{r=R}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 11$$

N \ p	.41	.42	.43	.44	.45	.46	.47	.48
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	.99999999	1.00000000	1.00001000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	.99999998	.99999999	1.00001000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	.99999995	.99999998	.99991999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	.99999986	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
25	.99999961	.99999986	.99999995	.99999998	.99999999	1.00000000	1.00000000	1.00000000
26	.99999898	.99999961	.99999986	.99999995	.99999998	.99999999	1.00000000	1.00000000
27	.99999746	.99999899	.99999961	.99999986	.99999995	.99999998	.99999999	1.00000000
28	.99999398	.99999751	.99999901	.99999964	.99999986	.99999995	.99999998	.99999999
29	.99998639	.99999414	.99999787	.99999904	.99999963	.99999987	.99999995	.99999998
30	.99997057	.99998602	.99999433	.99999766	.99999907	.99999965	.99999987	.99999996
31	.99993905	.99997163	.99998731	.99999455	.99999775	.99999911	.99999966	.99999988
32	.99987899	.99994147	.99997380	.99998706	.99999400	.99999786	.99999916	.99999969
33	.99976948	.99988415	.99994406	.99997406	.99998045	.99999506	.99999798	.99999900
34	.99957793	.99977974	.99988953	.99994678	.99997538	.99998907	.99999534	.99999810
35	.99925699	.99959739	.99979032	.99989509	.99994959	.99997675	.99996971	.99995864
36	.99874084	.99929179	.99961712	.99980111	.99990077	.99995847	.99993016	.99990038
37	.99794377	.99880063	.99938675	.99963706	.99981800	.99990659	.99985540	.99979589
38	.99676113	.99803971	.99885906	.99934170	.99965492	.99982393	.99971889	.99954833
39	.99507481	.99690957	.99813284	.99891770	.99939648	.99967877	.99943303	.99911803
40	.99275975	.99529320	.99705617	.99828895	.99897577	.99943096	.99896245	.99844463
41	.98970384	.99307072	.99551008	.99720070	.99821174	.99903310	.99846499	.99771187
42	.98581903	.99012594	.99337651	.99572284	.99734898	.99841313	.99788951	.99669443
43	.98106301	.98636881	.99054067	.99367695	.99593186	.99746263	.99650884	.99514484
44	.97545198	.98174958	.98690880	.99094797	.99397190	.99613697	.99481964	.99290771
45	.96907134	.97627666	.98240543	.98743928	.99134781	.99436181	.99233797	.98973371
46	.96207555	.97003371	.97706910	.98308969	.98796035	.99174011	.98934478	.98533468
47	.95467763	.96313303	.97096305	.97788894	.98374276	.98847803	.98518488	.98008854
48	.94713038	.95590757	.96417053	.97166998	.97867675	.98478500	.98077437	.97380105
49	.93970027	.94882447	.95692770	.96521252	.97300480	.98045261	.97601445	.96646736
50	.93264030	.94085100	.94944057	.95803873	.96693561	.97570791	.97021736	.95837353
51	.92616428	.93239936	.94200085	.95059444	.96054010	.97069668	.96454968	.94997059
52	.92042368	.92417514	.93484008	.94314778	.95414866	.96583470	.95885037	.94180030
53	.91553503	.91732480	.92819149	.93594263	.94799269	.96138084	.95338306	.93435787
54	.91147085	.91288901	.92213953	.92921335	.94234710	.95743607	.94851578	.92832879
55	.90823776	.91010217	.91706561	.92314275	.93734078	.95415293	.94457818	.92514898
56	.90574594	.90873957	.91274504	.91703466	.93406441	.95127389	.94196310	.92771932
57	.90390065	.90813046	.90935986	.91339607	.93265005	.94894480	.94031880	.93037496
58	.90255614	.90817516	.90658596	.91077740	.93241465	.94758769	.93993306	.93357707
59	.90160877	.90875911	.90446803	.90893168	.93321308	.94741116	.94027554	.93666010
60	.90100617	.90976845	.90296957	.90777149	.93454753	.94859856	.94248849	.93910364
61	.90060336	.91092491	.90191355	.90718738	.93588296	.95077346	.94544669	.94124693
62	.90034935	.91206175	.90119503	.90706515	.93691240	.95403125	.94880527	.94298490
63	.90019631	.91298604	.90070416	.90739716	.93731194	.95764450	.95273180	.94454484
64	.90010669	.91361807	.90043475	.90809953	.93740552	.96136481	.95698354	.94606885
65	.90005614	.91411935	.90024184	.90946540	.93685780	.96515198	.96155183	.94813936
66	.90002658	.91446310	.90013261	.91026568	.93502011	.96929890	.96625583	.95173466
67	.90001407	.91463230	.90007053	.91146776	.93291136	.97455265	.97100874	.95774836
68	.90000670	.91461599	.90003686	.91307842	.93016167	.98131885	.97599902	.96679688
69	.90000306	.91440765	.90001804	.91504052	.92680616	.98977731	.98134630	.97964713
70	.90000137	.91400554	.90000867	.91732024	.92304501	.99999358	.98719365	.99737144
71	.90000059	.91350158	.90000403	.91980977	.91903357	.01049774	.99310469	.01581064
72	.90000024	.91300668	.90000181	.92240455	.91501093	.02099502	.99865469	.03114483
73	.90000010	.91260043	.90000078	.92500203	.91130511	.03101816	.00327759	.04659384
74	.90000004	.91230011	.90000033	.92750069	.90820231	.04005570	.00701344	.06030286
75	.90000001	.91209004	.90000013	.92980037	.90581100	.04750858	.00960631	.07001477
76	.90000001	.91200602	.90000005	.93180015	.90400848	.05330113	.01120864	.07600695
77		.91200001	.90000002	.93340006	.90266017	.05747047	.01203136	.07900315
78			.90000001	.93460002	.90164983	.06028183	.01232136	.08000136
79				.93540001	.90088002	.06203019	.01232136	.08000057
80					.90033001	.06307303	.01232136	.08000023
81						.06360001	.01232136	.08000009
82							.01232136	.08000003
83								.08000001

N \ p	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000

$$P(r,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 115

r	.49	.50
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	1.00000000	1.00000000
22	1.00000000	1.00000000
23	1.00000000	1.00000000
24	1.00000000	1.00000000
25	1.00000000	1.00000000
26	1.00000000	1.00000000
27	1.00000000	1.00000000
28	1.00000000	1.00000000
29	.9999999	1.00000000
30	.9999998	1.00000000
31	.9999996	.9999999
32	.9999988	.9999999
33	.9999970	.9999999
34	.9999936	.9999978
35	.9999883	.9999931
36	.9999594	.9999836
37	.9999105	.9999684
38	.9998108	.9999178
39	.9996185	.9998245
40	.9990375	.9996414
41	.99855200	.99989135
42	.99734494	.99965571
43	.99531184	.99785359
44	.99199847	.99543384
45	.98677659	.99081177
46	.97884471	.98760328
47	.96786674	.98018247
48	.95093068	.96914457
49	.92867110	.95359280
50	.89955099	.93252448
51	.86284759	.90405580
52	.82171867	.86847730
53	.77635018	.82443373
54	.72888374	.77800330
55	.68448979	.73119939
56	.64870468	.64853884
57	.60655088	.58758889
58	.54148775	.50000000
59	.47440871	.41241223
60	.41783398	.35546614
61	.36194300	.29800061
62	.31603615	.24879970
63	.27356357	.20785627
64	.23711004	.17315170
65	.20641413	.09574800
66	.04301103	.06767758
67	.03990288	.04644080
68	.01883317	.03068543
69	.01158884	.01987753
70	.00699690	.01239268
71	.00403568	.00748883
72	.00228805	.00439674
73	.00124410	.00248641
74	.00066517	.00134488
75	.00033303	.00070668
76	.00016414	.00035866
77	.00007761	.00017755
78	.00003545	.00008280
79	.00001551	.00003774
80	.00000664	.00001664
81	.00000286	.00000693
82	.00000010	.00000288
83	.00000004	.00000111
84	.00000001	.00000044
85		.00000001

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 116

p	.01	.02	.03	.04	.05	.06	.07	.08
1	.6883388	.8640103	.9107907	.9910206	.9973948	.9993365	.9997758	.9999270
2	.3831603	.4876695	.6659986	.8447870	.9614359	.9895030	.9970818	.9990014
3	.1110616	.2101089	.3779414	.6071938	.8333596	.9730337	.9920078	.9981837
4	.0296499	.0833111	.1904837	.3661555	.6370402	.9385086	.9788413	.9953834
5	.0064189	.0240950	.0678655	.1966831	.4238785	.8317544	.9540943	.9890896
6	.0011688	.0059888	.0196957	.0819438	.2350887	.7019994	.8993338	.9758841
7	.0001803	.0012058	.0060439	.0305974	.1136406	.5407788	.7910931	.9387644
8	.0000244	.0002439	.0019798	.0094736	.0484159	.3850518	.6592740	.8710188
9	.0000029	.0000709	.0005444	.0026035	.0187402	.2614386	.4847541	.7877487
10	.0000003	.0001815	.0001794	.0006684	.0065776	.1590588	.2942838	.6899805
11		.0000834	.0000715	.0001732	.0021062	.0891246	.1800268	.5838748
12		.0000041	.0000229	.0000300	.0013547	.0461870	.1138483	.4817888
13		.0000007	.0000490	.0000846	.0005470	.0221044	.0644883	.3934888
14		.0000001	.0000109	.0000224	.0000175	.0094411	.0343089	.3080788
15			.0000023	.0000044	.0000073	.0044811	.0156414	.2440889
16			.0000004	.0000166	.0000248	.0015810	.0070704	.1887118
17			.0000001	.0000040	.0000078	.0005737	.0031883	.1411188
18				.0000009	.0000022	.0001954	.0013883	.1034885
19				.0000002	.0000051	.0000657	.0004889	.0741488
20					.0000013	.0000189	.0001891	.0000845
21					.0000001	.0000054	.0000333	.0003388
22					.0000001	.0000018	.0000149	.0001358
23						.0000004	.0000061	.0000488
24						.0000001	.0000018	.0000141
25							.0000004	.0000044
26							.0000001	.0000013
27								.0000004
28								.0000001

p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999083	.9999951	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
2	.9997788	.9999316	.9999793	.9999939	.9999985	.9999998	1.0000000	1.0000000
3	.9986918	.9995363	.9998481	.9999469	.9999839	.9999956	.9999988	.9999998
4	.9942736	.9978151	.9991977	.9997155	.9999033	.9999678	.9999905	.9999967
5	.9881248	.9934437	.9969478	.9988166	.9995581	.9998408	.9999444	.9999818
6	.9758105	.9890748	.9907186	.9960709	.9988059	.9996781	.9999661	.9999180
7	.9589648	.9818944	.9764755	.9891441	.9958208	.9989851	.9997898	.9999017
8	.9294387	.9696187	.9488103	.9743011	.9877417	.9964817	.9991898	.9996936
9	.8863017	.9309737	.9022279	.9447235	.9705151	.9893179	.9973188	.9991719
10	.8039044	.8741817	.8331353	.9015964	.9435191	.9710779	.9854708	.9930307
11	.6743786	.7897534	.7417647	.8357819	.8915887	.9211836	.9498506	.9848906
12	.5202311	.6555775	.6339401	.7408883	.8207014	.8538603	.9038603	.9616000
13	.3641076	.5058243	.5138505	.6439915	.7363174	.7648388	.8403893	.9134791
14	.2348854	.3698793	.3988833	.5333465	.6388744	.6743353	.7618402	.8533321
15	.1380845	.2591888	.2930694	.4203800	.5308716	.5699010	.6708898	.7808994
16	.0767834	.1763766	.2041383	.3154089	.4206309	.4661393	.5808398	.6923858
17	.0389018	.1108809	.1347545	.2254283	.3170188	.3696180	.4911140	.6091588
18	.0188746	.0660530	.0841102	.1530803	.2260335	.2874065	.4074895	.5353107
19	.0077069	.0376183	.0500194	.0988836	.1572566	.2159866	.3368713	.4748004
20	.0035384	.0210539	.0281593	.0606683	.1053988	.1598281	.2803041	.4284897
21	.0015389	.0093594	.0150585	.0354837	.0718627	.1206193	.2369371	.3940814
22	.0006348	.0054674	.0074318	.0196906	.0433338	.0835178	.1937180	.3643674
23	.0002488	.0010799	.0037003	.0104263	.0249217	.0518163	.1518877	.3358118
24	.0000987	.0004498	.0017043	.0050639	.0136887	.0307185	.1107909	.3078494
25	.0000329	.0001785	.0007484	.0023549	.0071733	.0174288	.0770305	.2798049
26	.0000111	.0000675	.0003136	.0011659	.0035939	.0094408	.0515998	.2519100
27	.0000036	.0000244	.0001255	.0005184	.0017819	.0048969	.0330493	.2243668
28	.0000011	.0000084	.0000480	.0002184	.0007855	.0024343	.0204636	.1979378
29	.0000003	.0000028	.0000176	.0000867	.0003447	.0011591	.0123104	.1729853
30	.0000001	.0000009	.0000062	.0000334	.0001459	.0005091	.0071344	.1494888
31		.0000003	.0000021	.0000123	.0000589	.0002317	.0037784	.1278878
32		.0000001	.0000007	.0000044	.0000228	.0000879	.0019507	.1080869
33			.0000002	.0000015	.0000085	.0000319	.0009530	.0902897
34			.0000001	.0000005	.0000030	.0000113	.0004441	.0743898
35				.0000002	.0000010	.0000037	.0001858	.0606897
36					.0000003	.0000080	.0000100	.0000416
37					.0000001	.0000027	.0000037	.0000167
38						.0000008	.0000013	.0000065
39						.0000001	.0000005	.0000024
40							.0000002	.0000009
41							.0000001	.0000003
42								.0000001

p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999990	.9999997	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999930	.9999980	.9999994	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999701	.9999898	.9999966	.9999989	.9999997	.9999999	1.0000000	1.0000000
7	.9998808	.9999564	.9999867	.9999963	.9999991	.9999998	.9999999	1.0000000
8	.9995910	.9998413	.9999608	.9999884	.9999974	.9999994	.9999999	.9999999
9	.9987837	.9994969	.9998998	.9999713	.9999927	.9999984	.9999998	.9999999
10	.9967996	.9985897	.9994094	.9997841	.9999040	.9999795	.9999955	.9999988
11	.9924514	.9954889	.9984069	.9993101	.9997123	.9999045	.9999588	.9999838
12	.9838693	.9918817	.9961533	.9980395	.9992817	.9998647	.9998648	.9999648
13	.9684887	.9839945	.9915301	.9958949	.9980008	.9991395	.9996887	.9998458
14	.9438647	.9720517	.9836343	.9911836	.9954848	.9970434	.9990643	.9995888
15	.9053107	.9435394	.9678880	.9825367	.9909086	.9934612	.9978840	.9989970
16	.8524177	.9068906	.9440004	.9678369	.9823301	.9867095	.9953049	.9977838
17	.7840318	.8561074	.9086386	.9446387	.9679358	.9748844	.9903548	.9951839
18	.7016392	.7905337	.8598461	.9105938	.9454280	.9561614	.9808069	.9894489
19	.6088234	.7111455	.7968976	.8636158	.9125208	.9283458	.9604975	.9758743

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 116

r	.17	.18	.19	.20	.21	.22	.23	.24
20	.5107694	.6217296	.7207378	.8031292	.8674023	.9146067	.9473728	.9689301
21	.4133658	.5063082	.6340942	.7297891	.8092336	.8711938	.9167695	.9484924
22	.3221640	.4305382	.5411854	.6459719	.7385476	.8152158	.8749809	.9189883
23	.2415014	.3597660	.4470775	.5554875	.6574092	.7470373	.8210800	.8787555
24	.1739797	.2583310	.3568591	.4630359	.5692600	.6684459	.7552789	.8266303
25	.1203895	.1890616	.2748551	.3734735	.4784607	.5825495	.6791163	.7632903
26	.0799966	.1331054	.2040684	.2910761	.3896382	.4933935	.5953968	.6894501
27	.0510403	.0901147	.1459533	.2189784	.3069997	.4053805	.5078710	.6078373
28	.0312709	.0586580	.1008136	.1588969	.2337756	.3226332	.4207257	.5219290
29	.0184004	.0367096	.0666342	.1111536	.1719059	.2484486	.3379855	.4356978
30	.0104012	.0220897	.0425191	.0749346	.1219997	.1849555	.2629894	.3530660
31	.0056498	.0127828	.0261148	.0486757	.0835277	.1330214	.1980852	.2773928
32	.0029500	.0071152	.0154400	.0304640	.0551567	.0923048	.1441923	.2110984
33	.0014812	.0038106	.0087688	.0183702	.0351242	.0619399	.1014799	.1554896
34	.0007154	.0019641	.0048175	.0106742	.0215694	.0400820	.0690044	.1107897
35	.0003325	.0009746	.0025435	.0059774	.0127734	.0250321	.0453230	.0763506
36	.0001488	.0004657	.0012937	.0032864	.0072954	.0150870	.0287518	.0508361
37	.0000641	.0002144	.0006342	.0016789	.0040190	.0087757	.0176141	.0327216
38	.0000266	.0000951	.0002996	.0008425	.0021359	.0049268	.0104210	.0203532
39	.0000106	.0000407	.0001365	.0004078	.0010952	.0026699	.0059541	.0122332
40	.0000041	.0000168	.0000600	.0001904	.0005420	.0013968	.0032856	.0071048
41	.0000015	.0000067	.0000254	.0000858	.0002589	.0007055	.0017812	.0039873
42	.0000005	.0000026	.0000104	.0000373	.0001194	.0003442	.0009016	.0021624
43	.0000002	.0000009	.0000041	.0000157	.0000531	.0001621	.0004485	.0011333
44	.0000001	.0000003	.0000016	.0000063	.0000228	.0000738	.0002155	.0005741
45		.0000001	.0000006	.0000025	.0000095	.0000324	.0001001	.0002811
46			.0000002	.0000009	.0000038	.0000138	.0000449	.0001330
47			.0000001	.0000003	.0000015	.0000057	.0000195	.0000609
48				.0000001	.0000006	.0000022	.0000082	.0000269
49					.0000002	.0000009	.0000033	.0000115
50					.0000001	.0000003	.0000013	.0000048
51						.0000001	.0000005	.0000019
52							.0000002	.0000007
53							.0000001	.0000003
54								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999984	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999939	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
12	.9999797	.9999925	.9999973	.9999991	.9999997	.9999999	1.0000000	1.0000000
13	.9999381	.9999760	.9999910	.9999968	.9999989	.9999996	.9999999	1.0000000
14	.9998271	.9999297	.9999724	.9999895	.9999962	.9999986	.9999995	.9999998
15	.9995550	.9998098	.9999217	.9999689	.9999881	.9999956	.9999984	.9999995
16	.9989384	.9995236	.9997941	.9999112	.9999655	.9999866	.9999950	.9999982
17	.9976408	.9988886	.9994961	.9997800	.9999074	.9999684	.9999853	.9999944
18	.9950965	.9975764	.9988480	.9994730	.9997678	.9999014	.9999597	.9999841
19	.9904319	.9950406	.9975295	.9988164	.9994542	.9997577	.9998963	.9999573
20	.9824121	.9904451	.9950142	.9974993	.9987936	.9994599	.9997496	.9999292
21	.9694467	.9826142	.9905022	.9950151	.9974848	.9987753	.9994298	.9997436
22	.9496900	.9700363	.9828732	.9905988	.9950410	.9974850	.9987730	.9994240
23	.9218583	.9509531	.9706887	.9831025	.9907309	.9950898	.9974989	.9987744
24	.8835111	.9235505	.9523705	.9713953	.9838358	.9908945	.9951593	.9975258
25	.8324704	.8862421	.9258731	.9536325	.9721478	.9839274	.9910862	.9952473
26	.7710871	.8380039	.8899438	.9282121	.9550305	.9729391	.9843520	.9913024
27	.6994733	.7786830	.8434385	.8936121	.9305600	.9564568	.9737628	.9848049
28	.6199084	.7092085	.7860899	.8487602	.8972434	.9329106	.9579045	.9746128
29	.5385951	.6316198	.7186758	.7933183	.8539888	.9008348	.9352580	.9593674
30	.4583188	.5488970	.6430140	.7278926	.8003775	.8591206	.9043036	.9375972
31	.3870850	.4646092	.5618590	.6541069	.7368745	.8072758	.8641574	.9078878
32	.3216559	.3824525	.4785882	.5745030	.6649179	.7456354	.8140204	.8691008
33	.2641614	.3057775	.3967789	.4922733	.5868488	.6754644	.7541875	.8206177
34	.2146933	.2372034	.3197579	.4108748	.5056805	.5989142	.6857620	.7625418
35	.1729928	.1783866	.2502156	.3335982	.4247484	.5180261	.6107157	.6950347
36	.0839001	.1299706	.1899547	.2631913	.3473007	.4384110	.5317228	.6222678
37	.0566055	.0916958	.1398060	.2015852	.2761251	.3600678	.4518713	.5443840
38	.0369337	.0626192	.0997020	.1497842	.2132674	.2890132	.3743030	.4651332
39	.0233015	.0413805	.0688649	.1079043	.1590919	.2249924	.3018527	.3876097
40	.0148134	.0264560	.0460539	.0753309	.1162894	.1701173	.2367525	.3146418
41	.0083819	.0163618	.0298129	.0509462	.0820062	.1248455	.1804502	.2485414
42	.0047786	.0097876	.0186780	.0333680	.0560494	.0888803	.1335615	.1908814
43	.0026239	.0056628	.0113337	.0211609	.0371171	.0613560	.0959437	.1424276
44	.0014038	.0031688	.0066427	.0129914	.0238093	.0410557	.0668587	.1031624
45	.0007231	.0017150	.0037702	.0077203	.0147912	.0266213	.0451791	.0725506
46	.0003602	.0008977	.0020703	.0044406	.0088977	.0167235	.0295949	.0494829
47	.0001735	.0004545	.0010999	.0024719	.0051822	.0101762	.0187881	.0327278
48	.0000808	.0002326	.0005654	.0013317	.0029220	.0059971	.0115569	.0209846
49	.0000364	.0001054	.0002811	.0006943	.0015949	.0034224	.0068868	.0130406
50	.0000159	.0000483	.0001353	.0003503	.0008426	.0018911	.0039750	.0078528
51	.0000067	.0000214	.0000630	.0001710	.0004309	.0010117	.0022220	.0045613
52	.0000027	.0000092	.0000284	.0000803	.0002133	.0005240	.0012028	.0025891
53	.0000011	.0000038	.0000124	.0000369	.0001022	.0002627	.0006305	.0014171
54	.0000004	.0000015	.0000052	.0000163	.0000474	.0001275	.0003199	.0007512
55	.0000002	.0000006	.0000021	.0000070	.0000212	.0000599	.0001572	.0003855

$$P(c,n,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 116

c	.25	.26	.27	.28	.29	.30	.31	.32
56	.0000001	.0000002	.0000008	.0000029	.0000092	.0000272	.0000747	.0001916
57		.0000001	.0000003	.0000012	.0000039	.0000120	.0000344	.0000922
58			.0000001	.0000004	.0000016	.0000051	.0000153	.0000429
59				.0000002	.0000006	.0000021	.0000066	.0000193
60				.0000001	.0000002	.0000008	.0000028	.0000084
61					.0000001	.0000003	.0000011	.0000036
62						.0000001	.0000004	.0000015
63							.0000002	.0000006
64							.0000001	.0000002
65								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999939	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
19	.9999830	.9999935	.9999976	.9999991	.9999997	.9999999	1.0000000	1.0000000
20	.9999553	.9999821	.9999931	.9999974	.9999991	.9999997	.9999999	1.0000000
21	.9998890	.9999537	.9999814	.9999928	.9999973	.9999990	.9999997	.9999999
22	.9997397	.9998867	.9999525	.9999808	.9999935	.9999972	.9999990	.9999997
23	.9994221	.9997377	.9998854	.9999518	.9999805	.9999924	.9999971	.9999990
24	.9987829	.9994241	.9997377	.9998850	.9999515	.9999803	.9999923	.9999971
25	.9975630	.9987979	.9994295	.9997395	.9998858	.9999516	.9999803	.9999923
26	.9953518	.9976110	.9988189	.9994383	.9997430	.9998068	.9999521	.9999805
27	.9915399	.9954708	.9976681	.9988452	.9994499	.9997480	.9998889	.9999529
28	.9852816	.9917957	.9956024	.9977332	.9988762	.9994642	.9997543	.9998917
29	.9754838	.9857780	.9920671	.9957450	.9978053	.9989114	.9994808	.9997619
30	.9608402	.9763711	.9862905	.9923513	.9956967	.9978833	.9989508	.9994994
31	.9399257	.9623177	.9772701	.9868154	.9926460	.9960559	.9979663	.9989919
32	.9113436	.9429335	.9637954	.9791767	.9873497	.9929488	.9962218	.9980533
33	.8739523	.9147509	.9445227	.9682693	.9790873	.9878903	.9932376	.9963912
34	.8270735	.8787131	.9181071	.9467882	.9667,55	.9799985	.9884347	.9935706
35	.7707079	.8333928	.8833848	.9214106	.9490467	.9681908	.9809072	.9889802
36	.7056651	.7786946	.8395800	.8879667	.9246600	.9512355	.9696318	.9818104
37	.6335840	.7158943	.7868095	.8456391	.8924611	.9278536	.9534180	.9710558
38	.5568217	.6446766	.7247227	.7941597	.8515736	.8960680	.9309901	.9555537
39	.4788202	.5690469	.6555565	.7339593	.8016512	.8573864	.9011879	.9344683
40	.4007018	.4911353	.5810698	.6662338	.7430123	.8089895	.8630801	.9054210
41	.3273793	.4138532	.5038614	.5928998	.6767177	.7518891	.8161795	.8686571
42	.2603540	.3400648	.4267979	.5164357	.6045456	.6870165	.7605968	.8238852
43	.2014031	.2721859	.3526984	.4396302	.5288550	.6160184	.6971377	.7691397
44	.1514351	.2120085	.2840337	.3652807	.4523541	.5411260	.6273163	.7070881
45	.1106030	.1605760	.2226917	.2958949	.3778126	.4649738	.5538546	.6384552
46	.0784249	.1181830	.1698432	.2334476	.3077673	.3902955	.4774938	.5652468
47	.0539624	.0844754	.1259206	.1793305	.2442721	.3196496	.4027308	.4899164
48	.0360175	.0586133	.0906962	.1338093	.1887386	.2551616	.3315409	.4151803
49	.0233128	.0394616	.0634318	.0970820	.1418436	.1983446	.2661133	.3434407
50	.0146278	.0257700	.0430574	.0684122	.1036276	.1500183	.2080624	.2771248
51	.0088961	.0163186	.0283569	.0468023	.0735588	.1103284	.1583890	.2178827
52	.0052427	.0100177	.0181131	.0310716	.0506938	.0788476	.1171803	.1667718
53	.0029934	.0059603	.0112182	.0200109	.0339128	.0547293	.0842950	.1241794
54	.0016557	.0034363	.0067351	.0124980	.0220118	.0368790	.0589063	.0898912
55	.0008869	.0019194	.0039187	.0075677	.0138574	.0241152	.0399688	.0632886
56	.0004601	.0010385	.0022092	.0044414	.0084589	.0152965	.0263903	.0431807
57	.0002311	.0005442	.0012065	.0025259	.0050052	.0094089	.0168151	.0288965
58	.0001124	.0002761	.0006382	.0013917	.0028700	.0056105	.0104181	.0184130
59	.0000529	.0001354	.0003269	.0007427	.0015945	.0032822	.0062578	.0113066
60	.0000241	.0000645	.0001621	.0003838	.0008580	.0018184	.0036429	.0069473
61	.0000106	.0000297	.0000778	.0001920	.0004471	.0009845	.0020547	.0040784
62	.0000045	.0000132	.0000362	.0000930	.0002256	.0005171	.0011886	.0023129
63	.0000019	.0000057	.0000163	.0000436	.0001102	.0002639	.0006539	.0012723
64	.0000007	.0000024	.0000071	.0000198	.0000521	.0001294	.0003548	.0006777
65	.0000003	.0000010	.0000030	.0000087	.0000236	.0000616	.0001808	.0003494
66	.0000001	.0000004	.0000012	.0000037	.0000105	.0000284	.0000783	.0001744
67		.0000001	.0000005	.0000015	.0000045	.0000126	.0000335	.0000848
68		.0000001	.0000002	.0000006	.0000019	.0000054	.0000150	.0000393
69			.0000001	.0000002	.0000007	.0000023	.0000065	.0000177
70				.0000001	.0000003	.0000009	.0000027	.0000077
71					.0000001	.0000004	.0000011	.0000023
72						.0000001	.0000004	.0000010
73							.0000002	.0000004
74							.0000001	.0000002
75								.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 116

r	.41	.42	.43	.44	.45	.46	.47	.48
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999971	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999924	.9999971	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000
27	.9999808	.9999925	.9999972	.9999990	.9999996	.9999999	1.0000000	1.0000000
28	.9999541	.9999813	.9999927	.9999972	.9999990	.9999997	.9999999	1.0000000
29	.9998951	.9999555	.9999819	.9999929	.9999973	.9999990	.9999997	.9999999
30	.9997706	.9998990	.9999573	.9999826	.9999932	.9999975	.9999991	.9999997
31	.9995197	.9997801	.9998033	.9999592	.9999834	.9999936	.9999976	.9999991
32	.9990361	.9995414	.9997904	.9999080	.9999613	.9999843	.9999939	.9999977
33	.9981434	.9990822	.9995642	.9998013	.9999130	.9999635	.9999853	.9999943
34	.9965644	.9982359	.9991298	.9995878	.9998126	.9999182	.9999658	.9999863
35	.9938857	.9967397	.9983298	.9991783	.9996120	.9998242	.9999236	.9999682
36	.9895246	.9942014	.9969160	.9984246	.9992274	.9996364	.9998359	.9999290
37	.9827057	.9900657	.9945101	.9970921	.9985195	.9992766	.9996610	.9998477
38	.9724601	.9835904	.9906017	.9948283	.9972671	.9986138	.9993255	.9996653
39	.9576585	.9730423	.9844625	.9911306	.9951368	.9974400	.9987071	.9993738
40	.9370867	.9597242	.9752000	.9853199	.9916509	.9954403	.9976102	.9989787
41	.9095676	.9400442	.9617490	.9765312	.9861607	.9921611	.9957377	.9977767
42	.8741192	.9136275	.9429395	.9637309	.9778340	.9869831	.9926598	.9960281
43	.8301306	.8794681	.9176008	.9457714	.9656684	.9791066	.9877857	.9931457
44	.7775047	.8368989	.8847050	.9214872	.9485388	.9675597	.9803473	.9885670
45	.7160736	.7857858	.8435328	.8898311	.9252865	.9512406	.9694035	.9815547
46	.6494382	.7265004	.7938372	.8500347	.8948470	.9285982	.9536756	.9711982
47	.5771078	.6602711	.7359728	.8017724	.8564057	.8997535	.9326218	.9564427
48	.5022472	.5886426	.6709589	.7452553	.8095646	.8626504	.9045508	.9361569
49	.4274659	.5144893	.6004560	.6815063	.7544718	.8171162	.8687670	.9092392
50	.3553489	.4397696	.5266463	.6119522	.6919175	.7635056	.8247295	.8747575
51	.2881945	.3672658	.4520337	.5387217	.6233352	.7021960	.7723997	.8321063
52	.2278024	.2993211	.3791961	.4642603	.5507187	.6346086	.7123453	.7811564
53	.1753432	.2378194	.3105038	.3911287	.4764518	.5626404	.6457756	.7223681
54	.1313224	.1840404	.2479317	.3217423	.4030766	.4886103	.5744098	.6560392
55	.0956333	.1386064	.1928610	.2581381	.3330366	.4150371	.5007382	.5862697
56	.0676758	.1015107	.1460289	.2018030	.2684378	.3443871	.4270119	.5128378
57	.0465132	.0722641	.1075456	.1535876	.2106651	.2788302	.3557944	.4390025
58	.0310329	.0499647	.0769853	.1137102	.1612(10	.2200462	.2893154	.3672597
59	.0200899	.0335385	.0535340	.0818378	.1200127	.1691076	.2293458	.2998938
60	.0126144	.0218453	.0361425	.0572196	.0868200	.1264510	.1770667	.2307638
61	.0076792	.0138012	.0236787	.0388439	.0610203	.0919307	.1330239	.1851575
62	.0045308	.0084536	.0150468	.0255893	.0416416	.0649318	.0971685	.1397308
63	.0025900	.0050184	.0092702	.0163508	.0275765	.0445347	.0689621	.1025327
64	.0014339	.0028862	.0055350	.0101889	.0177186	.0296394	.0475222	.0731019
65	.0007687	.0016076	.0032015	.0060805	.0110293	.0191317	.0317773	.0506031
66	.0003988	.0008669	.0017932	.0035358	.0066547	.0119709	.0206073	.0339892
67	.0002002	.0004524	.0009723	.0019908	.0038690	.0072573	.0128531	.0221386
68	.0000972	.0002284	.0005101	.0010849	.0021003	.0042608	.0078876	.0139753
69	.0000457	.0001115	.0002582	.0005720	.0011047	.0024214	.0046508	.0085453
70	.0000207	.0000526	.0001270	.0002917	.0006380	.0013314	.0026539	.0050585
71	.0000091	.0000240	.0000602	.0001438	.0003267	.0007080	.0014650	.0028975
72	.0000038	.0000106	.0000276	.0000685	.0001617	.0003639	.0007819	.0016351
73	.0000016	.0000042	.0000118	.0000315	.0000773	.0001808	.0004033	.0009194
74	.0000006	.0000018	.0000052	.0000140	.0000357	.0000867	.0002009	.0004446
75	.0000002	.0000007	.0000022	.0000060	.0000159	.0000401	.0000966	.0002221
76	.0000001	.0000003	.0000009	.0000025	.0000068	.0000179	.0000448	.0001071
77		.0000001	.0000003	.0000010	.0000028	.0000077	.0000201	.0000498
78			.0000001	.0000004	.0000011	.0000032	.0000087	.0000233
79				.0000001	.0000004	.0000013	.0000036	.0000096
80					.0000002	.0000005	.0000014	.0000040
81					.0000001	.0000002	.0000006	.0000016
82						.0000001	.0000002	.0000006
83							.0000001	.0000002
84								.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

p	.49	.50
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	.9999999	1.0000000
31	.9999997	.9999999
32	.9999992	.9999997
33	.9999979	.9999993
34	.9999947	.9999981
35	.9999873	.9999952
36	.9999706	.9999883
37	.9999345	.9999730
38	.9998594	.9999390
39	.9997094	.9998709
40	.9994212	.9997330
41	.9988803	.9994675
42	.9979391	.9989753
43	.9963105	.9980965
44	.9936170	.9965042
45	.9893256	.9940751
46	.9837274	.9900604
47	.9729425	.9838640
48	.9589408	.9746358
49	.9396026	.9613689
50	.9138104	.9429584
51	.8806225	.9182884
52	.8393478	.8863615
53	.7897777	.8464552
54	.7328668	.7982652
55	.6678095	.7429435
56	.5979804	.6786663
57	.5249114	.6096304
58	.4510109	.5369611
59	.3787842	.4630389
60	.3105668	.3903696
61	.2483005	.3213337
62	.1933002	.2579565
63	.1465711	.2017348
64	.1080225	.1535448
65	.0773513	.1136375
66	.0537766	.0817116
67	.0362741	.0570416
68	.0237248	.0386311
69	.0150365	.0253640
70	.0092295	.0161360
71	.0054835	.0099396
72	.0031516	.0059249
73	.0017514	.0034150
74	.0009405	.0019035
75	.0004877	.0010347
76	.0002448	.0005385
77	.0001179	.0002670
78	.0000549	.0001291
79	.0000246	.0000602
80	.0000106	.0000270
81	.0000044	.0000117
82	.0000018	.0000048
83	.0000007	.0000019
84	.0000003	.0000007
85	.0000001	.0000003
86		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 11

p	.01	.02	.03	.04	.05	.06	.07	.08
1	.6914555	.9059301	.9716670	.9915716	.9975245	.9992823	.9997946	.9999420
2	.3868181	.6813141	.8491423	.9504844	.9822807	.9939222	.9979862	.9993523
3	.1131882	.4154421	.6352321	.8511898	.9357469	.9740787	.9900913	.9963779
4	.0301341	.2074470	.4671943	.6925948	.8418629	.9255253	.9673119	.9864634
5	.0066512	.0864703	.3150063	.5042620	.7010370	.8371995	.9184466	.9618926
6	.0012151	.0306729	.1406728	.3269159	.5335282	.7097847	.8353231	.9136055
7	.0001901	.0094167	.0631194	.1889800	.3689582	.5579715	.7185330	.8352866
8	.0000259	.0025370	.0250852	.0978437	.2316102	.4043124	.5791383	.7271513
9	.0000031	.0006076	.0089108	.0456303	.1322137	.2694521	.4348724	.5979309
10	.0000003	.0001305	.0028524	.0192818	.0688557	.1651984	.3033611	.4618437
11		.0000254	.0008287	.0074250	.0328417	.0933299	.1964552	.3340400
12		.0000045	.0002199	.0026194	.0144039	.0487074	.1181829	.2259373
13		.0000007	.0000536	.0008507	.0058319	.0235480	.0661416	.1429019
14		.0000001	.0001121	.0002554	.0021880	.0105771	.0345037	.0845827
15			.0000225	.0000712	.0007633	.0044267	.0168136	.0469107
16			.0000005	.0000185	.0002484	.0017310	.0076706	.0244167
17			.0000001	.0000045	.0000756	.0006341	.0033834	.0119472
18				.0000010	.0000216	.0002181	.0013215	.0055051
19				.0000002	.0000058	.0000706	.0005011	.0023930
20					.0000015	.0000216	.0001794	.0009830
21					.0000004	.0000062	.0000607	.0003822
22					.0000001	.0000017	.0000195	.0001408
23						.0000004	.0000059	.0000493
24						.0000001	.0000017	.0000164
25							.0000005	.0000052
26							.0000001	.0000016
27								.0000005
28								.0000001

p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999839	.9999956	.9999988	.9999997	.9999999	1.0000000	1.0000000	1.0000000
2	.9997971	.9999380	.9999815	.9999946	.9999984	.9999996	.9999999	1.0000000
3	.9987260	.9995669	.9998572	.9999543	.9999857	.9999957	.9999987	.9999996
4	.9946649	.9979862	.9993686	.9997435	.9999129	.9999713	.9999908	.9999971
5	.9832182	.9929808	.9971953	.9989245	.9996028	.9998584	.9999511	.9999837
6	.9576328	.9804117	.9914038	.9964004	.9985557	.9994428	.9997928	.9999256
7	.9103982	.9543424	.9790422	.9899753	.9956348	.9981801	.9992713	.9997191
8	.8363207	.9084108	.9518553	.9760823	.9887140	.9949205	.9978120	.9990953
9	.7355835	.8382376	.9073522	.9500328	.9744945	.9876244	.9942709	.9974618
10	.6149202	.7480069	.8407364	.9070116	.9467615	.9732395	.9867028	.9936933
11	.4860359	.6304901	.7518156	.8436532	.9072336	.9479488	.9722789	.9859410
12	.3620443	.5080163	.6449108	.7596117	.8568729	.9079008	.9475191	.9715775
13	.2537280	.3878106	.5281964	.6583799	.7672013	.8503123	.9089230	.9474103
14	.1671984	.2799337	.4116837	.5468833	.6710460	.7745923	.8539104	.9102300
15	.1036196	.1908984	.3047090	.4339386	.5643120	.6830238	.7817930	.8576211
16	.0604459	.1229572	.2139237	.3281814	.4547972	.5806659	.6944037	.7888120
17	.0338858	.0748368	.1423867	.2362447	.3504748	.4744398	.5960908	.7052281
18	.0178306	.0430705	.0890590	.1617613	.2578615	.3717013	.4933153	.6107041
19	.0088484	.0234418	.0537914	.1053344	.1809794	.2787854	.3919609	.5106470
20	.0039136	.0121095	.0305639	.0652416	.1211201	.1999717	.2990409	.4113422
21	.0017188	.0059287	.0164969	.0384524	.0772938	.1371041	.2186924	.3186577
22	.0007162	.0027566	.0084662	.0215786	.0470420	.0898315	.1531983	.2371122
23	.0002835	.0012186	.0041350	.0115380	.0273178	.0562510	.1027643	.1693341
24	.0001067	.0005128	.0019239	.0058828	.0151442	.0336716	.0660030	.1160097
25	.0000383	.0002056	.0008535	.0028623	.0080195	.0192750	.0405944	.0762880
26	.0000131	.0000786	.0003614	.0013301	.0040592	.0105568	.0239144	.0480399
27	.0000043	.0000287	.0001462	.0005908	.0019653	.0055348	.0134988	.0290413
28	.0000013	.0000100	.0000565	.0002511	.0009107	.0027794	.0073040	.0168446
29	.0000004	.0000033	.0000209	.0001021	.0004042	.0013376	.0037901	.0093773
30	.0000001	.0000011	.0000074	.0000398	.0001720	.0006173	.0018870	.0050121
31		.0000003	.0000025	.0000149	.0000702	.0002733	.0009019	.0025732
32		.0000001	.0000008	.0000053	.0000275	.0001162	.0004140	.0012694
33			.0000003	.0000018	.0000103	.0000474	.0001826	.0006020
34			.0000001	.0000006	.0000037	.0000186	.0000774	.0002746
35				.0000002	.0000013	.0000070	.0000316	.0001205
36				.0000001	.0000004	.0000026	.0000124	.0000509
37					.0000001	.0000009	.0000047	.0000207
38						.0000003	.0000017	.0000081
39						.0000001	.0000006	.0000031
40							.0000002	.0000011
41							.0000001	.0000004
42								.0000001

p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999947	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999741	.9999913	.9999972	.9999991	.9999997	.9999999	1.0000000	1.0000000
7	.9998955	.9999624	.9999869	.9999956	.9999986	.9999995	.9999999	1.0000000
8	.9996401	.9998620	.9999489	.9999817	.9999937	.9999979	.9999993	.9999998
9	.9989209	.9995589	.9998263	.9999340	.9999758	.9999914	.9999970	.9999990
10	.9971369	.9987530	.9994779	.9997895	.9999181	.9999693	.9999888	.9999961
11	.9931906	.9968425	.9985952	.9993793	.9997527	.9999019	.9999524	.9999861
12	.9853883	.9927630	.9965013	.9984504	.9993249	.9997169	.9998856	.9999554
13	.9711034	.9848528	.9924085	.9963550	.9983204	.9992562	.9996830	.9998698
14	.9475711	.9708282	.9845027	.9921239	.9961638	.9982065	.9991941	.9996515
15	.9117663	.9479588	.9707268	.9842661	.9919051	.9960073	.9981093	.9991394
16	.8614095	.9134874	.9485379	.9707768	.9841317	.9917479	.9959843	.9980289
17	.7956574	.8652484	.9153574	.9492783	.9709588	.9840892	.9916474	.9957933
18	.7156460	.8023370	.8691167	.9173468	.9501547	.9712553	.9841285	.9915990
19	.6246021	.7256158	.8088578	.8739974	.9194313	.9511453	.9716511	.9842405

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 117$$

r	.17	.18	.19	.20	.21	.22	.23	.24
20	.5274306	.6378641	.7352082	.8152665	.8768772	.9218908	.9522315	.9721327
21	.4299239	.5434775	.6505565	.7444571	.8214490	.8807451	.9238083	.9533974
22	.3376682	.4477753	.5588381	.6637354	.7533917	.8275309	.8845921	.9266693
23	.2552140	.3661050	.4649580	.5735844	.6744483	.7620366	.8334772	.8864114
24	.1854584	.2959893	.3740006	.4815262	.5877713	.6857360	.7704138	.8392924
25	.1294998	.2015301	.2904358	.3913860	.4975285	.6014467	.6966337	.7785299
26	.0868634	.1431775	.2175178	.3075556	.4082909	.5130078	.6146523	.7071718
27	.0559689	.0978530	.1559952	.2333979	.3243538	.4247433	.5280025	.6274244
28	.0346317	.0643802	.1091472	.1709132	.2491527	.3408376	.4407693	.5485470
29	.0205884	.0406603	.0730713	.1207023	.1848905	.2647698	.3570157	.4663933
30	.0117610	.0247213	.0471010	.0821784	.1324830	.1999240	.2802385	.3728977
31	.0064573	.0144581	.0292316	.0539275	.0916068	.1444469	.2139670	.2955544
32	.0034090	.0081354	.0174682	.0341063	.0611146	.1013248	.1565739	.2270090
33	.0017309	.0044054	.0100525	.0207890	.0393310	.0686378	.1113038	.1688357
34	.0008456	.0023965	.0055721	.0122134	.0244159	.0446908	.0764738	.1215176
35	.0003976	.0011527	.0029755	.0069168	.0146206	.0283431	.0507704	.0846008
36	.0001800	.0005573	.0015312	.0037766	.0084458	.0172749	.0325634	.0569548
37	.0000785	.0002596	.0007595	.0019804	.0047071	.0101641	.0201758	.0370690
38	.0000330	.0001166	.0003632	.0010098	.0025314	.0057735	.0120754	.0232316
39	.0000134	.0000505	.0001675	.0004947	.0013138	.0031664	.0069815	.0141020
40	.0000052	.0000211	.0000745	.0002339	.0006569	.0016769	.0038994	.0083356
41	.0000020	.0000085	.0000320	.0001067	.0003183	.0008576	.0021041	.0047355
42	.0000007	.0000033	.0000133	.0000470	.0001487	.0004337	.0010970	.0026004
43	.0000003	.0000012	.0000053	.0000200	.0000670	.0002032	.0005527	.0013803
44	.0000001	.0000004	.0000020	.0000082	.0000292	.0000932	.0002621	.0007083
45		.0000002	.0000008	.0000033	.0000123	.0000415	.0001266	.0003514
46		.0000001	.0000003	.0000012	.0000050	.0000179	.0000576	.0001685
47			.0000001	.0000005	.0000020	.0000074	.0000253	.0000782
48				.0000002	.0000007	.0000030	.0000108	.0000351
49				.0000001	.0000003	.0000012	.0000044	.0000152
50					.0000001	.0000004	.0000018	.0000064
51						.0000002	.0000007	.0000026
52						.0000001	.0000003	.0000010
53							.0000001	.0000004
54								.0000001
55								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999950	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
12	.9999832	.9999939	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000
13	.9999485	.9999803	.9999927	.9999974	.9999991	.9999997	.9999999	1.0000000
14	.9998548	.9999417	.9999774	.9999916	.9999970	.9999989	.9999996	.9999999
15	.9996231	.9998410	.9999354	.9999746	.9999904	.9999965	.9999988	.9999996
16	.9990985	.9995980	.9998285	.9999295	.9999721	.9999893	.9999961	.9999986
17	.9979652	.9990537	.9995766	.9998176	.9999243	.9999697	.9999883	.9999956
18	.9957385	.9979176	.9990230	.9995590	.9998083	.9999197	.9999676	.9999874
19	.9915980	.9956999	.9978055	.9990002	.9995452	.9998008	.9999160	.9999658
20	.9844170	.9916399	.9956933	.9978681	.9989852	.9995352	.9997951	.9999130
21	.9736881	.9846502	.9917804	.9957107	.9978643	.9989774	.9995239	.9997211
22	.9546292	.9733065	.9849330	.9918354	.9957497	.9978733	.9989766	.9995262
23	.9283618	.9559147	.9739786	.9852591	.9919808	.9958084	.9978939	.9989823
24	.8921964	.9306751	.9572434	.9746957	.9856224	.9921531	.9958845	.9979850
25	.8449806	.8959423	.9330004	.9586061	.9754503	.9860175	.9923488	.9959762
26	.7864330	.8505455	.8996447	.9353298	.9599945	.9762356	.9864396	.9925647
27	.7173768	.7941063	.8559906	.9033001	.9376565	.9614015	.9770454	.9868841
28	.6397751	.7272719	.8015724	.8613187	.9069053	.9399744	.9628205	.9778743
29	.5566719	.6517929	.7360776	.8088420	.8665327	.9104576	.9422784	.9642459
30	.4716379	.5704049	.6634427	.7462118	.8159248	.8716349	.9139546	.9445637
31	.3884934	.4865241	.5837709	.6747669	.7552904	.8228292	.8766875	.9173944
32	.3107138	.4030133	.5010713	.5967921	.6857853	.7641275	.8295629	.8815134
33	.2410350	.3257130	.4188674	.5152976	.6094888	.6965157	.7727357	.8361323
34	.1812103	.2550326	.3405536	.4336655	.5293106	.6219793	.7069739	.7811961
35	.1319429	.1936789	.2689920	.3552355	.4482188	.5428525	.6339800	.7171748
36	.0929982	.1425587	.2062251	.2829052	.3697605	.4625355	.5562106	.6458060
37	.0634291	.1016472	.1533462	.2180349	.2967660	.3841308	.4766252	.5693068
38	.0418517	.0701791	.1105301	.1642885	.2314561	.3105696	.3985492	.4904968
39	.0267096	.0469026	.0771909	.1196306	.1753708	.2441986	.3243123	.4124188
40	.0164854	.0303764	.0522129	.0844515	.1289341	.1865799	.2569336	.3379915
41	.0098398	.0189863	.0341979	.0577739	.0919483	.1384270	.1979039	.2696935
42	.0056794	.0114969	.0216844	.0382899	.0635769	.0996699	.1480970	.2093326
43	.0031700	.0067353	.0133094	.0245789	.0426075	.0696133	.1076052	.1579328
44	.0017111	.0038173	.0079065	.0152788	.0276586	.0471458	.0758751	.1157448
45	.0008932	.0020930	.0045458	.0091962	.0174065	.0309516	.0518998	.0823543
46	.0004509	.0011102	.0025803	.0053569	.0106068	.0196929	.0344260	.0568645
47	.0002202	.0005697	.0013619	.0030231	.0062597	.0121404	.0221382	.0380894
48	.0001040	.0002829	.0007097	.0016510	.0035774	.0072508	.0137986	.0247424
49	.0000475	.0001359	.0003579	.0008728	.0019797	.0041948	.0083345	.0155827
50	.0000210	.0000631	.0001746	.0004466	.0010608	.0023565	.0049777	.0095189
51	.0000090	.0000284	.0000825	.0002212	.0005503	.0012756	.0027655	.0056282
52	.0000037	.0000124	.0000377	.0001060	.0002764	.0006703	.0015188	.0033266
53	.0000015	.0000052	.0000167	.0000492	.0001344	.0003411	.0008079	.0019291
54	.0000006	.0000021	.0000071	.0000221	.0000633	.0001681	.0004162	.0009643
55	.0000002	.0000008	.0000030	.0000096	.0000288	.0000802	.0002076	.0005025

$$P(\geq m, p) = \sum_{r=m}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 117

p	.25	.26	.27	.28	.29	.30	.31	.32
56	.0000001	.0000003	.0000012	.0000040	.0001127	.0000370	.0001003	.0002537
57		.0000001	.0000005	.0000016	.0000054	.0000166	.0000469	.0001240
58			.0000002	.0000006	.0000022	.0000072	.0000212	.0000587
59			.0000001	.0000002	.0000009	.0000030	.0000093	.0000269
60				.0000001	.0000003	.0000012	.0000039	.0000119
61					.0000001	.0000005	.0000016	.0000051
62						.0000002	.0000006	.0000021
63						.0000001	.0000002	.0000009
64							.0000001	.0000003
65								.0000001

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999984	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999953	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
19	.9999876	.9999949	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000
20	.9999644	.9999860	.9999947	.9999981	.9999993	.9999998	.9999999	1.0000000
21	.9999108	.9999633	.9999855	.9999945	.9999980	.9999993	.9999998	.9999999
22	.9997889	.9999095	.9999626	.9999851	.9999943	.9999979	.9999993	.9999997
23	.9995269	.9997884	.9999089	.9999622	.9999849	.9999942	.9999979	.9999992
24	.9989939	.9995307	.9997894	.9999091	.9999622	.9999849	.9999942	.9999978
25	.9979656	.9990108	.9995374	.9997919	.9999099	.9999625	.9999850	.9999942
26	.9960815	.9980145	.9990326	.9995467	.9997957	.9999115	.9999631	.9999852
27	.9927978	.9961984	.9980708	.9990587	.9995583	.9998007	.9999136	.9999639
28	.9873460	.9930452	.9963254	.9981335	.9990885	.9995720	.9998068	.9999168
29	.9787171	.9878241	.9933045	.9964607	.9982015	.9991815	.9995875	.9998138
30	.9656726	.9795694	.9883123	.9935730	.9966029	.9983740	.9991571	.9996044
31	.9468262	.9670958	.9804272	.9888083	.9938487	.9967503	.9983500	.9991949
32	.9207751	.9490621	.9685115	.9812666	.9893093	.9941295	.9969018	.9984287
33	.8862914	.9240950	.9512682	.9699159	.9821444	.9898125	.9944134	.9970560
34	.8425435	.8909659	.9273526	.9534414	.9713057	.9829774	.9903156	.9946988
35	.7893085	.8488017	.8955372	.9305465	.9555790	.9726777	.9838429	.9908163
36	.7271292	.7979220	.8549115	.9000065	.9336757	.9576785	.9740292	.9846783
37	.6573708	.7388504	.8059042	.8608771	.9043747	.9367387	.9597377	.9753577
38	.5821533	.6666866	.7463481	.8126923	.8667020	.9086425	.9397347	.9617545
39	.5041587	.5947610	.6797647	.7556314	.8201225	.8743894	.9138108	.9426624
40	.4263431	.5176187	.6071401	.6906150	.7647087	.8273803	.8779428	.9168799
41	.3516054	.4401257	.5308843	.6193000	.7012467	.7735872	.8344707	.8833627
42	.2824723	.3651528	.4537701	.5439627	.6312493	.7116681	.7842737	.8413980
43	.2208569	.2952647	.3786332	.4672803	.5568605	.6429958	.7218865	.7907739
44	.1679245	.2324688	.3080664	.3920465	.4806594	.5695839	.6545456	.7319087
45	.1240776	.1780630	.2441614	.3208738	.4053930	.4939116	.5821387	.6659083
46	.0890436	.1325966	.1883402	.2559286	.3336841	.4186738	.5070402	.5945301
47	.0620350	.0959360	.1412935	.1987487	.2677653	.3464950	.4318881	.5200485
48	.0419393	.0674064	.1030348	.1501610	.2092688	.2796671	.3593049	.4450387
49	.0275050	.0459732	.0729740	.1103038	.1591925	.2199351	.2916300	.3721125
50	.0174937	.0304251	.0501882	.0787333	.1177675	.1683883	.2307023	.3036511
51	.0107876	.0195321	.0335021	.0545819	.0846801	.1254106	.1777850	.2415795
52	.0064403	.0121600	.0216984	.0367347	.0591514	.0908103	.1332883	.1872161
53	.0037357	.0073398	.0136114	.0239928	.0401218	.0638942	.0971202	.1412164
54	.0020971	.0042945	.0083042	.0152027	.0264152	.0436821	.0688079	.1036065
55	.0011406	.0024352	.0049044	.0093426	.0168746	.0289654	.0473544	.0738900
56	.0006010	.0013380	.0028075	.0055665	.0104563	.0186476	.0316432	.0511974
57	.0003067	.0007122	.0015575	.0032155	.0062830	.0116462	.0205281	.0344488
58	.0001516	.0003672	.0008371	.0018300	.0036600	.0070539	.0129129	.0224984
59	.0000725	.0001834	.0004359	.0009763	.0020664	.0041422	.0078803	.0142572
60	.0000336	.0000887	.0002198	.0005130	.0011305	.0023576	.0046627	.0087630
61	.0000151	.0000415	.0001073	.0002611	.0005992	.0013003	.0026741	.0052824
62	.0000065	.0000188	.0000507	.0001287	.0003076	.0006947	.0014861	.0030167
63	.0000027	.0000083	.0000232	.0000614	.0001529	.0003595	.0008001	.0016885
64	.0000011	.0000035	.0000103	.0000284	.0000736	.0001801	.0004171	.0009155
65	.0000004	.0000014	.0000044	.0000127	.0000343	.0000874	.0002106	.0004807
66	.0000002	.0000006	.0000018	.0000055	.0000154	.0000410	.0001029	.0002444
67	.0000001	.0000002	.0000007	.0000023	.0000067	.0000186	.0000487	.0001202
68		.0000001	.0000003	.0000009	.0000028	.0000082	.0000223	.0000579
69			.0000001	.0000004	.0000012	.0000035	.0000098	.0000264
70				.0000001	.0000005	.0000014	.0000042	.0000117
71				.0000001	.0000002	.0000006	.0000017	.0000050
72					.0000001	.0000002	.0000007	.0000021
73						.0000001	.0000003	.0000008
74							.0000001	.0000003
75								.0000001

p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 117$$

x	.41	.42	.43	.44	.45	.46	.47	.48
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	.99999992	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	.99999979	.99999992	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
26	.99999943	.99999979	.99999992	.99999997	.99999999	1.00000000	1.00000000	1.00000000
27	.99999855	.99999944	.99999979	.99999993	.99999998	.99999999	1.00000000	1.00000000
28	.99999650	.99999860	.99999946	.99999980	.99999993	.99999998	.99999999	1.00000000
29	.99999193	.99999664	.99999865	.99999948	.99999981	.99999993	.99999998	.99999999
30	.99998216	.99999227	.99999679	.99999878	.99999951	.99999982	.99999994	.99999998
31	.99996226	.99998300	.99998865	.99999695	.99999870	.99999954	.99999983	.99999994
32	.99988344	.99996417	.99998390	.99999305	.99999712	.99999886	.99999957	.99999984
33	.99985094	.99992751	.99996615	.99998483	.99999347	.99999731	.99999894	.99999960
34	.99978118	.99985914	.99993166	.99996817	.99998578	.99999391	.99999780	.99999901
35	.99949840	.99973681	.99986738	.99993585	.99997082	.99998674	.99999434	.99999769
36	.99913186	.99952675	.99975839	.99987568	.99994005	.99997228	.99998771	.99999478
37	.99855014	.99918027	.99955480	.99976784	.99988380	.99994481	.99997438	.99998867
38	.99766608	.99863101	.99928849	.99958244	.99978306	.99989187	.99994838	.99997633
39	.99637878	.99779365	.99871084	.99927576	.99960954	.99979800	.99989277	.99995834
40	.99455211	.99656538	.99791089	.99878766	.99932196	.99963602	.99981957	.99990748
41	.99208504	.99483098	.99675389	.99803988	.99886313	.99936696	.99966178	.99982673
42	.98886530	.99247825	.99510276	.99693631	.99815810	.99893680	.99941064	.99966675
43	.98481660	.98938150	.99284964	.99536736	.99711489	.99827890	.99900765	.99945893
44	.97990931	.98547779	.98988502	.99321723	.99542471	.99728713	.99838434	.99907648
45	.97417406	.98072359	.98618368	.99037598	.99357500	.99587474	.99748471	.99849806
46	.96770868	.97513877	.98158063	.98675481	.99084448	.99398897	.99611737	.99761693
47	.96067635	.96880874	.97608545	.98230078	.98737049	.99138061	.99486111	.99638883
48	.95329400	.96188436	.96989149	.97701452	.98306435	.98797178	.99177442	.99458940
49	.94581262	.95457177	.96307723	.97095735	.97798635	.98381189	.98858854	.99181597
50	.93849168	.94711519	.95583845	.96425560	.97200669	.97881283	.98454871	.98913087
51	.93157878	.93977174	.94841171	.95709431	.96541978	.97303985	.97969947	.98585788
52	.92535632	.93278579	.94105140	.94970833	.95833961	.96656988	.97405709	.98056183
53	.91968515	.92636501	.93400398	.94233066	.95098719	.95957456	.96770654	.97508868
54	.91493710	.92066876	.92748377	.93527823	.94360954	.95206641	.96079741	.96869931
55	.91108658	.91576687	.92165414	.92861240	.93645546	.94488808	.95384018	.96201431
56	.90791384	.91170955	.91661667	.92259905	.92975072	.93760861	.94616633	.95600851
57	.90551899	.90845810	.91240931	.91748024	.92367788	.93089863	.93928666	.95074435
58	.90373798	.90593304	.90901260	.91312563	.91838930	.92470868	.93205605	.94016963
59	.90245765	.90404375	.90636181	.90958617	.91388834	.91885394	.92572318	.93388894
60	.90156793	.90267865	.90436209	.90680516	.91017567	.91460736	.92016379	.92861068
61	.90097086	.90171797	.90290381	.90469298	.90786302	.91078100	.91537840	.92408885
62	.90058817	.90106996	.90187585	.90314213	.90503620	.90773589	.91140805	.92015386
63	.90033857	.90064618	.90117541	.90204157	.90339058	.90539188	.90888191	.91803878
64	.90019079	.90037817	.90071411	.90128665	.90221813	.90364913	.90575990	.91678883
65	.90010414	.90021446	.90042049	.90078618	.90140368	.90239683	.90391774	.91614028
66	.90005308	.90011780	.90023988	.90046555	.90086833	.90158648	.90258578	.91619639
67	.90002816	.90006865	.90013253	.90026706	.90051336	.90094855	.90165506	.91678849
68	.90001395	.90003885	.90007088	.90014835	.90029608	.90056392	.90102884	.91789537
69	.90000668	.90001606	.90003669	.90007977	.90016587	.90032675	.90061781	.91951517
70	.90000309	.90000774	.90001837	.90004150	.90008930	.90018388	.90035984	.92167388
71	.90000139	.90000360	.90000890	.90002088	.90004668	.90009948	.90020838	.92439348
72	.90000060	.90000168	.90000416	.90001016	.90002359	.90005282	.90011089	.92768854
73	.90000025	.90000071	.90000188	.90000478	.90001153	.90002650	.90005818	.93158173
74	.90000010	.90000030	.90000083	.90000217	.90000544	.90001300	.90002960	.93609437
75	.90000004	.90000012	.90000035	.90000095	.90000248	.90000616	.90001486	.94124889
76	.90000001	.90000005	.90000014	.90000040	.90000109	.90000281	.90000698	.94706683
77	.90000001	.90000002	.90000006	.90000016	.90000046	.90000124	.90000317	.95357773
78		.90000001	.90000003	.90000006	.90000019	.90000053	.90000140	.96080355
79			.90000001	.90000002	.90000007	.90000022	.90000060	.96877157
80				.90000001	.90000003	.90000009	.90000025	.97751067
81					.90000001	.90000003	.90000010	.98702088
82						.90000001	.90000004	.99731911
83							.90000001	.99839511
84								.99924888
85								.99984241

x	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 117

x	.49	.50
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	.9999999	1.0000000
31	.9999998	.9999999
32	.9999994	.9999998
33	.9999985	.9999995
34	.9999963	.9999987
35	.9999910	.9999966
36	.9999788	.9999917
37	.9999522	.9999807
38	.9998963	.9999564
39	.9997889	.9999053
40	.9995684	.9998019
41	.9991494	.9996008
42	.9984042	.9992214
43	.9971085	.9985359
44	.9949373	.9973404
45	.9914388	.9953896
46	.9859608	.9920678
47	.9777371	.9869622
48	.9658016	.9792496
49	.9490783	.9680080
50	.9264587	.9521636
51	.8968885	.9306834
52	.8595784	.9023858
53	.8140671	.8664088
54	.7604472	.8223402
55	.6993898	.7701547
56	.6321940	.7103549
57	.5607168	.6441484
58	.4878881	.5738958
59	.4141753	.5000000
60	.3439930	.4267042
61	.2788107	.3558516
62	.2208911	.2896451
63	.1695076	.2296457
64	.1269113	.1776398
65	.0923802	.1338918
66	.0653288	.0976745
67	.0448503	.0693766
68	.0298740	.0478364
69	.0192938	.0319280
70	.0120750	.0207504
71	.0073190	.0130378
72	.0042942	.0079388
73	.0024575	.0046704
74	.0013578	.0026896
75	.0007096	.0014641
76	.0003635	.0007786
77	.0001798	.0003998
78	.0000858	.0001981
79	.0000395	.0000947
80	.0000175	.0000436
81	.0000075	.0000193
82	.0000031	.0000083
83	.0000012	.0000034
84	.0000005	.0000013
85	.0000002	.0000005
86	.0000001	.0000002
87		.0000001

$$F(c,n,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 110

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.6945410	.9070115	.9725170	.9919089	.9976483	.9993853	.9998090	.9999467
2	.3304505	.6858064	.8732181	.9521279	.9830499	.9942438	.9981128	.9993995
3	.1153189	.4207596	.6907494	.8551616	.9380736	.9752693	.9906439	.9966159
4	.0312912	.2116069	.4737354	.6989381	.8465571	.9264385	.9689068	.9878565
5	.0068893	.0888898	.2807719	.5117953	.7080782	.8424990	.9218678	.9638588
6	.0012694	.0317886	.1447028	.3340097	.5419036	.7174296	.8411417	.9174685
7	.0003004	.0098418	.0654460	.1944974	.3771867	.5670803	.7267083	.8414969
8	.0000276	.0026755	.0268262	.1014892	.2384776	.4135320	.5888959	.7357974
9	.0000034	.0006462	.0093960	.0477188	.1371636	.2775437	.4449710	.6082685
10	.0000004	.0001401	.0030341	.0203358	.0720236	.1714536	.3125669	.4727307
11		.0000275	.0008894	.0078993	.0346484	.0976480	.2039386	.3442643
12		.0000049	.0002388	.0028116	.0153258	.0513648	.1236620	.2345855
13		.0000008	.0000586	.0009214	.0063605	.0250575	.0697845	.1495447
14		.0000001	.0000133	.0002793	.0023708	.0113553	.0367183	.0892483
15			.0000028	.0000786	.0008545	.0047957	.0180519	.0499843
16			.0000005	.0000206	.0002741	.0018988	.0083106	.0262168
17			.0000001	.0000050	.0000843	.0006999	.0035905	.0129447
18				.0000012	.0000243	.0002431	.0014589	.0060805
19				.0000003	.0000066	.0000795	.0005586	.0026420
20				.0000001	.0000017	.0000255	.0002019	.0010958
21					.0000004	.0000071	.0000690	.0004008
22					.0000001	.0000020	.0000224	.0001602
23						.0000005	.0000069	.0000566
24						.0000001	.0000020	.0000190
25							.0000006	.0000061
26							.0000001	.0000019
27								.0000005
28								.0000002

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999853	.9999960	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000
2	.9998139	.9999437	.9999834	.9999952	.9999986	.9999996	1.0000000	1.0000000
3	.9988224	.9996040	.9998709	.9999591	.9999874	.9999968	.9999989	.9999997
4	.9950304	.9981443	.9993334	.9997688	.9999224	.9999747	.9999920	.9999975
5	.9844484	.9934814	.9974233	.9990228	.9996431	.9998748	.5999571	.9999858
6	.9599354	.9816686	.9920409	.9967033	.9986918	.9995010	.9998166	.9999349
7	.9146493	.9569493	.9795130	.9907464	.9960145	.9983569	.9993495	.9997581
8	.8429877	.9130040	.9547358	.9777495	.9896137	.9953765	.9980309	.9991951
9	.7446498	.8452549	.9122475	.9531587	.9763431	.9886459	.9948021	.9977831
10	.6257799	.7532499	.8480641	.9121742	.9521068	.9752534	.9878380	.9942962
11	.4976355	.6418217	.7615969	.8512562	.9126122	.9514885	.9744425	.9871814
12	.3732036	.5202637	.6566703	.7696967	.8547198	.9135075	.9512351	.9738756
13	.2634710	.3998312	.5410349	.6705277	.7775586	.8583747	.9147124	.9512770
14	.1749800	.2907814	.4245001	.5608638	.6835462	.7851931	.8621628	.9161788
15	.1093411	.1997965	.3164762	.4474920	.5781874	.6958434	.7926106	.8660385
16	.0643316	.1297507	.2239074	.3406723	.4690341	.5949960	.7075121	.7998215
17	.0356751	.0796485	.1502554	.2472771	.3640367	.4893115	.6108377	.7186867
18	.0186701	.0463471	.0956371	.1706993	.2699012	.3860847	.5084766	.6256328
19	.0093333	.0254227	.0577588	.1121056	.1909740	.2917936	.4071190	.5266568
20	.0043211	.0132447	.0331169	.0700528	.1289018	.2110056	.3189789	.4278310
21	.0019163	.0065468	.0180443	.0416671	.0829898	.1459056	.2307447	.3334873
22	.0008064	.0030738	.0093495	.0236035	.0509746	.0964497	.1630884	.2501595
23	.0003284	.0013784	.0046114	.0127429	.0298819	.0609823	.1103894	.1801786
24	.0001287	.0005834	.0021671	.0065614	.0167867	.0368387	.0715178	.1245416
25	.0000444	.0002363	.0009713	.0032248	.0089457	.0212906	.0444057	.0839531
26	.0000154	.0000913	.0004156	.0015140	.0045741	.0117773	.0264164	.0585300
27	.0000051	.0000337	.0001699	.0006796	.0022375	.0062378	.0150612	.0390810
28	.0000016	.0000119	.0000664	.0002918	.0010478	.0031651	.0082332	.0187961
29	.0000005	.0000040	.0000248	.0001200	.0004701	.0015395	.0043178	.0105721
30	.0000001	.0000013	.0000089	.0000473	.0002022	.0007181	.0021725	.0057106
31		.0000004	.0000031	.0000179	.0000834	.0003215	.0010497	.0029634
32		.0000001	.0000010	.0000065	.0000330	.0001382	.0004872	.0014780
33			.0000003	.0000023	.0000126	.0000571	.0002173	.0007088
34			.0000001	.0000008	.0000046	.0000227	.0000932	.0003270
35				.0000002	.0000016	.0000087	.0000385	.0001452
36				.0000001	.0000005	.0000032	.0000153	.0000620
37					.0000002	.0000011	.0000058	.0000255
38					.0000001	.0000004	.0000022	.0000101
39						.0000001	.0000008	.0000039
40							.0000003	.0000014
41							.0000001	.0000005
42								.0000002
43								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999954	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999776	.9999936	.9999976	.9999998	.9999998	.9999999	1.0000000	1.0000000
7	.9999089	.9999676	.9999889	.9999963	.9999988	.9999996	.9999999	1.0000000
8	.9996835	.9998801	.9999561	.9999845	.9999947	.9999982	.9999994	.9999998
9	.9990433	.9996134	.9998496	.9999435	.9999795	.9999928	.9999976	.9999992
10	.9974402	.9988960	.9995441	.9998184	.9999302	.9999741	.9999907	.9999968
11	.9938615	.9971864	.9987629	.9994773	.9997874	.9999167	.9999685	.9999895
12	.9866649	.9934973	.9969640	.9986408	.9994148	.9997576	.9999033	.9999688
13	.9735216	.9868767	.9938013	.9967741	.9988314	.9993575	.9997296	.9998904
14	.9515716	.9733526	.9880048	.9939701	.9966167	.9984375	.9993065	.9997039
15	.9178531	.9520753	.9733442	.9858376	.9927995	.9964911	.9983388	.9992683
16	.8699701	.9196922	.9527538	.9734747	.9857642	.9926850	.9963961	.9982954
17	.8068353	.8739314	.9216617	.9535760	.9737251	.9857741	.9936219	.9963899

$$\text{Binomial} = \sum_{x=0}^{n} \binom{n}{x} p^x q^{n-x}$$

n = 110

x	.17	.18	.19	.20	.21	.22	.23	.24
18	.7292479	.6136611	.8779084	.9237331	.9545235	.9740787	.856	.986
19	.6400795	.7194856	.8203070	.8818673	.9258833	.9555695	.9745809	.9866066
20	.5439564	.6536594	.7428016	.8967807	.8858136	.9380928	.9566980	.9750386
21	.4465014	.5604670	.6666403	.7586110	.8330809	.8897318	.9303456	.9578939
22	.3533517	.4650017	.5762646	.6793797	.7676037	.8392300	.8936119	.9308201
23	.2692312	.3736057	.4887952	.5911446	.6910264	.7764453	.8458337	.8974493
24	.1973166	.2879501	.4091825	.4999379	.6059716	.7025821	.7849179	.8510810
25	.1390128	.2143937	.3063131	.4094141	.5164795	.6199904	.7136030	.7931805
26	.0941116	.1536810	.2313723	.3243817	.4270108	.5324644	.6335080	.7243001
27	.0618160	.1060114	.1684945	.2468224	.3419006	.4441615	.5479320	.6465637
28	.0388580	.0703561	.1182383	.1834101	.2649449	.3592969	.4606330	.5689176
29	.0239758	.0449191	.0799257	.1307445	.1983919	.2815043	.3762791	.4870708
30	.0132617	.0275903	.0530353	.0896831	.1434879	.2134099	.2976978	.3993566
31	.0073591	.0163954	.0336268	.0595777	.1001902	.1544319	.2284394	.3141147
32	.0039072	.0092735	.0197033	.0380706	.0675180	.1108117	.1698443	.2434599
33	.0020162	.0050768	.0114615	.0234525	.0439056	.0778289	.1217169	.1847773
34	.0009961	.0026761	.0064234	.0139385	.0275681	.0501151	.0844047	.1380740
35	.0004738	.0013586	.0034689	.0079761	.0166776	.0319836	.0566888	.0994608
36	.0002170	.0006645	.0018056	.0044046	.0097425	.0197099	.0367510	.0695898
37	.0000958	.0003138	.0009061	.0023461	.0054922	.0117235	.0230249	.0478416
38	.0000407	.0001483	.0004385	.0012055	.0029083	.0067398	.0139385	.0266810
39	.0000167	.0000684	.0002047	.0005977	.0015695	.0037400	.0081331	.0163755
40	.0000066	.0000304	.0000908	.0002860	.0007958	.0020046	.0046083	.0097388
41	.0000025	.0000107	.0000401	.0001321	.0003897	.0010379	.0025170	.0055995
42	.0000009	.0000042	.0000168	.0000589	.0001843	.0005191	.0013287	.0031128
43	.0000003	.0000016	.0000068	.0000254	.0000842	.0002505	.0006779	.0016731
44	.0000001	.0000006	.0000027	.0000106	.0000378	.0001178	.0003343	.0008696
45		.0000002	.0000010	.0000042	.0000166	.0000529	.0001594	.0004370
46		.0000001	.0000004	.0000016	.0000065	.0000231	.0000735	.0002184
47			.0000001	.0000006	.0000026	.0000097	.0000328	.0000999
48				.0000002	.0000010	.0000040	.0000141	.0000434
49				.0000001	.0000004	.0000016	.0000059	.0000800
50					.0000001	.0000006	.0000024	.0000085
51						.0000002	.0000009	.0000035
52						.0000001	.0000003	.0000014
53							.0000001	.0000005
54								.0000002
55								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999959	.9999986	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999863	.9999950	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000
13	.9999571	.9999838	.9999941	.9999979	.9999993	.9999998	.9999999	1.0000000
14	.9998783	.9999517	.9999816	.9999932	.9999974	.9999991	.9999997	.9999999
15	.9995810	.9998672	.9999467	.9999794	.9999923	.9999972	.9999990	.9999997
16	.9988258	.9996612	.9998574	.9999421	.9999774	.9999915	.9999969	.9999989
17	.9983470	.9991958	.9996446	.9998489	.9999361	.9999756	.9999907	.9999966
18	.9963907	.9983130	.9991725	.9996314	.9998419	.9999347	.9999760	.9999900
19	.9926316	.9963765	.9981926	.9991567	.9996215	.9998365	.9999320	.9999737
20	.9868183	.9926955	.9962858	.9981851	.9991476	.9996149	.9998526	.9999399
21	.9756203	.9864675	.9927931	.9963147	.9981894	.9991448	.9996114	.9998301
22	.9591439	.9762559	.9867656	.9929204	.9961650	.9980045	.9991478	.9996110
23	.9349806	.9604366	.9769361	.9871004	.9920738	.9954879	.9980995	.9991563
24	.9013378	.9373374	.9617819	.9776534	.9837469	.9892497	.9959074	.9986633
25	.8567846	.9049728	.9395460	.9631113	.9684000	.9778582	.9914440	.9965998
26	.8010699	.8623487	.9086508	.9418472	.9444767	.9591702	.9883915	.9936864
27	.7346408	.8087805	.8677772	.9133684	.9141345	.9320517	.9799576	.9887019
28	.6591905	.7446488	.8168653	.8730735	.8759231	.8946025	.9678303	.9807574
29	.5774587	.6721174	.7543452	.8223535	.8282407	.8491136	.9488464	.9686070
30	.4928964	.5915658	.6833701	.7637482	.7736011	.7932017	.9237350	.9508620
31	.4092795	.5083131	.6052023	.6994714	.7128744	.7314709	.8901989	.9260866
32	.3301582	.4253181	.5234032	.6318650	.6479418	.6667380	.8441529	.8929047
33	.2584345	.3460191	.4410625	.5638116	.5816148	.6017991	.7903521	.8506539
34	.1961665	.2734095	.3616983	.4965228	.5164971	.5442708	.7273681	.7987281
35	.1448598	.2096309	.2883136	.4317960	.4717090	.5665605	.6566081	.7376308
36	.1027344	.1558500	.2231723	.3031577	.3925114	.4866306	.5803191	.6686438
37	.0708214	.1128842	.1676235	.2367746	.3179344	.4076522	.5012967	.5937865
38	.0473460	.0795608	.1220904	.1795615	.2504244	.3325380	.4226148	.5157160
39	.0304951	.0529545	.0861925	.1331348	.1916472	.2651099	.3478637	.4374038
40	.0190415	.0346436	.0589570	.0943016	.1424008	.2058655	.2778216	.3618083
41	.0115012	.0219373	.0390630	.0652436	.1026743	.1538729	.2162031	.2915469
42	.0067195	.0134441	.0250630	.0437154	.0718046	.1112970	.1635371	.2286461
43	.0037974	.0079733	.0155706	.0284180	.0486686	.0786303	.1201557	.1743868
44	.0020758	.0045760	.0093653	.0178829	.0320009	.0538860	.0857114	.1292446
45	.0010977	.0025413	.0054532	.0108991	.0203825	.0368099	.0593321	.0930391
46	.0005615	.0013657	.0030737	.0064333	.0125787	.0230705	.0398429	.0650213
47	.0002779	.0007102	.0016771	.0036778	.0075204	.0144061	.0259474	.0440975
48	.0001330	.0003574	.0008858	.0020352	.0043553	.0087177	.0163839	.0290135
49	.0000616	.0001741	.0004529	.0010907	.0024431	.0051116	.0100284	.0185138
50	.0000276	.0000821	.0002241	.0005659	.0013273	.0029030	.0059493	.0114558
51	.0000120	.0000374	.0001074	.0002841	.0006903	.0015980	.0034208	.0068713
52	.0000050	.0000165	.0000498	.0001383	.0003508	.0008519	.0019053	.0039951
53	.0000020	.0000071	.0000223	.0000651	.0001756	.0004399	.0010383	.0022512
54	.0000008	.0000029	.0000097	.0000297	.0000859	.0002200	.0005376	.0012294
55	.0000003	.0000012	.0000041	.0000131	.0000420	.0001065	.0002723	.0006503

$$F(c,n,p) = \sum_{x=0}^{c} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 119

x	.25	.26	.27	.28	.29	.30	.31	.32
56	.0000001	.0000005	.0000017	.0000056	.0000174	.0000500	.0001336	.0003333
57		.0000002	.0000007	.0000023	.0000075	.0000227	.0000635	.0001668
58		.0000001	.0000002	.0000009	.0000038	.0000100	.0000298	.0000796
59			.0000001	.0000004	.0000013	.0000042	.0000130	.0000371
60				.0000001	.0000005	.0000018	.0000054	.0000167
61					.0000002	.0000007	.0000023	.0000073
62					.0000001	.0000003	.0000009	.0000031
63						.0000001	.0000004	.0000013
64							.0000001	.0000005
65								.0000000
66								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999963	.9999987	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999895	.9999961	.9999986	.9999995	.9999998	.9999999	1.0000000	1.0000000
20	.9999717	.9999890	.9999959	.9999985	.9999995	.9999998	.9999999	1.0000000
21	.9999285	.9999710	.9999887	.9999958	.9999985	.9999995	.9999998	.9999999
22	.9998293	.9999278	.9999706	.9999885	.9999957	.9999984	.9999995	.9999998
23	.9996134	.9998295	.9999277	.9999705	.9999884	.9999956	.9999984	.9999995
24	.9991698	.9996103	.9998318	.9999277	.9999706	.9999884	.9999956	.9999984
25	.9983049	.9991876	.9996356	.9998341	.9999293	.9999710	.9999886	.9999957
26	.9967033	.9983533	.9992093	.9996350	.9998380	.9999308	.9999716	.9999886
27	.9938814	.9968159	.9984075	.9992344	.9996462	.9998480	.9999389	.9999784
28	.9891457	.9941173	.9969363	.9984646	.9992683	.9996689	.9998484	.9999353
29	.9815649	.9895993	.9943618	.9970629	.9985297	.9992927	.9996730	.9998548
30	.9699773	.9823760	.9900595	.9946126	.9971944	.9985960	.9993880	.9996802
31	.9530455	.9713369	.9831870	.9905836	.9948678	.9973023	.9988648	.9993587
32	.9293719	.9553536	.9726820	.9839944	.9912854	.9951254	.9977466	.9986538
33	.8974710	.9335838	.9573033	.9740094	.9847954	.9914530	.9953839	.9976051
34	.8569803	.9022898	.9357830	.9593722	.9763160	.9855872	.9916138	.9956417
35	.8068761	.8631375	.9066726	.9387687	.9613979	.9765993	.9863473	.9923493
36	.7476484	.8148053	.8691305	.9110009	.9417709	.9633788	.9778566	.9871335
37	.6803911	.7574005	.8228838	.8749637	.9182160	.9446958	.9653114	.9790859
38	.6069750	.6918623	.7666057	.8300388	.8806409	.9193191	.9475358	.9671958
39	.5289969	.6198957	.7030689	.7761734	.8373569	.8861656	.9233111	.9502993
40	.4542023	.5438470	.6335587	.7140209	.7852118	.8444838	.8918409	.9271929
41	.3766869	.4664733	.5575738	.6449734	.7247276	.7940886	.8514846	.8967696
42	.3053869	.3906436	.4807601	.5710642	.6571483	.7351974	.8026305	.8581839
43	.2411900	.3190867	.4049311	.4948859	.5843844	.6690912	.7454375	.8110235
44	.1853988	.2534194	.3327648	.4191306	.5088538	.5974804	.6808098	.7555548
45	.1385471	.1965610	.2665281	.3464960	.4332416	.5226671	.6103778	.6923085
46	.1006048	.1480352	.2078776	.2793089	.3602164	.4473638	.5363286	.6230814
47	.0709479	.1084006	.1577598	.2193335	.2921553	.3738287	.4611974	.5498412
48	.0485709	.0771665	.1164108	.1676525	.2309210	.3038117	.3876184	.4750497
49	.0323683	.0538605	.0834918	.1246524	.1777857	.2386332	.3180833	.4018830
50	.0807974	.0357115	.0581632	.0900987	.1330947	.1807783	.2544641	.3310357
51	.0130006	.0227357	.0393428	.0638764	.0969284	.1417398	.1963868	.2664088
52	.0078803	.0146665	.0258297	.0431596	.0685970	.1039564	.1505880	.2089615
53	.0046309	.0089797	.0164549	.0285799	.0471627	.0741833	.1118094	.1596163
54	.0026579	.0053399	.0101687	.0183671	.0314866	.0513503	.0798497	.1186504
55	.0014563	.0030673	.0060943	.0114523	.0204046	.0348502	.0557813	.0857766
56	.0007790	.0017110	.0035415	.0069862	.0128311	.0228684	.0377706	.0602748
57	.0004038	.0009850	.0019950	.0040620	.0078271	.0143067	.0244594	.0411479
58	.0002028	.0005445	.0010892	.0023096	.0046305	.0087990	.0153805	.0272783
59	.0000986	.0002459	.0005763	.0012728	.0026561	.0052486	.0093430	.0175537
60	.0000465	.0001309	.0002954	.0006798	.0014768	.0030357	.0055176	.0109607
61	.0000212	.0000576	.0001467	.0003518	.0007958	.0017020	.0032497	.0066306
62	.0000094	.0000245	.0000705	.0001763	.0004154	.0009448	.0018494	.0038990
63	.0000040	.0000118	.0000329	.0000856	.0002101	.0005076	.0010276	.0021896
64	.0000017	.0000051	.0000148	.0000402	.0001029	.0002683	.0005645	.0011847
65	.0000007	.0000021	.0000065	.0000183	.0000488	.0001386	.0003011	.0006247
66	.0000003	.0000009	.0000027	.0000081	.0000224	.0000706	.0001449	.0003189
67	.0000001	.0000003	.0000011	.0000034	.0000100	.0000351	.0000698	.0001699
68		.0000001	.0000004	.0000014	.0000043	.0000168	.0000326	.0000824
69			.0000002	.0000006	.0000018	.0000083	.0000147	.0000387
70			.0000001	.0000002	.0000007	.0000038	.0000064	.0000176
71				.0000001	.0000003	.0000009	.0000027	.0000077
72					.0000001	.0000003	.0000011	.0000033
73						.0000001	.0000004	.0000013
74							.0000002	.0000005
75							.0000001	.0000002
76								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

N	.41	.42	.43	.44	.45	.46	.47	.48
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999958	.9999985	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000
27	.9999891	.9999959	.9999985	.9999995	.9999998	.9999999	1.0000000	1.0000000
28	.9999735	.9999895	.9999960	.9999986	.9999995	.9999998	.9999999	1.0000000
29	.9993380	.9999746	.9999900	.9999962	.9999988	.9999996	.9999999	.9999999
30	.9998617	.9999411	.9999759	.9999905	.9999964	.9999994	.9999999	.9999999
31	.9997048	.9998640	.9999443	.9999773	.9999917	.9999987	.9999998	.9999999
32	.9993936	.9997208	.9998766	.9999477	.9999787	.9999969	.9999996	.9999999
33	.9986067	.9994891	.9997378	.9998845	.9999512	.9999902	.9999991	.9999971
34	.9977438	.9988785	.9994649	.9997550	.9998984	.9999747	.9999977	.9999999
35	.9958974	.9978819	.9989502	.9993007	.9997704	.9999504	.9999953	.9999938
36	.9938179	.9961490	.9980184	.9990314	.9995361	.9992541	.9999081	.9999810
37	.9878840	.9938579	.9963977	.9981526	.9990911	.9981712	.9998061	.9999161
38	.9808855	.9836170	.9936880	.9966401	.9980840	.9961996	.9996054	.9998825
39	.9600339	.9814534	.9881308	.9941070	.9964761	.9911116	.9988350	.9996385
40	.9589856	.9708125	.9808803	.9900841	.9937134	.9835356	.9965556	.9989901
41	.9309654	.9555943	.9785404	.9836009	.9906950	.9749078	.9873861	.9936949
42	.9018840	.9346292	.9581049	.9748185	.9847536	.9611451	.9732866	.9875394
43	.8647657	.9067968	.9301648	.9605770	.9758401	.9457832	.9519706	.9756916
44	.8192130	.8711735	.8941328	.9416328	.9626748	.9274069	.9267730	.9585717
45	.7658558	.8272036	.8774106	.9162613	.9449737	.9059444	.8989163	.9377258
46	.7053745	.7754815	.8349904	.8834705	.9208071	.8808078	.8674594	.9080696
47	.6385959	.7146735	.7943050	.8426048	.8893858	.8505769	.8295866	.8695944
48	.5638075	.6479354	.7355489	.7934048	.8500211	.8095204	.7854311	.8243570
49	.4808999	.5764301	.6600736	.7366950	.8029845	.7572588	.7350730	.7733522
50	.4149387	.5034695	.5895112	.6720437	.7486054	.6911601	.6783015	.7166171
51	.3440453	.4285599	.5160501	.6024530	.6870306	.6156926	.6119579	.6711698
52	.2784607	.3571989	.4421634	.5295400	.6215356	.5395800	.5470901	.6081563
53	.2196933	.2890174	.3703437	.4557430	.5529578	.4677242	.4869119	.5476940
54	.1688380	.2305770	.3038744	.3855274	.4898948	.4064567	.4340487	.4918939
55	.1263989	.1788430	.2416088	.3152893	.4267400	.3428311	.3895800	.4526551
56	.0919006	.1341447	.1878278	.2527852	.3676785	.2910036	.3496209	.4136729
57	.0650088	.0988197	.1421647	.1975992	.3041013	.2407202	.3023930	.3697415
58	.0446819	.0699211	.1047518	.1504166	.2475244	.1955606	.2588394	.3236149
59	.0299859	.0483726	.0750165	.1111453	.1980301	.1576319	.2171562	.2765735
60	.0193279	.0325095	.0523197	.0802800	.1551200	.1274476	.1779079	.2298855
61	.0121531	.0212019	.0353007	.0568231	.1195371	.1024110	.1426435	.1910550
62	.0074189	.0134219	.0231787	.0393440	.0903027	.0813632	.1136812	.1552850
63	.0043845	.0083413	.0147660	.0265582	.0671111	.0646905	.0911650	.1261389
64	.0025138	.0049071	.0091347	.0161088	.0487408	.0445079	.0691704	.1031449
65	.0013967	.0028322	.0054675	.0100639	.0360883	.0297278	.0478355	.0737988
66	.0007510	.0015839	.0031754	.0060663	.0260593	.0192670	.0321177	.0512943
67	.0003919	.0008381	.0017869	.0035440	.0167039	.0121116	.0209247	.0346126
68	.0001978	.0004501	.0009739	.0020058	.0092302	.0073809	.0132816	.0224616
69	.0000966	.0002386	.0005119	.0010994	.0052411	.0043585	.0080771	.0143878
70	.0000456	.0001233	.0002625	.0005834	.0028349	.0024920	.0048049	.0088535
71	.0000209	.0000614	.0001307	.0002926	.0014506	.0013803	.0027611	.0052775
72	.0000092	.0000245	.0000620	.0001468	.0007398	.0007396	.0015557	.0030458
73	.0000039	.0000109	.0000286	.0000715	.0003696	.0003833	.0008864	.0017010
74	.0000016	.0000047	.0000128	.0000338	.0001818	.0001921	.0004301	.0009191
75	.0000004	.0000019	.0000059	.0000149	.0000881	.0000963	.0002163	.0004800
76	.0000002	.0000008	.0000023	.0000064	.0000422	.0000435	.0001051	.0002428
77	.0000001	.0000003	.0000009	.0000027	.0000195	.0000197	.0000493	.0001181
78		.0000001	.0000004	.0000011	.0000091	.0000086	.0000225	.0000565
79			.0000001	.0000004	.0000043	.0000038	.0000098	.0000268
80				.0000002	.0000020	.0000015	.0000041	.0000118
81				.0000001	.0000009	.0000006	.0000017	.0000047
82					.0000004	.0000002	.0000007	.0000019
83					.0000001	.0000001	.0000003	.0000007
84							.0000001	.0000003
85								.0000001

N	.49	.50
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000

$$F(r;n,p) = \sum_{x=0}^{r} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 110

x	.49	.50
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	1.00000000	1.00000000
22	1.00000000	1.00000000
23	1.00000000	1.00000000
24	1.00000000	1.00000000
25	1.00000000	1.00000000
26	1.00000000	1.00000000
27	1.00000000	1.00000000
28	1.00000000	1.00000000
29	1.00000000	1.00000000
30	1.00000000	1.00000000
31	.99999999	1.00000000
32	.99999998	.99999999
33	.99999990	.99999997
34	.99999974	.99999991
35	.99999934	.99999976
36	.99999847	.99999948
37	.99999650	.99999868
38	.99999336	.99999665
39	.99998384	.99999209
40	.99996705	.99998336
41	.99993518	.99997011
42	.99987693	.99994168
43	.99977434	.99987787
44	.99960018	.99973841
45	.99931479	.99943350
46	.99886400	.99886887
47	.99817666	.99795150
48	.99716500	.99631159
49	.99572787	.99386430
50	.99378392	.99060830
51	.99113760	.98639935
52	.98778573	.98144744
53	.98363647	.97543612
54	.97867809	.96843845
55	.97293079	.96068872
56	.96631800	.95208346
57	.95874403	.94277816
58	.95038348	.93267281
59	.94129688	.92166479
60	.93150883	.90953521
61	.92107500	.89612779
62	.91009657	.88127484
63	.89863915	.86507454
64	.88677835	.84774486
65	.87460104	.82961158
66	.86220037	.81086388
67	.84966845	.79168856
68	.83708194	.77224665
69	.82452781	.75266179
70	.81206188	.73303742
71	.79976498	.71348941
72	.78770764	.69410830
73	.77595473	.67496013
74	.76456766	.65610450
75	.75359174	.63758619
76	.74306331	.62044813
77	.73301698	.60268898
78	.72348318	.58539989
79	.71448698	.56861464
80	.70604983	.55236491
81	.69818184	.53667315
82	.69089058	.52155138
83	.68418081	.50701138
84	.67805008	.49306084
85	.67249003	.47970009
86	.66749001	.46693063
87		.45475001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 119$$

p	.01	.02	.03	.04	.05	.06	.07	.08
1	.6975956	.9096852	.9733415	.9928326	.9977659	.9993658	.9998824	.9999509
2	.3340993	.6708468	.8758270	.9537191	.9837731	.9945487	.9982315	.9994438
3	.1174703	.4860685	.6961935	.8590402	.9403820	.9764076	.9911667	.9968386
4	.0381315	.3157900	.4803458	.7051870	.8511329	.9312483	.9704881	.9880053
5	.0071333	.0913442	.2865608	.5198810	.7150092	.8476554	.9251600	.9657301
6	.0013856	.0387309	.1487849	.3411211	.5502183	.7249330	.8467985	.9211797
7	.0009110	.0108808	.0678237	.2000779	.3854225	.5761012	.7347186	.8475747
8	.0008893	.0088188	.0274028	.1052095	.2454131	.4287449	.5985428	.7442533
9	.0000036	.0006868	.0099009	.0498696	.1482483	.2857030	.4550457	.6184708
10	.0000004	.0001808	.0038850	.0214311	.0758816	.1778190	.3218358	.4835737
11		.0000297	.0009538	.0083967	.0365115	.1020707	.2115426	.3545416
12		.0000054	.0000877	.0030151	.0162916	.0541602	.1298815	.2433598
13		.0000009	.0000640	.0009970	.0067138	.0266372	.0735560	.1563480
14		.0000001	.0000147	.0003049	.0025647	.0121774	.0390330	.0940780
15			.0000031	.0000866	.0009113	.0051893	.0193586	.0530704
16			.0000006	.0000229	.0003021	.0020669	.0089925	.0281129
17			.0000001	.0000057	.0000937	.0007715	.0039209	.0140065
18				.0000013	.0000271	.0002705	.0016981	.0065744
19				.0000003	.0000075	.0000893	.0006216	.0029123
20				.0000001	.0000019	.0000278	.0002269	.0012195
21					.0000005	.0000082	.0000783	.0004838
22					.0000001	.0000023	.0000256	.0001818
23						.0000006	.0000080	.0000649
24						.0000002	.0000023	.0000220
25							.0000007	.0000071
26							.0000002	.0000022
27								.0000006
28								.0000002

p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999866	.9999964	.9999991	.9999998	.9999999	1.0000000	1.0000000	1.0000000
2	.9998294	.9999490	.9999851	.9999957	.9999988	.9999997	.9999999	1.0000000
3	.9989116	.9996380	.9998833	.9999634	.9999889	.9999967	.9999990	.9999997
4	.9953717	.9989903	.9996925	.9997916	.9999308	.9999777	.9999930	.9999979
5	.9858187	.9976477	.9991123	.9996794	.9998683	.9999623	.9999877	.9999967
6	.9681236	.9938499	.9976329	.9969816	.9988155	.9995533	.9998376	.9999430
7	.9387850	.9854813	.9938902	.9914612	.9963686	.9985171	.9994196	.9997813
8	.8894372	.9717985	.9874612	.9793091	.9904458	.9957941	.9982887	.9992848
9	.7835002	.8820898	.9749213	.9561096	.9780683	.9895882	.9952864	.9979586
10	.6364782	.7624804	.8551843	.9170923	.9552575	.9771283	.9888026	.9948445
11	.5091686	.6589446	.7711083	.8585664	.9177639	.9540164	.9764518	.9883198
12	.3844025	.5384195	.6681122	.7794838	.8624484	.9188250	.9547115	.9760046
13	.2733470	.4110744	.5537548	.6824880	.7875896	.8660933	.9201905	.9548928
14	.1889442	.3016324	.4373189	.5734946	.6957678	.7954385	.8700448	.9217945
15	.1158486	.2088890	.3283588	.4610845	.5910840	.7085523	.8030433	.8740609
16	.0683824	.1367833	.2340900	.3536866	.4832240	.6091146	.7202769	.8104162
17	.0382548	.0866588	.1583571	.2585085	.3776864	.5041073	.6253389	.7316179
18	.0202006	.0495873	.1010451	.1798886	.2821388	.4005365	.5238308	.6406798
19	.0100826	.0275051	.0619254	.1191369	.2012346	.3049944	.4283887	.5485844
20	.0047638	.0144625	.0368293	.0750991	.1369712	.2283160	.3270999	.4431390
21	.0021328	.0072166	.0197085	.0450734	.0889584	.1550196	.2430798	.3484863
22	.0009063	.0034811	.0103060	.0257711	.0551365	.1033735	.1731807	.2634919
23	.0003860	.0015486	.0051386	.0140462	.0326840	.0659219	.1188333	.1913756
24	.0001408	.0006683	.0024360	.0073032	.0184369	.0403095	.0773390	.1334438
25	.0000515	.0002710	.0011028	.0036852	.0099573	.0234665	.0484784	.0893049
26	.0000180	.0001858	.0004767	.0017193	.0051424	.0131093	.0291148	.0573569
27	.0000060	.0000395	.0001969	.0007797	.0025413	.0070134	.0167645	.0353561
28	.0000019	.0000141	.0000778	.0003384	.0011085	.0035953	.0093874	.0209817
29	.0000006	.0000048	.0000294	.0001456	.0005458	.0017671	.0049046	.0118879
30	.0000001	.0000016	.0000107	.0000560	.0002370	.0008331	.0024948	.0064884
31		.0000005	.0000037	.0000214	.0000988	.0003770	.0012181	.0034030
32		.0000001	.0000012	.0000078	.0000396	.0001639	.0005716	.0017157
33			.0000004	.0000028	.0000158	.0000684	.0002578	.0008319
34			.0000001	.0000009	.0000056	.0000275	.0001118	.0003801
35				.0000003	.0000020	.0000106	.0000467	.0001743
36				.0000001	.0000007	.0000039	.0000188	.0000753
37					.0000002	.0000014	.0000073	.0000314
38					.0000001	.0000005	.0000027	.0000186
39						.0000002	.0000010	.0000049
40						.0000001	.0000003	.0000018
41							.0000001	.0000007
42								.0000002
43								.0000001

p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999961	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999807	.9999936	.9999980	.9999994	.9999998	.9999999	1.0000000	1.0000000
7	.9999306	.9999781	.9999935	.9999979	.9999993	.9999997	.9999999	1.0000000
8	.9997818	.9999358	.9999683	.9999868	.9999956	.9999985	.9999995	.9999999
9	.9991891	.9998114	.9998698	.9999517	.9999840	.9999940	.9999980	.9999993
10	.9977187	.9994869	.9996081	.9998434	.9999406	.9999788	.9999933	.9999974
11	.9944699	.9974945	.9989113	.9995455	.9998174	.9999393	.9999736	.9999908
12	.9878883	.9941613	.9973060	.9988076	.9994930	.9997926	.9999183	.9999690
13	.9757860	.9875764	.9939168	.9971473	.9987169	.9994456	.9997695	.9999077
14	.9553031	.9756790	.9873731	.9937309	.9970188	.9986399	.9994038	.9997487
15	.9235883	.9569058	.9757497	.9878841	.9936011	.9969193	.9988768	.9993683
16	.8781102	.9285812	.9566660	.9759473	.9872416	.9935283	.9978475	.9985875
17	.8175502	.8921884	.9278692	.9573574	.9762535	.9872945	.9958099	.9968016
18	.7424578	.8468097	.8868167	.9297021	.9585859	.9766517	.9874136	.9934995

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 119$$

r	.17	.18	.19	.20	.21	.22	.23	.24
19	.6552382	.7527880	.8312501	.8902404	.9318977	.9596415	.9771884	.9875903
20	.5602973	.6690973	.7627116	.8377980	.8948282	.9341377	.9607973	.9776709
21	.4639680	.5772417	.6823270	.7722449	.8441611	.8981707	.9364067	.9620086
22	.3691671	.4821855	.5934360	.6889660	.7814188	.8503465	.9020607	.9386919
23	.2835317	.3892370	.5005544	.6089476	.7071244	.7902597	.8563607	.9058922
24	.2095423	.3031881	.4086699	.5183232	.6238346	.7187852	.7987905	.8628094
25	.1489245	.2276331	.3224573	.4275188	.5352732	.6381474	.7300054	.8070310
26	.1017448	.1646091	.2456110	.3413401	.4458151	.5517201	.6519898	.7408170
27	.0668082	.1145919	.1804413	.2634479	.3598411	.4635882	.5676145	.6658805
28	.0421609	.0767741	.1277870	.1963740	.2811224	.3779471	.4808657	.5829926
29	.0255730	.0494978	.0872051	.1412776	.2123680	.2986186	.3957265	.4976735
30	.0149131	.0307095	.0573345	.0980554	.1550177	.2283907	.3159251	.4131847
31	.0083625	.0183367	.0363144	.0656388	.1098827	.1689670	.2444147	.3330335
32	.0045106	.0105392	.0221587	.0423720	.0743791	.1208481	.1830902	.2604178
33	.0023410	.0058322	.0130275	.0263761	.0488642	.0835251	.1327164	.1973853
34	.0011695	.0031082	.0073806	.0158333	.0309832	.0557721	.0930479	.1448536
35	.0005626	.0015957	.0040302	.0091666	.0189604	.0359725	.0636767	.1029300
36	.0002607	.0007894	.0021216	.0051189	.0111905	.0224101	.0413352	.0707589
37	.0001164	.0003764	.0010770	.0027578	.0063848	.0134884	.0261819	.0470618
38	.0000501	.0001731	.0005273	.0014336	.0035141	.0078371	.0160884	.0302739
39	.0000208	.0000768	.0002491	.0007193	.0018674	.0043999	.0094837	.0188344
40	.0000083	.0000328	.0001136	.0003484	.0009583	.0023864	.0054236	.0113516
41	.0000032	.0000136	.0000500	.0001629	.0004750	.0012505	.0029980	.0065929
42	.0000012	.0000054	.0000212	.0000736	.0002274	.0006332	.0016020	.0037096
43	.0000004	.0000021	.0000087	.0000321	.0001052	.0003099	.0008276	.0020186
44	.0000001	.0000008	.0000035	.0000135	.0000470	.0001466	.0004134	.0010624
45	.0000001	.0000003	.0000013	.0000055	.0000203	.0000670	.0001996	.0005408
46		.0000001	.0000005	.0000022	.0000085	.0000296	.0000933	.0002663
47			.0000002	.0000008	.0000034	.0000127	.0000421	.0001369
48			.0000001	.0000003	.0000013	.0000052	.0000184	.0000585
49				.0000001	.0000005	.0000021	.0000078	.0000861
50					.0000002	.0000008	.0000032	.0000113
51					.0000001	.0000003	.0000013	.0000047
52						.0000001	.0000005	.0000019
53							.0000002	.0000007
54							.0000001	.0000003
55								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999967	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999886	.9999960	.9999986	.9999995	.9999999	1.0000000	1.0000000	1.0000000
13	.9999644	.9999867	.9999952	.9999983	.9999994	.9999998	.9999999	1.0000000
14	.9998980	.9999601	.9999849	.9999945	.9999981	.9999993	.9999998	.9999999
15	.9997303	.9998892	.9999561	.9999832	.9999938	.9999978	.9999998	.9999998
16	.9993391	.9997147	.9998815	.9999526	.9999817	.9999938	.9999976	.9999998
17	.9984915	.9993164	.9997020	.9998750	.9999495	.9999803	.9999926	.9999993
18	.9967798	.9984684	.9992999	.9996933	.9998698	.9999470	.9999798	.9999981
19	.9935464	.9967800	.9984572	.9992896	.9996854	.9998660	.9999480	.9999953
20	.9878171	.9936266	.9968002	.9984571	.9992650	.9996814	.9998634	.9999436
21	.9782683	.9880868	.9937360	.9968384	.9984672	.9992858	.9996000	.9998831
22	.9632630	.9789109	.9883931	.9938709	.9968926	.9984866	.9992916	.9996811
23	.9409884	.9645496	.9795908	.9887300	.9940277	.9969609	.9985148	.9993018
24	.9096605	.9432692	.9650590	.9802986	.9890925	.9940031	.9970413	.9985491
25	.8678979	.9133616	.9455443	.9671830	.9810294	.9894757	.9943943	.9971381
26	.8149985	.8734310	.9169925	.9478011	.9685145	.9817766	.9890752	.9945983
27	.7512481	.8227082	.8788131	.9205505	.9500337	.9698473	.9825349	.9908073
28	.6780531	.7611231	.8301735	.8840481	.9240334	.9528373	.9711757	.9838996
29	.5978872	.6904576	.7710636	.8374061	.8891396	.9287437	.9544074	.9718481
30	.5140355	.6123278	.7024604	.7804887	.8444166	.8940910	.9307675	.9565404
31	.4301837	.5299736	.6263390	.7140849	.7896151	.8513142	.8989051	.9340161
32	.3499386	.4469020	.5455084	.6399460	.7255582	.7984579	.8578078	.9036847
33	.2763805	.3666368	.4632936	.5606586	.6531696	.7362809	.8070304	.8648050
34	.2117385	.2922880	.3831266	.4793689	.5754416	.6660289	.7468876	.8153443
35	.1578365	.2262133	.3081275	.3994075	.4951377	.5898735	.6785418	.7571874
36	.1131158	.1698330	.2407604	.3238884	.4154601	.5106796	.6039687	.6907888
37	.0787997	.1236113	.1836216	.2553619	.3395623	.4313457	.5257936	.6177402
38	.0531399	.0871809	.1363043	.1955818	.2700083	.3551488	.4470068	.5406986
39	.0346828	.0595601	.0988049	.1454143	.2086986	.2846883	.3706286	.4618437
40	.0219049	.0394044	.0663106	.1048949	.1566922	.2219388	.2993488	.3859988
41	.0133863	.0252409	.0444336	.0733799	.1141949	.1681707	.2353046	.3140319
42	.0079149	.0156524	.0288488	.0497649	.0807568	.1237698	.1798636	.2487744
43	.0045279	.0093957	.0181336	.0327097	.0553928	.0884393	.1336083	.1917463
44	.0025062	.0054523	.0110407	.0208327	.0368405	.0613093	.0963898	.1436888
45	.0013422	.0030703	.0065094	.0128547	.0237518	.0418387	.0675097	.1046849
46	.0006955	.0016714	.0037162	.0076838	.0148418	.0280983	.0458846	.0739870
47	.0003488	.0008807	.0020848	.0044419	.0089873	.0184054	.0305850	.0507931
48	.0001692	.0004492	.0011995	.0024949	.0052738	.0118483	.0199406	.0338403
49	.0000795	.0002218	.0006698	.0013551	.0029976	.0074934	.0126986	.0218737
50	.0000361	.0001060	.0003659	.0007188	.0016506	.0035661	.0078138	.0137140
51	.0000159	.0000490	.0001389	.0003632	.0008807	.0019898	.0048048	.0083388
52	.0000068	.0000220	.0000653	.0001798	.0004552	.0010757	.0029749	.0049188
53	.0000028	.0000095	.0000298	.0000856	.0002278	.0005635	.0013001	.0028098
54	.0000011	.0000040	.0000131	.0000396	.0001105	.0002859	.0006997	.0015868
55	.0000004	.0000016	.0000056	.0000178	.0000519	.0001406	.0003548	.0008388
56	.0000002	.0000006	.0000023	.0000077	.0000236	.0000669	.0001766	.0004347

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 119

c	.25	.26	.27	.28	.29	.30	.31	.32
57	.0000001	.0000002	.0000009	.0000032	.0000104	.0000309	.0000858	.0002198
58		.0000001	.0000004	.0000013	.0000044	.0000138	.0000398	.0001071
59			.0000001	.0000005	.0000018	.0000060	.0000180	.0000507
60				.0000002	.0000007	.0000025	.0000079	.0000232
61				.0000001	.0000003	.0000010	.0000034	.0000103
62					.0000001	.0000004	.0000014	.0000044
63						.0000002	.0000005	.0000018
64						.0000001	.0000002	.0000007
65							.0000001	.0000003
66								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999971	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999917	.9999970	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
20	.9999776	.9999914	.9999968	.9999989	.9999996	.9999999	1.0000000	1.0000000
21	.9999428	.9999772	.9999912	.9999968	.9999988	.9999996	.9999999	1.0000000
22	.9998619	.9999425	.9999769	.9999911	.9999967	.9999988	.9999996	.9999999
23	.9996846	.9998630	.9999427	.9999770	.9999911	.9999967	.9999988	.9999996
24	.9993162	.9996901	.9998650	.9999434	.9999772	.9999912	.9999967	.9999988
25	.9985903	.9993340	.9996976	.9998680	.9999446	.9999776	.9999913	.9999968
26	.9972318	.9986369	.9993550	.9997066	.9998718	.9999461	.9999782	.9999916
27	.9948126	.9973386	.9986881	.9993786	.9997171	.9998763	.9999480	.9999790
28	.9907085	.9950348	.9974512	.9987430	.9994044	.9997286	.9998814	.9999508
29	.9840666	.9911354	.9952629	.9975682	.9988008	.9994319	.9997414	.9998870
30	.9738012	.9848319	.9915653	.9954947	.9976884	.9988608	.9994607	.9997548
31	.9586330	.9750902	.9855924	.9919957	.9957286	.9978107	.9989222	.9994905
32	.9371842	.9606823	.9763587	.9863449	.9924241	.9959629	.9979339	.9989846
33	.9081323	.9402711	.9626859	.9776040	.9870870	.9928485	.9961968	.9980571
34	.8704082	.9125501	.9432761	.9646416	.9788234	.9878162	.9931671	.9964871
35	.8234105	.8764289	.9168402	.9461988	.9665476	.9800146	.9885304	.9936783
36	.7671935	.8312382	.8822702	.9210045	.9490385	.9684022	.9811757	.9892879
37	.7025860	.7769182	.8388361	.8879371	.9250447	.9517951	.9702040	.9833050
38	.6312033	.7141453	.7863721	.8462118	.8934337	.9289622	.9544603	.9719519
39	.5553327	.6443643	.7254118	.7955649	.8533720	.8987639	.9327587	.9570579
40	.4777209	.5697036	.6572273	.7363958	.8045085	.8603229	.9030313	.9364385
41	.4012675	.4927804	.5838185	.6698305	.7471068	.8132016	.8670700	.9089389
42	.3287105	.4164257	.5076449	.5976043	.6821527	.7575532	.8214602	.8736168
43	.2623418	.3433764	.4314713	.5231173	.6113070	.6942116	.7677428	.8290877
44	.2038055	.2759899	.3580230	.4484025	.5369001	.6246985	.7060148	.7776823
45	.1540060	.2160289	.2897110	.3736444	.4612181	.5510962	.6378460	.7178670
46	.1131258	.1645472	.2284053	.3034962	.3873357	.4759171	.5652078	.6507788
47	.0807347	.1218832	.1753010	.2409246	.3173379	.4017924	.4904986	.5791373
48	.0559553	.0877465	.1306882	.1862571	.2535777	.3312289	.4163105	.5049681
49	.0376482	.0613681	.0950162	.1401324	.1974080	.2663560	.3451630	.4307869
50	.0245028	.0416781	.0670282	.1025380	.1496082	.2087435	.2798528	.3591346
51	.0155735	.0274775	.0459296	.0729324	.1103062	.1593082	.2203566	.2938592
52	.0095700	.0175801	.0305591	.0504017	.0790774	.1183153	.1698886	.2319408
53	.0057032	.0109126	.0197361	.0338286	.0550934	.0854600	.1285604	.1793544
54	.0032956	.0065705	.0123689	.0220437	.0372868	.0600037	.0960773	.1350360
55	.0018462	.0038366	.0075204	.0139416	.0245049	.0409342	.0651314	.0989861
56	.0010025	.0021722	.0044350	.0085555	.0156333	.0271214	.0447714	.0704753
57	.0005276	.0011922	.0025363	.0050931	.0096786	.0174461	.0298947	.0487988
58	.0002691	.0006343	.0014062	.0029404	.0058133	.0108919	.0193033	.0328861
59	.0001330	.0003270	.0007558	.0016461	.0033866	.0065977	.0121976	.0214435
60	.0000637	.0001634	.0003937	.0008933	.0019131	.0038766	.0074485	.0135979
61	.0000295	.0000791	.0001987	.0004699	.0010477	.0022088	.0044188	.0083674
62	.0000133	.0000371	.0000972	.0002395	.0005568	.0012202	.0025345	.0049948
63	.0000058	.0000168	.0000460	.0001183	.0002861	.0006533	.0014115	.0028915
64	.0000024	.0000074	.0000211	.0000566	.0001426	.0003320	.0007619	.0016288
65	.0000010	.0000032	.0000094	.0000262	.0000688	.0001704	.0003985	.0008827
66	.0000001	.0000013	.0000040	.0000118	.0000322	.0000889	.0002019	.0004658
67	.0000001	.0000005	.0000017	.0000051	.0000146	.0000391	.0000991	.0002375
68	.0000001	.0000002	.0000007	.0000021	.0000064	.0000178	.0000471	.0001174
69		.0000001	.0000003	.0000009	.0000027	.0000079	.0000217	.0000568
70			.0000001	.0000003	.0000011	.0000034	.0000096	.0000260
71				.0000001	.0000004	.0000014	.0000041	.0000117
72					.0000002	.0000006	.0000017	.0000051
73					.0000001	.0000002	.0000007	.0000021
74						.0000001	.0000003	.0000009
75							.0000001	.0000003
76								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 119$$

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	.99999988	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
26	.99999969	.99999989	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
27	.99999919	.99999970	.99999989	.99999996	.99999999	1.00000000	1.00000000	1.00000000
28	.99999799	.99999928	.99999971	.99999990	.99999996	.99999999	1.00000000	1.00000000
29	.99995526	.99998809	.99999926	.99999973	.99999990	.99999997	.99999999	1.00000000
30	.99984930	.99995551	.99998820	.99999330	.99999974	.99999991	.99999997	.99999999
31	.99976687	.99988992	.99995579	.99998831	.99999935	.99999976	.99999992	.99999997
32	.99955209	.99977830	.99990057	.99996607	.99998843	.99999940	.99999978	.99999998
33	.99904731	.99955816	.99977975	.99991123	.99996636	.99998855	.99999945	.99999980
34	.99817966	.99911098	.99955822	.99982120	.99993188	.99996664	.99999867	.99999950
35	.99665440	.99830051	.99917151	.99962264	.99982631	.99992542	.99996931	.99999879
36	.99408051	.99668772	.99841911	.99923229	.99964251	.99984041	.99993181	.99997211
37	.98990691	.99447251	.99709461	.99853481	.99929141	.99967161	.99985411	.99993801
38	.98340091	.99056621	.99485321	.99730561	.99864721	.99934891	.99969971	.99986741
39	.97364471	.98446211	.99120441	.99522161	.99750971	.99867071	.99940421	.99972681
40	.95956381	.97528171	.98546761	.99180071	.99557691	.99770631	.99886001	.99945731
41	.93999371	.96198591	.97686211	.98647641	.99241401	.99591831	.99789481	.99895981
42	.91378971	.94343451	.96433441	.97838541	.98742771	.99298371	.99624551	.99807481
43	.87997191	.91848601	.94675901	.96657931	.97930511	.98834101	.99353921	.99655771
44	.83788961	.88611501	.92303041	.94996831	.96675071	.98121911	.98921581	.99405011
45	.78737791	.84567091	.89211121	.92742461	.95306321	.97083881	.98260901	.99005191
46	.72868561	.79683501	.85323621	.89790351	.93167111	.95604461	.97284401	.98399071
47	.66347551	.73994511	.80605841	.86058941	.90351481	.93577111	.95891361	.97474671
48	.59288681	.67559591	.75077991	.81505251	.86773391	.90894751	.93978641	.96161711
49	.51930701	.60645821	.68822601	.76138411	.82382101	.87467881	.91428031	.94353051
50	.44521821	.53353301	.61985301	.70028351	.77176101	.83236701	.88140881	.91928601
51	.37313861	.45969191	.54763951	.63307281	.71212861	.78191351	.84069341	.88794481
52	.30537091	.38717051	.47393551	.56162611	.64611851	.72376851	.79184401	.84880251
53	.24377871	.31858161	.40123621	.48821661	.57549221	.65899091	.73519571	.80155441
54	.18968871	.25579401	.33188631	.41530181	.50244311	.58923721	.67169061	.74648031
55	.14373991	.20022331	.26795311	.34528041	.42939401	.51661301	.60286031	.68421771
56	.10600391	.15266601	.21095361	.28026061	.35875981	.44349971	.53079411	.61636041
57	.07603441	.11330821	.16181131	.22187541	.29271221	.37232061	.45761581	.54477461
58	.05301591	.08180771	.12083661	.17117251	.23298491	.30530401	.38595951	.47173971
59	.03591681	.05742381	.08779411	.12858711	.18074691	.24427871	.31803291	.39967341
60	.02363161	.03916791	.06202231	.09399281	.13655801	.19053201	.25575411	.33089571
61	.01309451	.02594821	.04258041	.06681171	.10040341	.14474781	.20052581	.26740851
62	.00935641	.01668911	.02839461	.04615521	.07179221	.10702521	.15315551	.21078651
63	.00562611	.01041691	.01838351	.03097231	.04989331	.07694421	.11385801	.16176021
64	.00328081	.00630751	.01155051	.02017901	.03368251	.05378621	.08232831	.12090191
65	.00186471	.00370361	.00704011	.01275861	.02207701	.03652631	.05786291	.08788491
66	.00101621	.00210821	.00416101	.00780521	.01404241	.02407871	.03950511	.06209641
67	.00053941	.00116291	.00238391	.00466381	.00866391	.01540311	.02618541	.04361981
68	.00027731	.00062151	.00133351	.00268261	.00518281	.00955701	.01684171	.02983981
69	.00013811	.00032161	.00071171	.00149831	.00300481	.00574881	.01050551	.01983931
70	.00006651	.00016181	.00037061	.00081051	.00168771	.00335101	.00635831	.01151001
71	.00003101	.00007811	.00018681	.00042441	.00091791	.00189201	.00378171	.00699401
72	.00001401	.00003671	.00009111	.00021511	.00048331	.00103431	.00211361	.00411711
73	.00000611	.00001661	.00004301	.00010551	.00024621	.00054781	.00115981	.00235471
74	.00000261	.00000731	.00001961	.00005001	.00012131	.00028011	.00061641	.00128451
75	.00000101	.00000311	.00000861	.00002291	.00005781	.00013861	.00031681	.00069081
76	.00000041	.00000131	.00000371	.00001021	.00002661	.00006631	.00015741	.00035641
77	.00000021	.00000051	.00000151	.00000431	.00001181	.00003061	.00007551	.00017771
78	.00000011	.00000021	.00000061	.00000181	.00000511	.00001371	.00003501	.00008561
79		.00000011	.00000021	.00000071	.00000211	.00000591	.00001571	.00003981
80			.00000011	.00000031	.00000081	.00000241	.00000661	.00001781
81				.00000011	.00000031	.00000101	.00000281	.00000771
82					.00000011	.00000041	.00000111	.00000331
83						.00000011	.00000041	.00000131
84							.00000011	.00000051
85								.00000021
86								.00000011

x	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000

$$P(o,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 119

r	.49	.50
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	1.00000000	1.00000000
22	1.00000000	1.00000000
23	1.00000000	1.00000000
24	1.00000000	1.00000000
25	1.00000000	1.00000000
26	1.00000000	1.00000000
27	1.00000000	1.00000000
28	1.00000000	1.00000000
29	1.00000000	1.00000000
30	1.00000000	1.00000000
31	.99999999	1.00000000
32	.99999997	.99999999
33	.99999993	.99999998
34	.99999982	.99999994
35	.99999954	.99999984
36	.99999891	.99999959
37	.99999748	.99999902
38	.99999440	.99999774
39	.99998801	.99999497
40	.99997587	.99998925
41	.99995079	.99997773
42	.99990547	.99995559
43	.99982461	.99991447
44	.99968549	.99984084
45	.99945460	.99971366
46	.99908485	.99950168
47	.99851345	.99916068
48	.99766071	.99863104
49	.99643176	.99781659
50	.99472087	.99665543
51	.99241955	.99507382
52	.98942810	.99289340
53	.98566961	.99004208
54	.98110464	.98643758
55	.97574403	.98203209
56	.96965721	.97682559
57	.96297364	.97087831
58	.95587682	.96429868
59	.94850686	.95736850
60	.94134894	.95000000
61	.93438898	.94273150
62	.92784400	.93570132
63	.92111329	.92912469
64	.91706214	.92317441
65	.91881571	.91796791
66	.90936349	.91356848
67	.90644971	.90995792
68	.90458717	.90710660
69	.90307179	.90492618
70	.90199565	.90331457
71	.90125712	.90216341
72	.90076742	.90136896
73	.90045375	.90083932
74	.90025973	.90049832
75	.90014584	.90028634
76	.90007704	.90015916
77	.90003980	.90008553
78	.90001994	.90004411
79	.90000961	.90002287
80	.90000449	.90001177
81	.90000202	.90000603
82	.90000087	.90000306
83	.90000036	.90000098
84	.90000015	.90000041
85	.90000006	.90000016
86	.90000008	.90000006
87	.90000001	.90000002
88		.90000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 120$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7006196	.9114621	.9741412	.9925433	.9978776	.9994039	.9998348	.9999549
2	.3377343	.6946347	.8761705	.9552597	.9844728	.9948378	.9983429	.9994839
3	.1196365	.4313442	.7015645	.8628274	.9424946	.9774962	.9916613	.9970469
4	.0329849	.2199954	.4867243	.7113411	.8585924	.9339579	.9718798	.9887120
5	.0073833	.0938331	.2923714	.5267173	.7218087	.8526710	.9283287	.9675121
6	.0013837	.0340991	.1529181	.3482475	.5584518	.7382971	.8522788	.9247437
7	.0002282	.0107338	.0702526	.2057196	.3936620	.5850312	.7485638	.8534631
8	.0000311	.0029680	.0286154	.1090043	.2524136	.4319462	.6080751	.7525190
9	.0000039	.0007295	.0104260	.0520832	.1474065	.2939255	.4650905	.6285334
10	.0000004	.0001609	.0034253	.0225686	.0786299	.1842920	.3311599	.4943655
11		.0000321	.0010219	.0089181	.0384500	.1066156	.2192630	.3648642
12		.0000058	.0002786	.0032304	.0173026	.0570348	.1350396	.2525544
13		.0000010	.0000698	.0010778	.0071987	.0282885	.0774567	.1633089
14		.0000002	.0000161	.0003326	.0027721	.0130480	.0414496	.0990541
15			.0000035	.0000953	.0009940	.0056086	.0207358	.0563505
16			.0000007	.0000255	.0003326	.0022543	.0097181	.0301095
17			.0000001	.0000064	.0001042	.0008492	.0042759	.0161350
18				.0000015	.0000306	.0003006	.0017700	.0081690
19				.0000003	.0000085	.0001002	.0006906	.0032053
20				.0000001	.0000022	.0000315	.0002545	.0013549
21					.0000005	.0000094	.0000887	.0005424
22					.0000001	.0000026	.0000293	.0002059
23						.0000007	.0000092	.0000742
24						.0000002	.0000027	.0000255
25							.0000008	.0000083
26							.0000002	.0000026
27							.0000001	.0000008
28								.0000002
29								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999878	.9999968	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000
2	.9998435	.9999537	.9999866	.9999962	.9999990	.9999997	.9999999	1.0000000
3	.9989942	.9996691	.9998945	.9999673	.9999901	.9999971	.9999992	.9999998
4	.9956903	.9988250	.9994465	.9998123	.9999384	.9999804	.9999939	.9999982
5	.9861385	.9943819	.9978269	.9991938	.9997121	.9999008	.9999669	.9999893
6	.9642022	.9839597	.9931830	.9972373	.9989278	.9996002	.9998563	.9999502
7	.9226309	.9617641	.9821819	.9921236	.9966815	.9986681	.9994823	.9998078
8	.8556731	.9216000	.9600384	.9807673	.9918150	.9961753	.9984073	.9993638
9	.7621346	.8585667	.9213806	.9586935	.9796773	.9904570	.9957877	.9981707
10	.6470102	.7714084	.8619220	.9217744	.9582229	.9788727	.9908438	.9953488
11	.5206254	.6639131	.7803500	.8655895	.9226381	.9579401	.9826164	.9893637
12	.3956314	.5444740	.6795308	.7889737	.8694654	.9236638	.9679751	.9779750
13	.2833480	.4239209	.5663451	.6940747	.7972052	.8734757	.9453691	.9582707
14	.1910805	.3126566	.4501269	.5865666	.7077046	.8053302	.9775666	.9270903
15	.1213412	.2181634	.3403444	.4745209	.6053889	.7205444	.8130936	.8816983
16	.0726004	.1439687	.2444595	.3665496	.4973498	.6230079	.7326918	.8205993
17	.0409657	.0898684	.1666877	.2699275	.3914063	.5188003	.6395796	.7442856
18	.0218254	.0530944	.1078834	.1893230	.2945600	.4150364	.5390570	.6552899
19	.0109932	.0297133	.0662946	.1264271	.2117521	.3183703	.4375489	.5582893
20	.0052480	.0157668	.0386999	.0803836	.1453255	.2338909	.3413833	.4590407
21	.0023695	.0079412	.0214764	.0486764	.0952001	.1644411	.2556828	.3636307
22	.0010167	.0038007	.0113396	.0280874	.0595334	.1106040	.1836656	.2770910
23	.0004146	.0017304	.0057017	.0154531	.0355506	.0711452	.1264755	.2029148
24	.0001602	.0007503	.0027326	.0081123	.0202812	.0438092	.0834731	.1427187
25	.0000595	.0003101	.0012495	.0040665	.0110896	.0258105	.0528024	.0963671
26	.0000210	.0001223	.0005456	.0019480	.0057683	.0145592	.0320184	.0624686
27	.0000071	.0000461	.0002277	.0008924	.0028794	.0078668	.0186170	.0388768
28	.0000023	.0000166	.0000909	.0003913	.0013765	.0040738	.0103835	.0232312
29	.0000007	.0000057	.0000347	.0001643	.0006306	.0020230	.0055575	.0133333
30	.0000002	.0000019	.0000127	.0000662	.0002771	.0009639	.0028557	.0073523
31	.0000001	.0000006	.0000045	.0000255	.0001168	.0004409	.0014095	.0038966
32		.0000002	.0000015	.0000095	.0000473	.0001937	.0006685	.0019657
33		.0000001	.0000005	.0000034	.0000184	.0000818	.0003049	.0009733
34			.0000002	.0000012	.0000069	.0000332	.0001337	.0004591
35				.0000004	.0000025	.0000130	.0000565	.0002085
36				.0000001	.0000009	.0000049	.0000239	.0000918
37					.0000003	.0000018	.0000090	.0000384
38					.0000001	.0000006	.0000034	.0000156
39						.0000002	.0000018	.0000061
40						.0000001	.0000004	.0000023
41							.0000001	.0000008
42								.0000003
43								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999947	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999833	.9999948	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000
7	.9999308	.9999760	.9999919	.9999974	.9999992	.9999997	.9999999	1.0000000
8	.9997856	.9999096	.9999677	.9999889	.9999963	.9999988	.9999996	.9999999
9	.9992489	.9997036	.9998874	.9999587	.9999864	.9999959	.9999985	.9999995
10	.9979374	.9991410	.9996830	.9998651	.9999494	.9999817	.9999948	.9999978
11	.9950218	.9977703	.9990486	.9996081	.9998433	.9999401	.9999779	.9999921
12	.9890078	.9947613	.9976108	.9989558	.9995611	.9998887	.9999310	.9999741
13	.9778188	.9887617	.9948608	.9974794	.9988729	.9995819	.9998037	.9999284
14	.9587801	.9778805	.9896158	.9944142	.9973754	.9988171	.9994879	.9997868
15	.9289772	.9594445	.9799580	.9885375	.9943188	.9972978	.9987670	.9994596
16	.8884410	.9309903	.9608919	.9782106	.9885771	.9942697	.9978488	.9987893
17	.8378603	.8899719	.9330976	.9618393	.9785408	.9886646	.9948688	.9978158

$$B(x,n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 120

x	.17	.18	.19	.20	.21	.22	.23	.24
18	.7552099	.8348083	.8940736	.9352711	.9622723	.9789931	.9888111	.9942930
19	.6700621	.7656979	.8416936	.8981326	.9374259	.9633038	.9794940	.9890085
20	.5764373	.6841616	.7757339	.8482865	.9021308	.9397405	.9645534	.9800516
21	.4795976	.5937757	.6976000	.7851556	.8546752	.9060834	.9420165	.9657676
22	.3851470	.4992956	.6103253	.7104270	.7945947	.8600679	.9099603	.9442879
23	.2980931	.4059677	.5163019	.6261553	.7227263	.8034708	.8668717	.9137641
24	.2221205	.3186769	.4261280	.5363761	.6413355	.7345096	.8130517	.8726932
25	.1592295	.2412330	.3438377	.4456617	.5538731	.6550877	.7450260	.8202736
26	.1097653	.1759534	.2702118	.3585759	.4646013	.5707341	.6698872	.7567004
27	.0727474	.1235950	.1998035	.2790263	.3778957	.4829772	.5870070	.6833636
28	.0463509	.0835813	.1377913	.2097888	.2976533	.3968037	.5000179	.6027273
29	.0283936	.0544075	.0949157	.1522969	.2268065	.3160753	.4153085	.5181501
30	.0167254	.0340914	.0630099	.1066998	.1670613	.2438408	.3342794	.4334194
31	.0094761	.0205638	.0403082	.0721281	.1188870	.1820402	.2660621	.3582564
32	.0051655	.0119428	.0248463	.0470253	.0817089	.1311343	.1971948	.2778454
33	.0027099	.0066795	.0147624	.0295783	.0542233	.0917362	.1443024	.2124910
34	.0013687	.0035985	.0084535	.0179419	.0347302	.0610778	.1021716	.1574557
35	.0006657	.0018600	.0046668	.0104999	.0214058	.0403204	.0699701	.1129845
36	.0003120	.0009345	.0024843	.0059284	.0128288	.0253938	.0463357	.0784775
37	.0001409	.0004508	.0012755	.0032300	.0073957	.0154481	.0296672	.0527486
38	.0000614	.0002097	.0006318	.0016284	.0041169	.0090795	.0183637	.0343029
39	.0000258	.0000941	.0003020	.0008621	.0022132	.0051560	.0109890	.0215799
40	.0000104	.0000407	.0001393	.0004225	.0011492	.0028293	.0063574	.0131323
41	.0000041	.0000170	.0000621	.0002000	.0005765	.0015094	.0035559	.0077302
42	.0000015	.0000069	.0000267	.0000914	.0002794	.0007691	.0019231	.0044016
43	.0000006	.0000027	.0000111	.0000404	.0001309	.0003810	.0010057	.0024245
44	.0000002	.0000010	.0000045	.0000172	.0000593	.0001825	.0005086	.0012919
45	.0000001	.0000004	.0000017	.0000071	.0000259	.0000845	.0002488	.0006660
46		.0000001	.0000006	.0000028	.0000110	.0000379	.0001177	.0003322
47			.0000002	.0000011	.0000045	.0000164	.0000539	.0001693
48			.0000001	.0000004	.0000018	.0000069	.0000239	.0000749
49				.0000001	.0000007	.0000028	.0000102	.0000339
50				.0000001	.0000003	.0000011	.0000042	.0000148
51					.0000001	.0000004	.0000017	.0000063
52						.0000002	.0000007	.0000026
53						.0000001	.0000002	.0000010
54							.0000001	.0000004
55								.0000001
56								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999973	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999906	.9999967	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
13	.9999705	.9999891	.9999962	.9999987	.9999996	.9999999	1.0000000	1.0000000
14	.9999146	.9999670	.9999877	.9999956	.9999985	.9999998	.9999999	.9999999
15	.9997728	.9999076	.9999639	.9999864	.9999951	.9999983	.9999994	.9999998
16	.9994369	.9997601	.9999016	.9999612	.9999852	.9999946	.9999981	.9999993
17	.9987034	.9994200	.9997505	.9999047	.9999588	.9999842	.9999943	.9999979
18	.9972077	.9986889	.9994065	.9997434	.9998939	.9999570	.9999834	.9999938
19	.9943547	.9972190	.9986047	.9994023	.9997309	.9998903	.9999556	.9999827
20	.9892494	.9944465	.9972476	.9986902	.9994011	.9997367	.9998807	.9999547
21	.9806555	.9895272	.9945633	.9972917	.9987044	.9994045	.9997368	.9999382
22	.9670143	.9813566	.9894018	.9947098	.9973493	.9987264	.9994120	.9997390
23	.9465526	.9682835	.9819670	.9901695	.9948585	.9974186	.9987552	.9994832
24	.9174910	.9488021	.9695664	.9826594	.9905237	.9950305	.9974979	.9988900
25	.8781385	.9211376	.9510293	.9708554	.9833677	.9908939	.9952149	.9975856
26	.8282234	.8838129	.9247015	.9532280	.9721438	.9840863	.9912761	.9954091
27	.7671857	.8359062	.8891835	.9283806	.9553932	.9734261	.9848104	.9916669
28	.6963518	.7778832	.8433062	.8942647	.9315735	.9575203	.9746971	.9855357
29	.6179287	.7088826	.7870233	.8504659	.8992588	.9348789	.9596056	.9759526
30	.5349984	.6326411	.7209832	.7964256	.8573863	.9040956	.9380959	.9641 [illegible]
31	.4511467	.5513855	.6468918	.7326760	.8055075	.8640772	.9087825	.9412239
32	.3699992	.4685006	.5673326	.6607049	.7439805	.8142848	.8705475	.9133828
33	.2947700	.3875058	.4854916	.5828591	.6741026	.7549340	.8227712	.8768051
34	.2278990	.3114187	.4047717	.5021300	.5979827	.6871045	.7655319	.8309791
35	.1706630	.2433928	.3283773	.4217967	.5184259	.6127201	.6997286	.7757976
36	.1241459	.1844919	.2589495	.3450338	.4385803	.5343887	.6270862	.7119911
37	.0873787	.1356289	.1983191	.2745493	.3615785	.4551249	.5500279	.6410949
38	.0595548	.0966528	.1474084	.2123197	.2901747	.3780033	.4714303	.5653521
39	.0392971	.0667415	.1062798	.1594610	.2264734	.3058105	.3943015	.4874989
40	.0250994	.0446449	.0748956	.1162404	.1717652	.2407577	.3214433	.4104676
41	.0155159	.0289234	.0503404	.0822041	.1265162	.1843011	.2551582	.3370613
42	.0092828	.0181454	.0330523	.0563771	.0904538	.1370900	.1970503	.2696581
43	.0053747	.0110224	.0210251	.0374851	.0627479	.0990321	.1479454	.2099959
44	.0030117	.0064827	.0129558	.0241582	.0422204	.0694456	.1079266	.1590668
45	.0016332	.0036914	.0077329	.0150886	.0275475	.0472557	.0764625	.1171251
46	.0008572	.0020351	.0044704	.0091317	.0174257	.0311944	.0525884	.0837911
47	.0004355	.0010962	.0025029	.0053547	.0106851	.0199715	.0351002	.0582151
48	.0002141	.0005614	.0013572	.0030420	.0063503	.0123986	.0227296	.0392652
49	.0001019	.0002809	.0007128	.0016743	.0036575	.0074627	.0142771	.0257030
50	.0000470	.0001361	.0003635	.0008927	.0020414	.0043543	.0086971	.0163251
51	.0000209	.0000638	.0001786	.0004611	.0011041	.0024627	.0051372	.0100584
52	.0000090	.0000290	.0000852	.0002307	.0005786	.0013499	.0029420	.0060107
53	.0000038	.0000128	.0000394	.0001118	.0002938	.0007172	.0016333	.0034832

120 n = 120

x	.25	.26	.27	.28	.29	.30	.31	.32
54	.0000018	.0000054	.0000176	.0000525	.0001445	.0003692	.0000790	.0019572
55	.0000006	.0000022	.0000076	.0000239	.0000689	.0001842	.0004585	.0010662
56	.0000002	.0000009	.0000032	.0000105	.0000318	.0000890	.0002317	.0005630
57	.0000001	.0000003	.0000013	.0000045	.0000142	.0000417	.0001135	.0002802
58		.0000001	.0000005	.0000019	.0000062	.0000189	.0000539	.0001429
59			.0000002	.0000007	.0000026	.0000083	.0000248	.0000687
60			.0000001	.0000003	.0000011	.0000035	.0000110	.0000320
61				.0000001	.0000004	.0000015	.0000048	.0000144
62					.0000002	.0000006	.0000020	.0000063
63							.0000008	.0000027
64							.0000003	.0000011
65							.0000001	.0000004
66								.0000002
67								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999935	.9999977	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
20	.9999823	.9999933	.9999976	.9999992	.9999997	.9999999	1.0000000	1.0000000
21	.9999543	.9999820	.9999932	.9999975	.9999991	.9999997	.9999999	1.0000000
22	.9998886	.9999543	.9999819	.9999931	.9999975	.9999991	.9999997	.9999999
23	.9997431	.9998900	.9999547	.9999821	.9999932	.9999975	.9999991	.9999997
24	.9994377	.9997489	.9998922	.9999553	.9999823	.9999933	.9999975	.9999991
25	.9988298	.9994551	.9997562	.9998951	.9999566	.9999828	.9999934	.9999976
26	.9976001	.9988739	.9994748	.9997647	.9998987	.9999581	.9999833	.9999936
27	.9954109	.9977800	.9989315	.9994967	.9997743	.9999028	.9999598	.9999840
28	.9920628	.9958101	.9978041	.9989718	.9995201	.9997848	.9999074	.9999617
29	.9862584	.9924618	.9960288	.9979911	.9990241	.9995447	.9997960	.9999128
30	.9771808	.9869751	.9928595	.9962412	.9981000	.9990778	.9995702	.9998077
31	.9636385	.9784024	.9876839	.9932553	.9964537	.9982097	.9991332	.9995962
32	.9442623	.9655810	.9795905	.9883792	.9936467	.9966650	.9983193	.9991870
33	.9177154	.9472109	.9674714	.9807507	.9890617	.9940320	.9968739	.9984201
34	.8828572	.9219755	.9500695	.9693081	.9818809	.9897285	.9944094	.9970791
35	.8389197	.8887101	.9260928	.9528382	.9710896	.9829792	.9903777	.9947778
36	.7857451	.8466031	.8943697	.9300744	.9555169	.9728149	.9840441	.9910080
37	.7239065	.7953870	.8540381	.8998413	.9339224	.9581058	.9744830	.9850741
38	.6547589	.7354081	.8047345	.8613329	.9051297	.9376387	.9606052	.9760931
39	.5801697	.6680899	.7467479	.8137978	.8681948	.9102393	.9412255	.9630155
40	.5033328	.5950083	.6811983	.7576967	.8225861	.8749305	.9151740	.9446844
41	.4264971	.5180343	.6095151	.6937940	.7683443	.8311077	.8814459	.9199375
42	.3526543	.4423863	.5343057	.6236569	.7061857	.7786996	.8393700	.8877465
43	.2842435	.3708132	.4581320	.5494494	.6375199	.7182814	.7887706	.8473799
44	.2231225	.3060013	.3857209	.4737310	.5643677	.6511090	.7300884	.7985644
45	.1704390	.2364156	.3136202	.3991973	.4891835	.5790628	.6644316	.7416131
46	.1266163	.1820510	.2498623	.3383896	.4146092	.5044851	.5935367	.6774901
47	.0914237	.1363889	.1938875	.2634504	.3432001	.4299597	.5196352	.6077913
48	.0641325	.0993529	.1464327	.2059378	.2771689	.3580430	.4452439	.5346321
49	.0436895	.0703367	.1075714	.1567375	.2181907	.2910077	.3729105	.4604569
50	.0288944	.0483727	.0768240	.1160720	.1672941	.2306362	.3049574	.3877955
51	.0185466	.0323057	.0533141	.0835904	.1248479	.1780936	.2432648	.3190094
52	.0115512	.0209452	.0359398	.0585127	.0906321	.1336926	.1891277	.2560678
53	.0069792	.0131795	.0235241	.0397949	.0639675	.0979451	.1431999	.2003887
54	.0040901	.0080468	.0149474	.0262063	.0438752	.0696771	.1055257	.1527638
55	.0023245	.0047661	.0092173	.0168584	.0292342	.0481806	.0756403	.1133704
56	.0012809	.0027381	.0055149	.0104945	.0189158	.0323703	.0527118	.0818556
57	.0006843	.0015254	.0032008	.0063396	.0118818	.0211228	.0356966	.0574692
58	.0003544	.0008240	.0018018	.0037154	.0073435	.0133885	.0234821	.0392151
59	.0001770	.0004315	.0009835	.0021120	.0042845	.0082295	.0149996	.0259966
60	.0000865	.0002190	.0005205	.0011643	.0024583	.0049106	.0093007	.0167361
61	.0000400	.0001078	.0002670	.0006223	.0013679	.0028426	.0055963	.0104596
62	.0000186	.0000514	.0001327	.0003224	.0007380	.0015959	.0032668	.0063439
63	.0000082	.0000237	.0000640	.0001619	.0003860	.0008687	.0018495	.0037328
64	.0000035	.0000106	.0000299	.0000788	.0001957	.0004584	.0010153	.0021302
65	.0000015	.0000046	.0000135	.0000371	.0000961	.0002344	.0005403	.0011787
66	.0000006	.0000019	.0000059	.0000170	.0000457	.0001162	.0002706	.0006322
67	.0000002	.0000008	.0000025	.0000075	.0000211	.0000558	.0001392	.0003886
68	.0000001	.0000003	.0000010	.0000032	.0000094	.0000259	.0000674	.0001655
69		.0000001	.0000004	.0000013	.0000041	.0000117	.0000316	.0000807
70			.0000002	.0000005	.0000017	.0000051	.0000143	.0000381
71			.0000001	.0000002	.0000007	.0000021	.0000063	.0000174
72				.0000001	.0000003	.0000009	.0000027	.0000077
73					.0000001	.0000003	.0000011	.0000033
74						.0000001	.0000004	.0000014
75							.0000002	.0000005
76							.0000001	.0000002
77								.0000001

$$I(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 120

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999977	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999939	.9999978	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
28	.9999848	.9999942	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000
29	.9999638	.9999856	.9999945	.9999980	.9999995	.9999998	.9999999	1.0000000
30	.9999174	.9999660	.9999865	.9999949	.9999991	.9999994	.9999998	.9999999
31	.9998197	.9999227	.9999682	.9999875	.9999963	.9999989	.9999994	.9999998
32	.9996225	.9998310	.9999281	.9999706	.9999881	.9999956	.9999984	.9999995
33	.9992415	.9996488	.9998440	.9999336	.9999739	.9999894	.9999960	.9999986
34	.9985354	.9992953	.9996748	.9998561	.9999390	.9999752	.9999904	.9999964
35	.9972798	.9986404	.9993481	.9997003	.9998680	.9999443	.9999775	.9999913
36	.9951358	.9974750	.9987426	.9993996	.9997252	.9998795	.9999494	.9999797
37	.9916181	.9954825	.9976641	.9988417	.9994494	.9997492	.9998906	.9999544
38	.9860683	.9922060	.9958170	.9978465	.9989371	.9994873	.9997723	.9999013
39	.9776447	.9870858	.9927734	.9961386	.9980216	.9990286	.9995431	.9997943
40	.9653370	.9791375	.9879458	.9933171	.9964467	.9981890	.9991158	.9995867
41	.9480174	.9675702	.9805711	.9886279	.9930373	.9967408	.9983484	.9991986
42	.9245333	.9512261	.9697156	.9819454	.9896715	.9943336	.9970806	.9984996
43	.8938378	.9289644	.9543121	.9717740	.9832606	.9904767	.9948058	.9972859
44	.8551433	.8997225	.9332337	.9572771	.9737459	.9845168	.9912431	.9952530
45	.8080877	.8626659	.9054064	.9373439	.9601285	.9756381	.9851142	.9919710
46	.7528615	.8173461	.8699525	.9108929	.9412975	.9628500	.9774335	.9860533
47	.6902895	.7638386	.8263449	.8770076	.9161851	.9450969	.9654609	.9771510
48	.6218282	.7028335	.7745497	.8350888	.8838353	.9212864	.9487444	.9679569
49	.5494747	.6356488	.7151253	.7849982	.8435810	.8904392	.9261995	.9582421
50	.4755946	.5641616	.6492543	.7271678	.7951880	.8518277	.8968025	.9309272
51	.4026913	.4906530	.5786913	.6636455	.7389632	.8051221	.8598296	.9029882
52	.3331557	.4175917	.5056282	.5930627	.6758211	.7505136	.8148038	.8675905
53	.2690369	.3473890	.4324912	.5205168	.6077241	.6887873	.7618204	.8242335
54	.2118693	.2831548	.3617025	.4473843	.5353152	.6213239	.7015380	.7728847
55	.1635789	.2235630	.2954444	.3760898	.4622661	.5500201	.6352105	.7140750
56	.1214757	.1736401	.2354634	.3088693	.3905452	.4771318	.5646281	.6489319
57	.0883219	.1329385	.1829425	.2475649	.3224336	.4050630	.4919767	.5791357
58	.0624535	.0950379	.1384557	.1934818	.2598622	.3361317	.4196380	.5067964
59	.0429275	.0676650	.1020023	.1473247	.2042540	.2723504	.3499584	.4342652
60	.0286686	.0468354	.0731041	.1092143	.1564430	.2152555	.2850251	.3639090
61	.0185947	.0315005	.0509404	.0787714	.1166729	.1658086	.2264831	.2978824
62	.0117090	.0206779	.0344945	.0552441	.0846672	.1243776	.1754195	.2379339
63	.0071555	.0130513	.0226883	.0376528	.0597478	.0907923	.1323278	.1852744
64	.0042484	.0080334	.0144887	.0249280	.0409773	.0644532	.0971478	.1405235
65	.0024394	.0047972	.0089796	.0160235	.0272994	.0444702	.0693616	.1037331
66	.0013600	.0027783	.0053990	.0099959	.0176579	.0298046	.0481333	.0744749
67	.0007349	.0015600	.0031481	.0060492	.0110842	.0193939	.0324457	.0519686
68	.0003848	.0008489	.0017795	.0035499	.0067493	.0122462	.0212333	.0352345
69	.0001952	.0004476	.0009748	.0020194	.0039849	.0075006	.0134835	.0231779
70	.0000959	.0002266	.0005173	.0011131	.0022804	.0044540	.0083043	.0147976
71	.0000456	.0001130	.0002658	.0005943	.0012643	.0025632	.0049581	.0091617
72	.0000210	.0000541	.0001323	.0003072	.0006789	.0014289	.0028683	.0054980
73	.0000093	.0000250	.0000637	.0001537	.0003529	.0007713	.0016078	.0031965
74	.0000040	.0000112	.0000297	.0000744	.0001775	.0004029	.0008718	.0017995
75	.0000017	.0000049	.0000134	.0000348	.0000864	.0002037	.0004576	.0009805
76	.0000007	.0000020	.0000058	.0000158	.0000406	.0000995	.0002323	.0005169
77	.0000003	.0000008	.0000024	.0000069	.0000185	.0000470	.0001140	.0002634
78	.0000001	.0000003	.0000010	.0000029	.0000081	.0000215	.0000541	.0001298
79		.0000001	.0000004	.0000012	.0000034	.0000095	.0000248	.0000617
80			.0000001	.0000005	.0000014	.0000040	.0000109	.0000284
81			.0000001	.0000003	.0000006	.0000017	.0000047	.0000126
82				.0000001	.0000002	.0000007	.0000019	.0000054
83					.0000001	.0000002	.0000008	.0000022
84						.0000001	.0000003	.0000009
85							.0000001	.0000003
86								.0000001

r	.49	.50
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 120

x	.49	.50
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	.9999999	1.0000000
32	.9999998	.9999999
33	.9999995	.9999998
34	.9999987	.9999996
35	.9999968	.9999989
36	.9999928	.9999971
37	.9999818	.9999931
38	.9999501	.9999838
39	.9999114	.9999635
40	.9998152	.9999210
41	.9996379	.9998348
42	.9993768	.9996666
43	.9986433	.9993503
44	.9975366	.9987766
45	.9956773	.9977725
46	.9926605	.9960767
47	.9879546	.9933110
48	.9807855	.9889586
49	.9703395	.9823302
50	.9555980	.9726101
51	.9354719	.9587963
52	.9089391	.9394361
53	.8751127	.9146774
54	.8334147	.8843983
55	.7837073	.8483483
56	.7263975	.7944884
57	.6624859	.7305045
58	.5935395	.6758700
59	.5215865	.6078359
60	.4489399	.5363425
61	.3779789	.4636575
62	.3109184	.3921641
63	.2496054	.3241300
64	.1953720	.2614955
65	.1489646	.2057116
66	.1105500	.1576517
67	.0797916	.1176017
68	.0559701	.0853226
69	.0381438	.0601639
70	.0252896	.0412037
71	.0161900	.0273899
72	.0100737	.0176618
73	.0060745	.0110414
74	.0035480	.0066888
75	.0020063	.0039233
76	.0010977	.0022275
77	.0005809	.0012234
78	.0002972	.0006497
79	.0001468	.0003334
80	.0000701	.0001652
81	.0000323	.0000790
82	.0000143	.0000365
83	.0000061	.0000162
84	.0000025	.0000069
85	.0000010	.0000029
86	.0000004	.0000011
87	.0000001	.0000004
88		.0000002
89		.0000001

$$B(r;n,p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 121

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.7036134	.9139329	.9749170	.9908415	.9979837	.9994396	.9998464	.9999585
2	.3413631	.6900718	.8810496	.9567510	.9851430	.9951117	.9984473	.9995218
3	.1381175	.4366100	.7068627	.8665347	.9445935	.9785367	.9921890	.9972419
4	.0538514	.2848224	.4931695	.7174006	.8599375	.9365702	.9732645	.9919788
5	.0076393	.0963564	.2978019	.5341022	.7344979	.8578483	.9113773	.9682081
6	.0014437	.0352938	.1571017	.3553863	.5666197	.7395195	.8576018	.9281652
7	.0008338	.0112011	.0727325	.2114207	.4019015	.5938671	.7508438	.8591655
8	.0000330	.0031234	.0298645	.1128729	.2594760	.4411313	.6174893	.7605946
9	.0000041	.0007742	.0109717	.0543601	.1526569	.3032068	.4750994	.6384523
10	.0000005	.0001723	.0036353	.0237492	.0820688	.1900701	.3405351	.5050989
11		.0000347	.0010940	.0094641	.0404590	.1112768	.2270958	.3752843
12		.0000064	.0003009	.0034579	.0183600	.0600097	.1409352	.2612638
13		.0000011	.0000761	.0011639	.0076982	.0300133	.0814875	.1704846
14		.0000002	.0000178	.0003624	.0029932	.0139596	.0439701	.1041945
15			.0000038	.0001048	.0010809	.0060548	.0221057	.0597668
16			.0000008	.0000283	.0003657	.0024555	.0104694	.0332088
17			.0000001	.0000071	.0001156	.0009335	.0046569	.0163329
18				.0000017	.0000343	.0003335	.0019454	.0078063
19				.0000004	.0000096	.0001128	.0007662	.0035824
20				.0000001	.0000025	.0000356	.0002850	.0015029
21					.0000006	.0000107	.0001003	.0006074
22					.0000001	.0000030	.0000338	.0002528
23						.0000008	.0000106	.0000968
24						.0000002	.0000032	.0000394
25						.0000001	.0000009	.0000097
26							.0000003	.0000030
27							.0000001	.0000009
28								.0000001
29								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999889	.9999971	.9999992	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
2	.9998565	.9999580	.9999880	.9999966	.9999991	.9999998	.9999999	1.0000000
3	.9990706	.9996975	.9999046	.9999708	.9999913	.9999975	.9999993	.9999998
4	.9959876	.9989494	.9996958	.9999309	.9999451	.9999847	.9999964	.9999994
5	.9869927	.9947862	.9986051	.9992680	.9997415	.9999119	.9999710	.9999907
6	.9661759	.9850019	.9936938	.9974721	.9990298	.9996422	.9998729	.9999564
7	.9363723	.9639837	.9839820	.9927373	.9969735	.9989935	.9996384	.9998301
8	.8916993	.9256171	.9624742	.9831501	.9919256	.9965235	.9985666	.9994347
9	.7705530	.8448701	.9256330	.9611584	.9811772	.9912576	.9961297	.9983616
10	.6573714	.7801243	.8684624	.9262287	.9610180	.9804945	.9907259	.9957953
11	.5380009	.6746687	.7893889	.8783317	.9274641	.9608707	.9800454	.9903804
12	.4068809	.5544179	.6906209	.7981476	.8763778	.9286345	.9610263	.9797972
13	.2934480	.4359834	.5767986	.7034626	.8066773	.8805300	.9302600	.9614234
14	.1993840	.3237838	.4629109	.5994676	.7191514	.8148705	.8847370	.9320791
15	.1276178	.2276127	.3524205	.4879664	.6186900	.7324144	.8237645	.8889610
16	.0769871	.1513888	.2550069	.3795061	.5113949	.6366630	.7447521	.8303752
17	.0439128	.0952784	.1752426	.2815822	.4051789	.5313063	.6535464	.7564454
18	.0235480	.0567718	.1143519	.1999955	.3071500	.4295645	.5541354	.6694492
19	.0119681	.0320515	.0708594	.1339746	.2228171	.3359035	.4627751	.5737104
20	.0057394	.0171614	.0417353	.0859088	.1539609	.2457180	.3558083	.4749109
21	.0026880	.0087238	.0233710	.0524813	.1017164	.1741640	.2685379	.3788963
22	.0011385	.0043147	.0124546	.0305560	.0641700	.1181413	.1944682	.2909374
23	.0004680	.0019374	.0063218	.0169693	.0386484	.0766866	.1350540	.2147825
24	.0001838	.0008403	.0030592	.0089932	.0222662	.0476390	.0899235	.1523449
25	.0000686	.0003542	.0014126	.0045520	.0122584	.0283301	.0574030	.1037824
26	.0000845	.0001411	.0006230	.0022022	.0064562	.0161344	.0351360	.0678923
27	.0000083	.0000537	.0002626	.0010191	.0032550	.0088037	.0206272	.0426510
28	.0000087	.0000196	.0001059	.0004515	.0015719	.0046049	.0116185	.0257344
29	.0000008	.0000068	.0000409	.0001916	.0007276	.0023101	.0062814	.0149170
30	.0000003	.0000023	.0000151	.0000779	.0003210	.0011122	.0032610	.0083093
31	.0000001	.0000007	.0000054	.0000304	.0001376	.0005141	.0016264	.0044495
32		.0000008	.0000018	.0000114	.0000563	.0002283	.0007797	.0022914
33		.0000001	.0000006	.0000041	.0000221	.0000975	.0003594	.0011353
34			.0000002	.0000014	.0000084	.0000400	.0001594	.0005414
35			.0000001	.0000005	.0000030	.0000158	.0000680	.0002486
36				.0000002	.0000011	.0000060	.0000280	.0001099
37					.0000004	.0000022	.0000111	.0000469
38					.0000001	.0000008	.0000042	.0000192
39						.0000003	.0000016	.0000076
40						.0000001	.0000006	.0000029
41							.0000002	.0000011
42							.0000001	.0000004
43								.0000001

N	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999971	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999856	.9999554	.9999886	.9999976	.9999999	1.0000000	1.0000000	1.0000000
7	.9999397	.9999793	.9999931	.9999978	.9999993	.9999998	.9999999	1.0000000
8	.9997854	.9999815	.9999723	.9999906	.9999969	.9999990	.9999997	.9999999
9	.9993351	.9997407	.9999027	.9999648	.9999877	.9999958	.9999986	.9999996
10	.9981770	.9992423	.9996975	.9998838	.9999570	.9999846	.9999947	.9999982
11	.9955803	.9980170	.9991586	.9996871	.9998656	.9999422	.9999815	.9999935
12	.9900295	.9953049	.9978829	.9990852	.9996204	.9998485	.9999418	.9999784
13	.9797205	.9884416	.9951398	.9977745	.9990239	.9995881	.9998330	.9999348
14	.9620166	.9737899	.9897450	.9950272	.9976913	.9988732	.9995604	.9998194
15	.9340437	.9527486	.9799829	.9897388	.9949607	.9976321	.9989328	.9995381
16	.8931741	.9161157	.9636484	.9802000	.9897828	.9949359	.9975952	.9989045
17	.8377171	.8573558	.9388645	.9646304	.9806642	.9898977	.9949483	.9975790

$$I_{n,m}(x) = \sum_{k=0}^{\infty} \frac{(-1)^k x^{2k+n}}{k!\,(k+n)!\,2^{2k+n}}$$

N	.17	.18	.19	.20	.21	.22	.23	.24
18	.7675605	.8440033	.9014082	.9404656	.9656929	.9811308	.9900649	.9949537
19	.6845378	.7781522	.8516459	.9055608	.9426990	.9660178	.9816369	.9907766
20	.5923535	.6988382	.7882663	.8582857	.9095638	.9449483	.9679898	.9832012
21	.4960604	.6100450	.7124455	.7979417	.8646426	.9134898	.9472000	.9691957
22	.4011036	.5163020	.6289075	.7254213	.8078116	.8708153	.9173332	.9494430
23	.3138953	.4287667	.5357053	.6430118	.7378186	.8161044	.8767821	.9210898
24	.2350358	.3543893	.4436220	.5543316	.6584196	.7496899	.8246449	.8843503
25	.1699210	.2951729	.3554288	.4630046	.5728365	.6731845	.7610533	.8188545
26	.1181748	.1877017	.2751507	.3759912	.4833479	.5894679	.6873531	.7419641
27	.0790405	.1330195	.2056273	.2949362	.3961030	.5033837	.6060694	.6600664
28	.0500301	.0907038	.1482474	.2233643	.3145048	.4157619	.5206414	.5820800
29	.0304463	.0596588	.1030680	.1637953	.2416843	.3338355	.4349757	.5104407
30	.0187090	.0377483	.0690720	.1158193	.1796078	.2597324	.3589161	.4537548
31	.0107085	.0229988	.0446316	.0790376	.1290036	.1956364	.2977481	.3717355
32	.0058983	.0134946	.0277857	.0520447	.0895163	.1425676	.2118383	.2957040
33	.0031273	.0076269	.0166787	.0330653	.0599945	.1004698	.1564677	.2281760
34	.0015967	.0041531	.0096528	.0202686	.0388249	.0684466	.1110617	.1706642
35	.0007859	.0021795	.0053063	.0119883	.0242609	.0450693	.0773765	.1236576
36	.0003781	.0011086	.0028989	.0068427	.0146466	.0286794	.0517716	.0867592
37	.0001700	.0005379	.0015052	.0037697	.0085367	.0176361	.0335009	.0589236
38	.0000749	.0002531	.0007541	.0020048	.0048055	.0104006	.0209635	.0387899
39	.0000318	.0001140	.0003646	.0010894	.0026130	.0060192	.0126858	.0246334
40	.0000130	.0000503	.0001702	.0005105	.0013787	.0033412	.0074837	.0151597
41	.0000058	.0000213	.0000767	.0002445	.0006968	.0017920	.0042002	.0090867
42	.0000020	.0000087	.0000334	.0001132	.0003418	.0008900	.0023906	.0052005
43	.0000007	.0000034	.0000141	.0000506	.0001681	.0004664	.0012167	.0028899
44	.0000003	.0000013	.0000057	.0000219	.0000743	.0002262	.0006230	.0015637
45	.0000001	.0000005	.0000022	.0000091	.0000309	.0001061	.0003086	.0008168
46		.0000002	.0000009	.0000037	.0000141	.0000481	.0001479	.0004183
47		.0000001	.0000003	.0000014	.0000059	.0000211	.0000686	.0002016
48			.0000001	.0000005	.0000023	.0000090	.0000308	.0000954
49				.0000002	.0000009	.0000037	.0000134	.0000437
50				.0000001	.0000003	.0000015	.0000056	.0000194
51					.0000001	.0000006	.0000021	.0000083
52						.0000002	.0000009	.0000035
53						.0000001	.0000003	.0000014
54							.0000001	.0000005
55								.0000002
56								.0000001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999921	.9999973	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
13	.9999755	.9999911	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000
14	.9999305	.9999738	.9999900	.9999965	.9999988	.9999996	.9999999	1.0000000
15	.9998078	.9999231	.9999703	.9999890	.9999961	.9999986	.9999995	.9999998
16	.9995208	.9997984	.9999184	.9999663	.9999881	.9999957	.9999985	.9999995
17	.9988068	.9995084	.9997913	.9999148	.9999665	.9999871	.9999954	.9999984
18	.9975816	.9990789	.9995008	.9997864	.9999181	.9999695	.9999867	.9999951
19	.9950680	.9976011	.9988002	.9994979	.9997830	.9999103	.9999648	.9999863
20	.9905258	.9951673	.9976356	.9988896	.9994991	.9997820	.9999094	.9999637
21	.9828040	.9908062	.9952881	.9976031	.9989064	.9995041	.9997839	.9999091
22	.9704246	.9834366	.9911171	.9954269	.9977493	.9989298	.9995127	.9997867
23	.9516680	.9716669	.9840915	.9914305	.9955808	.9978109	.9989586	.9995943
24	.9247564	.9538627	.9729146	.9847620	.9917808	.9957469	.9978876	.9989926
25	.8881964	.9288104	.9560343	.9741605	.9854429	.9921349	.9959226	.9979710
26	.8407589	.8935174	.9318100	.9581037	.9753987	.9861386	.9934971	.9961056
27	.7813451	.8483545	.8987881	.9351939	.9602509	.9766341	.9886144	.9928444
28	.7100603	.7923226	.8556763	.9037641	.9384812	.9622920	.9798329	.9874977
29	.6275345	.7266668	.8022197	.8627307	.9086301	.9416713	.9642840	.9790198
30	.5357310	.6524639	.7388141	.8115568	.8695293	.9133306	.9417639	.9663240
31	.4371006	.5725130	.6668865	.7505271	.8205524	.8760827	.9178696	.9477589
32	.3360866	.4900507	.5888136	.6808574	.7618200	.8292225	.8824004	.9232511
33	.2375778	.4085644	.5075887	.6046559	.6943605	.7727192	.8375818	.8884908
34	.1466167	.3311403	.4265661	.5247343	.6200575	.7074534	.7832760	.8456434
35	.0851312	.2611315	.3490038	.4442900	.5414474	.6350354	.7201276	.7934557
36	.0438249	.1998061	.2776950	.3665074	.4617359	.5578081	.6496054	.7334092
37	.0165705	.1481313	.2146003	.2942850	.3839048	.4780040	.5739160	.6677817
38	.0065108	.1067886	.1611543	.2297440	.3100818	.4011398	.4957955	.5985878
39	.0043615	.0745104	.1173045	.1742915	.2429461	.3274683	.4182114	.5234219
40	.0084408	.0503900	.0829314	.1284421	.1846301	.2603735	.3440293	.4451176
41	.0179118	.0330110	.0568083	.0917343	.1356364	.2012381	.2757065	.3685513
42	.0180410	.0209477	.0377201	.0636087	.1009119	.1515534	.2150437	.2993278
43	.0064317	.0128744	.0242784	.0427749	.0707887	.1104495	.1631679	.2290874
44	.0036024	.0076631	.0151345	.0278898	.0481734	.0783216	.1203324	.1733641
45	.0019778	.0044172	.0091431	.0176281	.0310036	.0539127	.0862164	.1305465
46	.0010513	.0024657	.0055512	.0107996	.0193610	.0360128	.0599893	.0944580
47	.0005400	.0013329	.0032341	.0064122	.0112639	.0211384	.0405215	.0663994
48	.0002695	.0006978	.0018666	.0036896	.0064074	.0121705	.0265645	.0453992
49	.0001300	.0003518	.0009868	.0020572	.0035784	.0068434	.0169974	.0300489
50	.0000607	.0001737	.0004571	.0011115	.0019515	.0037868	.0104269	.0193860
51	.0000275	.0000826	.0002082	.0005819	.0010359	.0020300	.0062408	.0120637
52	.0000120	.0000381	.0001104	.0002992	.0005310	.0010838	.0036325	.0073060
53	.0000051	.0000170	.0000517	.0001451	.0002644	.0005670	.0020190	.0042920

$$I(n,x) = \sum_{k=0}^{n} \binom{n}{k} x^k \int_0^x e^{-t} t^{n-k} \, dt$$

x	.35	.36	.37	.38	.39	.40	.41	.42
54	.0000021	.0000073	.0000235	.0000691	.0001878	.0004716	.0011128	.0024455
55	.0000008	.0000031	.0000103	.0000319	.0000908	.0002399	.0005888	.0013515
56	.0000003	.0000012	.0000044	.0000141	.0000426	.0001176	.0002930	.0007240
57	.0000001	.0000005	.0000018	.0000062	.0000193	.0000559	.0001450	.0003761
58		.0000002	.0000007	.0000026	.0000085	.0000256	.0000714	.0001894
59		.0000001	.0000003	.0000011	.0000036	.0000115	.0000350	.0000955
60			.0000001	.0000004	.0000015	.0000050	.0000167	.0000474
61				.0000002	.0000006	.0000021	.0000067	.0000201
62				.0000001	.0000002	.0000008	.0000029	.0000089
63					.0000001	.0000003	.0000010	.0000038
64						.0000001	.0000003	.0000014
65							.0000001	.0000006
66							.0000001	.0000003
67								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999949	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
20	.9999860	.9999945	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000
21	.9999635	.9999859	.9999947	.9999981	.9999993	.9999998	.9999999	1.0000000
22	.9999103	.9999637	.9999859	.9999947	.9999981	.9999994	.9999998	.9999999
23	.9997911	.9999119	.9999640	.9999860	.9999947	.9999981	.9999993	.9999998
24	.9995385	.9997960	.9999141	.9999640	.9999860	.9999947	.9999981	.9999994
25	.9990304	.9995550	.9998038	.9999169	.9999662	.9999860	.9999950	.9999983
26	.9980595	.9990715	.9995733	.9998117	.9999201	.9999674	.9999873	.9999959
27	.9962937	.9981520	.9991152	.9995332	.9998204	.9999538	.9999600	.9999879
28	.9932135	.9964858	.9982478	.9991603	.9996142	.9999097	.9999278	.9999706
29	.9881739	.9936086	.9966782	.9984443	.9992076	.9998304	.9998603	.9999320
30	.9801817	.9888404	.9934713	.9968419	.9984439	.9996553	.9996585	.9998495
31	.9681101	.9813151	.9879947	.9934302	.9970639	.9993526	.9993010	.9996808
32	.9506564	.9699402	.9794226	.9881346	.9946853	.9988364	.9986364	.9993507
33	.9264786	.9534567	.9671131	.9803139	.9907582	.9980335	.9974376	.9987117
34	.8943617	.9305554	.9501609	.9693874	.9848378	.9965706	.9953706	.9976187
35	.8534191	.9000203	.9284847	.9548673	.9758024	.9935439	.9919501	.9956903
36	.8039907	.8609195	.8954788	.9366694	.9614758	.9876771	.9865142	.9925159
37	.7443133	.8138004	.8601542	.9107353	.9419143	.9761955	.9738110	.9874477
38	.6775776	.7598537	.8219907	.8751319	.9151210	.9554162	.9566174	.9794855
39	.6049181	.6991053	.7820432	.8301744	.8810607	.9206511	.9187834	.9682465
40	.5287550	.6319088	.7040757	.7778931	.8394613	.8683478	.8625441	.9528169
41	.4518589	.5588866	.6245692	.7187990	.7904138	.8047601	.7945599	.9298363
42	.3770284	.4804126	.5460290	.6538063	.7351844	.7306147	.7155776	.9006829
43	.3068190	.3974320	.4694928	.5761641	.6729863	.6412403	.6085044	.8653265
44	.2439284	.3109467	.3969706	.5009908	.6054340	.5466350	.4952744	.8180906
45	.1878251	.2276698	.3301506	.4260398	.5340016	.4560377	.3849516	.7643936
46	.1410700	.1605149	.2721775	.3538804	.4622017	.3788346	.2811857	.7031393
47	.1030173	.1119140	.2214787	.2868285	.3969214	.3054568	.1956708	.6356708
48	.0731186	.0779452	.1780419	.2266423	.3401005	.2474255	.1343958	.5638958
49	.0504157	.0532023	.1411728	.1744496	.2909187	.2016411	.0901205	.4901870
50	.0337760	.0355405	.1087856	.1307116	.2491359	.1653774	.0591591	.4168601
51	.0219613	.0237645	.0815426	.0952838	.2145530	.1360598	.0373249	.3465938
52	.0138598	.0154078	.0620201	.0675407	.1859819	.1130490	.0210410	.2812444
53	.0084880	.0095190	.0478692	.0465333	.1627834	.0951117	.0111617	.2236503
54	.0050735	.0057919	.0379492	.0311494	.1443094	.0804189	.0058186	.1718138
55	.0029671	.0035816	.0312289	.0202524	.1296514	.0687956	.0029877	.1291877
56	.0016253	.0021376	.0268107	.0127855	.1183316	.0596783	.0016539	.0944615
57	.0008812	.0012977	.0240107	.0077354	.1098444	.0526396	.0009324	.0677218
58	.0004633	.0007635	.0222914	.0046601	.1037597	.0471638	.0005458	.0475168
59	.0002361	.0004649	.0213692	.0027892	.0997793	.0429458	.0003178	.0327840
60	.0001167	.0002913	.0208835	.0015055	.0973340	.0396178	.0001778	.0220403
61	.0000559	.0001456	.0203557	.0008174	.0957714	.0369285	.0001410	.0129702
62	.0000259	.0000705	.0201797	.0004304	.0949711	.0350696	.0000753	.0079909
63	.0000117	.0000331	.0200880	.0002197	.0945163	.0341450	.0000423	.0047772
64	.0000051	.0000151	.0200418	.0001087	.0942661	.0336143	.0000233	.0027713
65	.0000021	.0000066	.0200199	.0000521	.0941329	.0333195	.0000255	.0015593
66	.0000009	.0000028	.0000086	.0000243	.0000644	.0001611	.0000806	.0008506
67	.0000003	.0000012	.0000037	.0000109	.0000302	.0000787	.0000936	.0004500
68	.0000001	.0000005	.0000015	.0000048	.0000137	.0000373	.0000954	.0002307
69		.0000002	.0000006	.0000020	.0000060	.0000171	.0000455	.0001146
70		.0000001	.0000003	.0000008	.0000026	.0000076	.0000210	.0000551
71			.0000301	.0000003	.0000011	.0000031	.0000094	.0000257
72				.0000001	.0000004	.0000014	.0000041	.0000116
73					.0000002	.0000005	.0000017	.0000051
74					.0000001	.0000002	.0000007	.0000021
75						.0000001	.0000003	.0000009
76							.0000001	.0000003
77								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999994	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999954	.9999984	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
28	.9999885	.9999957	.9999985	.9999995	.9999998	.9999999	1.0000000	1.0000000
29	.9999724	.9999895	.9999960	.9999988	.9999997	.9999999	.9999999	1.0000000
30	.9999364	.9999743	.9999907	.9999971	.9999993	.9999999	.9999999	1.0000000
31	.9998597	.9999409	.9999821	.9999941	.9999966	.9999988	.9999996	.9999999
32	.9997034	.9998709	.9999544	.9999854	.9999915	.9999969	.9999989	.9999996
33	.9994027	.9997257	.9998802	.9999638	.9999789	.9999923	.9999972	.9999990
34	.9988249	.9994418	.9997478	.9999302	.9999518	.9999817	.9999930	.9999975
35	.9977945	.9988155	.9994088	.9998007	.9998809	.9999585	.9999835	.9999937
36	.9960148	.9975845	.9987050	.9995319	.9997084	.9999091	.9999686	.9999858
37	.9931609	.9956329	.9974838	.9990127	.9995735	.9998098	.9999163	.9999665
38	.9884437	.9925586	.9948111	.9980844	.9991678	.9996138	.9998379	.9999368
39	.9811984	.9870810	.9894021	.9961901	.9984116	.9992448	.9996508	.9998457
40	.9703891	.9781508	.9800217	.9924505	.9971554	.9985752	.9993166	.9996064
41	.9551184	.9637484	.9681422	.9860011	.9951115	.9974078	.9987091	.9992849
42	.9341610	.9438056	.9524855	.9760737	.9917361	.9954660	.9976447	.9986351
43	.9084220	.9190143	.9309356	.9617824	.9864455	.9923509	.9958460	.9975605
44	.8791087	.8912041	.9043291	.9424555	.9786175	.9875503	.9929176	.9956298
45	.8477805	.8618277	.8747151	.9174114	.9675510	.9797191	.9883138	.9919467
46	.8155042	.8326804	.8463939	.8867611	.9497608	.9687898	.9813055	.9853098
47	.7839441	.8061110	.8208071	.8511911	.9237467	.9532631	.9710081	.9753481
48	.7540873	.7829552	.7986316	.8119357	.8898247	.9318239	.9566018	.9633301
49	.7271394	.7643664	.7808728	.7707501	.8516349	.9046209	.9367956	.9497058
50	.7038815	.7504192	.7677598	.7314151	.8109452	.8695890	.9106297	.9411581
51	.6839816	.7391866	.7582334	.6931551	.7685644	.8266067	.8772163	.9163989
52	.6671653	.7302774	.7513702	.6581721	.7269361	.7756335	.8359656	.8845814
53	.6531256	.7236741	.7465170	.6265170	.6901211	.7171013	.7867553	.8450440
54	.6416988	.7185596	.7432410	.5976367	.6583571	.6633571	.7298707	.7975331
55	.6327087	.7148172	.7410154	.5711382	.6320199	.6068844	.6663844	.7433036
56	.6258277	.7123553	.7396454	.5466196	.6106604	.5490010	.6002006	.6832006
57	.6209153	.7107151	.7388539	.5237538	.5938146	.4908330	.5261529	.6126379
58	.6178596	.7096541	.7384774	.5021194	.5807401	.4536378	.4536378	.5415193
59	.6165911	.7091636	.7383179	.4813933	.5707078	.4016098	.3887078	.4690803
60	.6165147	.7090838	.7383119	.4612888	.5630429	.3415192	.3155430	.3976000
61	.6175850	.7092411	.7384708	.4414611	.5577695	.2885545	.2519970	.3295751
62	.6197521	.7096654	.7388166	.4216966	.5548698	.2434358	.1994194	.2667091
63	.6230284	.7103124	.7393743	.4017920	.5541615	.2068415	.1595009	.2105509
64	.6273568	.7111939	.7401437	.3815439	.5553241	.1785691	.1336831	.1620039
65	.6327286	.7122561	.7411480	.3607445	.5582624	.1583829	.1234209	.1213935
66	.6391026	.7135260	.7423360	.3391956	.5631500	.1465500	.1258106	.0885180
67	.6464913	.7150717	.7437160	.3167987	.5701424	.1429828	.1393188	.0627716
68	.6549204	.7169117	.7453008	.2935444	.5793700	.1455341	.1652031	.0432617
69	.6643789	.7190161	.7471200	.2694284	.5909269	.1546936	.2171259	.0289603
70	.6749566	.7213964	.7491719	.2445119	.6050474	.1708554	.2107385	.0188002
71	.6866062	.7241515	.7514844	.2188744	.6217215	.1943526	.2665308	.0118669
72	.6993311	.7272788	.7541077	.1926227	.6409423	.2251508	.3013505	.0073556
73	.7131141	.7308172	.7570813	.1658513	.6624926	.2610738	.3731999	.0043018
74	.7280062	.7347170	.7604443	.1386554	.6862564	.3005724	.4612174	.0024701
75	.7440032	.7390324	.7642324	.1111285	.7121274	.3462951	.5646525	.0013737
76	.7611011	.7438019	.7684691	.0833042	.7400612	.3981474	.6833382	.0007394
77	.7793004	.7490311	.7732059	.0552159	.7700204	.4560712	.8171696	.0003851
78	.7986002	.7548005	.7784016	.0270047	.8020138	.5200335	.9660820	.0001939
79	.8190001	.7611002	.7841206	.0000000	.8360355	.5900150	1.1300385	.0000944
80		.7680001	.7904001	.9730016	.8721036	.6660065	1.3090174	.0000444
81			.7973001	.9460041	.9102369	.7480027	1.5030076	.0000209
82				.9190081	.9504904	.8360311	1.7120038	.0000098
83					.9927511	.9300004	1.9360013	.0000037
84						.9300002	1.9750005	.0000015
85						.9900001	1.9900002	.0000006
86							1.9990001	.0000002
87								.0000001

N	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000	[illegible]

$$P(o,n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 121

x	.49	.50
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	.9999999	1.0000000
33	.9999997	.9999999
34	.9999991	.9999997
35	.9999977	.9999992
36	.9999944	.9999980
37	.9999869	.9999951
38	.9999702	.9999884
39	.9999348	.9999737
40	.9998623	.9999423
41	.9997197	.9998779
42	.9994488	.9997507
43	.9989532	.9995085
44	.9980784	.9990635
45	.9965884	.9982745
46	.9941387	.9969246
47	.9902505	.9946943
48	.9842886	.9911352
49	.9754580	.9856484
50	.9628183	.9776741
51	.9453308	.9657038
52	.9219402	.9493162
53	.8916876	.9278567
54	.8539467	.8995379
55	.8080639	.8635733
56	.7544793	.8183184
57	.6938086	.7663964
58	.6273238	.7071672
59	.5568435	.6416529
60	.4845367	.5720892
61	.4127498	.5000000
62	.3437781	.4279108
63	.2796488	.3581471
64	.2219464	.2928128
65	.1717042	.2336036
66	.1293736	.1816816
67	.0948651	.1376867
68	.0676482	.1014681
69	.0468823	.0727433
70	.0315573	.0506838
71	.0206194	.0342968
72	.0130707	.0225859
73	.0080341	.0143516
74	.0047860	.0088648
75	.0027617	.0053057
76	.0015429	.0030754
77	.0008341	.0017255
78	.0004362	.0009365
79	.0002205	.0004915
80	.0001077	.0002493
81	.0000508	.0001221
82	.0000231	.0000577
83	.0000102	.0000263
84	.0000043	.0000116
85	.0000018	.0000049
86	.0000007	.0000020
87	.0000003	.0000008
88	.0000001	.0000003
89		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 122$$

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7065773	.9149682	.9756695	.9931279	.9980845	.9994733	.9998571	.9999618
2	.3449856	.7032565	.8838656	.9581946	.9857850	.9953714	.9985453	.9995562
3	.1840130	.4418573	.7120883	.9701337	.9466210	.9795312	.9945715	.9974243
4	.0947311	.2844701	.4995803	.7233655	.8641703	.9330882	.9745850	.9900978
5	.0479014	.0989137	.3040510	.5414342	.7350699	.8622895	.9343094	.9708817
6	.0015057	.0365151	.1613347	.3625350	.5747136	.7466012	.8887660	.9314486
7	.0002459	.0116829	.0752636	.2171794	.4101374	.6026063	.7577509	.8646855
8	.0000350	.0032849	.0311506	.1168148	.2665973	.4502955	.6267021	.7604802
9	.0000044	.0008212	.0115385	.0567006	.1579978	.3105422	.4850667	.6482237
10	.0000005	.0001843	.0038554	.0249736	.0855982	.1975503	.3499546	.5157672
11	.0000001	.0000375	.0011703	.0100355	.0425394	.1160518	.2330366	.3856143
12		.0000069	.0003247	.0036982	.0194649	.0630857	.1469665	.2703800
13		.0000012	.0000828	.0012556	.0082313	.0318131	.0856489	.1776917
14		.0000002	.0000195	.0003945	.0032284	.0149229	.0465963	.1094929
15			.0000043	.0001151	.0011784	.0065291	.0237106	.0633210
16			.0000009	.0000313	.0004015	.0026715	.0113081	.0344134
17			.0000002	.0000080	.0001281	.0010248	.0053652	.0176030
18				.0000019	.0000384	.0003695	.0021358	.0084884
19				.0000004	.0000108	.0001255	.0006487	.0038651
20				.0000001	.0000029	.0000402	.0003187	.0016645
21					.0000007	.0000122	.0001133	.0006790
22					.0000002	.0000035	.0000382	.0002628
23						.0000010	.0000128	.0000966
24						.0000002	.0000037	.0000338
25						.0000001	.0000011	.0000113
26							.0000003	.0000036
27							.0000001	.0000011
28								.0000003
29								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999899	.9999974	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
2	.9998684	.9999619	.9999892	.9999970	.9999992	.9999998	1.0000000	1.0000000
3	.9991414	.9997236	.9999138	.9999739	.9999923	.9999978	.9999994	.9999998
4	.9962651	.9986642	.9995407	.9998477	.9999511	.9999848	.9999954	.9999987
5	.9878023	.9951625	.9981691	.9993356	.9997680	.9999218	.9999745	.9999920
6	.9680494	.9859803	.9941681	.9976876	.9991223	.9996800	.9998876	.9999619
7	.9299546	.9660855	.9845252	.9933054	.9972408	.9989133	.9996886	.9998503
8	.8675199	.9294538	.9647751	.9834029	.9925819	.9958413	.9987140	.9994980
9	.7787563	.8709448	.9296855	.9639918	.9835745	.9919948	.9964955	.9985333
10	.6675577	.7885988	.8747512	.9304635	.9656335	.9820013	.9915365	.9962059
11	.5438842	.6852088	.7980283	.8787993	.9316513	.9636180	.9816475	.9911964
12	.4181417	.5682424	.7014781	.8070673	.8829951	.9331475	.9638798	.9814809
13	.3036570	.4480269	.5910964	.7165873	.8157384	.8872647	.9348749	.9643638
14	.2078498	.3350038	.4756582	.6121870	.7307038	.8240629	.8915654	.9367742
15	.1340767	.2372298	.3645744	.5013465	.6317759	.7439583	.8320604	.8958599
16	.0815438	.1590106	.2657224	.3925214	.5253433	.6500682	.7564540	.8397489
17	.0467985	.1008894	.1840167	.2932802	.4189870	.5478536	.6672273	.7682742
18	.0253719	.0606224	.1210499	.2088987	.3198938	.4441009	.5690470	.6833854
19	.0130103	.0345235	.0756524	.1417771	.2335194	.3455760	.4679791	.5890646
20	.0063184	.0186504	.0449401	.0916767	.1628732	.2577840	.3703532	.4907850
21	.0029099	.0095675	.0253911	.0564926	.1085082	.1841816	.2816284	.3942586
22	.0012725	.0046656	.0136554	.0331888	.0690511	.1259844	.2055786	.3050108
23	.0005291	.0021652	.0069965	.0185999	.0419836	.0814902	.1439661	.2269672
24	.0002094	.0009572	.0034181	.0099503	.0243965	.0517057	.0966931	.1623349
25	.0000790	.0004036	.0015937	.0050850	.0135594	.0310335	.0622811	.1115524
26	.0000284	.0001624	.0007090	.0024842	.0071105	.0179418	.0384761	.0736347
27	.0000098	.0000635	.0003023	.0011611	.0036711	.0098300	.0228035	.0466996
28	.0000032	.0000230	.0001232	.0005196	.0017907	.0051527	.0129698	.0284410
29	.0000010	.0000081	.0000481	.0002228	.0008374	.0026314	.0070819	.0165477
30	.0000003	.0000027	.0000180	.0000916	.0003756	.0012799	.0037141	.0093665
31	.0000001	.0000009	.0000064	.0000361	.0001617	.0005978	.0018716	.0050671
32		.0000003	.0000022	.0000137	.0000669	.0002683	.0009067	.0026367
33		.0000001	.0000007	.0000050	.0000266	.0001158	.0004225	.0013203
34			.0000002	.0000017	.0000102	.0000481	.0001894	.0006364
35			.0000001	.0000006	.0000037	.0000192	.0000817	.0002954
36				.0000002	.0000013	.0000074	.0000340	.0001321
37				.0000001	.0000005	.0000027	.0000136	.0000569
38					.0000001	.0000010	.0000053	.0000237
39						.0000003	.0000020	.0000095
40						.0000001	.0000007	.0000037
41							.0000002	.0000014
42							.0000001	.0000005
43								.0000002
44								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999975	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999875	.9999960	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000
7	.9999475	.9999822	.9999942	.9999982	.9999994	.9999998	1.0000000	1.0000000
8	.9998116	.9999319	.9999763	.9999920	.9999974	.9999993	.9999997	.9999999
9	.9994116	.9997738	.9999159	.9999699	.9999896	.9999965	.9999989	.9999997
10	.9983738	.9993320	.9997365	.9999000	.9999634	.9999871	.9999956	.9999986
11	.9959720	.9982376	.9993610	.9997024	.9998848	.9999546	.9999846	.9999946
12	.9902630	.9957915	.9981252	.9991996	.9996719	.9998707	.9999509	.9999821
13	.9814731	.9908846	.9956710	.9980367	.9991484	.9996454	.9998580	.9999453
14	.9650263	.9815993	.9907700	.9955767	.9979710	.9991077	.9996233	.9998471
15	.9387991	.9658324	.9818377	.9907085	.9955341	.9979269	.9990778	.9996056
16	.9001220	.9409132	.9667520	.9821698	.9908702	.9955290	.9979029	.9990866

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 122

p	.17	.18	.19	.20	.21	.22	.23	.24
17	.8471448	.9043321	.9430874	.9677603	.9825791	.9910061	.9955571	.9978973
18	.7794871	.8542627	.9084757	.9452935	.9688369	.9830518	.9911881	.9956142
19	.6986512	.7901494	.8611160	.9125418	.9475277	.9699645	.9835754	.9914087
20	.6080247	.7131147	.8003084	.8677168	.9165222	.9497596	.9711386	.9841393
21	.5124302	.6260279	.7268514	.8100035	.8740760	.9204106	.9519816	.9723171
22	.4173293	.5331758	.6431597	.7399254	.8192781	.8802037	.9242026	.9541837
23	.3279052	.4396031	.5530337	.6594937	.7523912	.8281408	.8861088	.9270946
24	.2483714	.3502972	.4611170	.5720679	.6750934	.7642956	.8366364	.8917997
25	.1809905	.2694318	.3721807	.4819100	.5903350	.6900142	.7756794	.8447815
26	.1269712	.1984482	.2904024	.3935553	.5020145	.6078856	.7043048	.7865778
27	.0856932	.1420627	.2188367	.3111476	.4144251	.5214642	.6247647	.7180058
28	.0556387	.0983862	.1591496	.2378963	.3316401	.4347967	.5402899	.6411128
29	.0347430	.0652613	.1116473	.1757635	.2569765	.3518593	.4546780	.5585202
30	.0208743	.0416922	.0755301	.1254145	.1926438	.2760351	.3717898	.4740613
31	.0120686	.0256537	.0492671	.0863940	.1396305	.2097375	.2950367	.3914201
32	.0067160	.0152053	.0309845	.0574433	.0978006	.1542427	.2269975	.3139516
33	.0035984	.0086031	.0187891	.0368812	.0661941	.1097313	.1692029	.2443828
34	.0018569	.0047784	.0109872	.0228279	.0432744	.0754917	.1221811	.1844670
35	.0009232	.0025347	.0061968	.0136444	.0273268	.0502123	.0853081	.1349392
36	.0004423	.0012964	.0033715	.0076719	.0166672	.0323852	.0576607	.0956148
37	.0002043	.0006395	.0017700	.0043643	.0098198	.0200657	.0377032	.0656041
38	.0000910	.0003043	.0008960	.0023577	.0055890	.0120548	.0238471	.0435763
39	.0000391	.0001398	.0004386	.0012245	.0030734	.0070007	.0145492	.0280166
40	.0000162	.0000620	.0002072	.0006143	.0016331	.0039304	.0086330	.0174334
41	.0000065	.0000263	.0000945	.0002977	.0008307	.0021334	.0049414	.0104986
42	.0000025	.0000110	.0000416	.0001394	.0004163	.0011198	.0027360	.0061188
43	.0000009	.0000044	.0000177	.0000631	.0001998	.0005684	.0014655	.0034513
44	.0000003	.0000017	.0000073	.0000276	.0000927	.0002791	.0007595	.0018842
45	.0000001	.0000006	.0000029	.0000117	.0000416	.0001325	.0003809	.0009956
46		.0000002	.0000011	.0000048	.0000181	.0000609	.0001840	.0005093
47		.0000001	.0000004	.0000019	.0000076	.0000271	.0000868	.0002522
48			.0000001	.0000007	.0000031	.0000116	.0000395	.0001209
49			.0000001	.0000003	.0000012	.0000049	.0000174	.0000561
50				.0000001	.0000005	.0000020	.0000074	.0000252
51					.0000002	.0000008	.0000031	.0000110
52					.0000001	.0000003	.0000012	.0000046
53						.0000001	.0000005	.0000019
54							.0000002	.0000007
55							.0000001	.0000003
56								.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999937	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
13	.9999797	.9999927	.9999975	.9999992	.9999997	.9999999	1.0000000	1.0000000
14	.9999403	.9999775	.9999919	.9999972	.9999990	.9999997	.9999999	1.0000000
15	.9998380	.9999360	.9999756	.9999911	.9999968	.9999989	.9999996	.9999999
16	.9995926	.9998308	.9999325	.9999740	.9999904	.9999966	.9999988	.9999996
17	.9990453	.9995838	.9998256	.9999297	.9999728	.9999898	.9999963	.9999987
18	.9979079	.9990426	.9995793	.9998223	.9999278	.9999718	.9999894	.9999962
19	.9956964	.9979334	.9990477	.9995786	.9998208	.9999267	.9999712	.9999891
20	.9916613	.9958001	.9979717	.9990599	.9995816	.9998210	.9999264	.9999709
21	.9847344	.9919401	.9959219	.9980210	.9990783	.9995877	.9998228	.9999268
22	.9735195	.9853527	.9922396	.9960587	.9980749	.9991021	.9995968	.9998860
23	.9563572	.9747271	.9859871	.9925553	.9962076	.9981466	.9991305	.9996087
24	.9314443	.9584952	.9759323	.9866316	.9928828	.9963661	.9983197	.9991627
25	.8972841	.9349700	.9605920	.9771290	.9872809	.9932185	.9965318	.9982979
26	.8525958	.9025607	.9383506	.9626428	.9783116	.9879305	.9935590	.9967025
27	.7970219	.8600969	.9076602	.9416254	.9646437	.9794755	.9885763	.9939016
28	.7311565	.8070389	.8673003	.9125644	.9447944	.9665916	.9806168	.9892150
29	.6566659	.7437893	.8166530	.8742200	.9172869	.9478575	.9684839	.9817323
30	.5761818	.6717567	.7559336	.8259855	.8808685	.9218328	.9508151	.9703185
31	.4930149	.5932995	.6863142	.7676156	.8347557	.8872571	.9262062	.9536678
32	.4107423	.5114906	.6098960	.7003650	.7788588	.8432806	.8933958	.9304136
33	.3327547	.4297508	.5295194	.6259923	.7139327	.7896042	.8514756	.8992941
34	.2618569	.3514253	.4484422	.5471123	.6416080	.7270391	.8001108	.8593546
35	.1999951	.2793881	.3699456	.4668144	.5642798	.6567608	.7397036	.8101558
36	.1481490	.2157507	.2969484	.3884009	.4849667	.5810333	.6714673	.7519440
37	.1063841	.1617162	.2317008	.3145128	.4064789	.5025993	.5973797	.6857485
38	.0744257	.1175887	.1756087	.2478155	.3320597	.4244690	.5200129	.6133318
39	.0509906	.0829082	.1292023	.1897966	.2640674	.3495698	.4423625	.5371089
40	.0338770	.0566634	.0922337	.1411996	.2042519	.2804320	.3670258	.4598518
41	.0220590	.0375296	.0638615	.1019845	.1535561	.2189487	.2968866	.3844125
42	.0140689	.0240842	.0428739	.0714838	.1121426	.1662488	.2338630	.3134109
43	.0087740	.0149735	.0277033	.0486083	.0795201	.1225907	.1792556	.2489724
44	.0052897	.0090100	.0174017	.0320576	.0547301	.0879599	.1336114	.1925557
45	.0030840	.0052611	.0107608	.0205014	.0365501	.0612353	.0967923	.1448881
46	.0017829	.0029731	.0063750	.0127116	.0236791	.0413828	.0681197	.1060063
47	.0006685	.0016275	.0036598	.0076107	.0148790	.0271407	.0465565	.0753782
48	.0003373	.0008630	.0020358	.0044519	.0090668	.0172708	.0308912	.0530717
49	.0001648	.0004433	.0010973	.0025143	.0053574	.0106615	.0198948	.0349345
50	.0000780	.0002205	.0005731	.0013763	.0030693	.0063838	.0124327	.0227554
51	.0000356	.0001063	.0002900	.0007302	.0017048	.0037072	.0075385	.0143877
52	.0000159	.0000496	.0001422	.0003755	.0009180	.0020877	.0044342	.0088885

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 122

r	.25	.26	.27	.28	.29	.30	.31	.32
53	.0000068	.0000225	.0000676	.0001871	.0004792	.0011400	.0025299	.0052565
54	.0000028	.0000098	.0000311	.0000904	.0002425	.0006036	.0013999	.0030364
55	.0000011	.0000042	.0000139	.0000423	.0001189	.0003099	.0007513	.0017014
56	.0000004	.0000017	.0000060	.0000192	.0000565	.0001542	.0003939	.0009247
57	.0000002	.0000007	.0000025	.0000084	.0000261	.0000744	.0001972	.0004874
58	.0000001	.0000003	.0000010	.0000036	.0000116	.0000348	.0000965	.0002492
59		.0000001	.0000004	.0000015	.0000050	.0000158	.0000458	.0001235
60			.0000002	.0000006	.0000021	.0000069	.0000210	.0000593
61			.0000001	.0000002	.0000009	.0000030	.0000094	.0000276
62				.0000001	.0000003	.0000012	.0000040	.0000125
63					.0000001	.0000005	.0000017	.0000055
64						.0000002	.0000007	.0000023
65						.0000001	.0000003	.0000010
66							.0000001	.0000004
67								.0000001
68								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999987	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999960	.9999986	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999889	.9999959	.9999986	.9999995	.9999998	1.0000000	1.0000000	1.0000000
21	.9999709	.9999889	.9999959	.9999986	.9999995	.9999998	.9999999	1.0000000
22	.9999276	.9999712	.9999890	.9999958	.9999986	.9999995	.9999998	.9999999
23	.9998305	.9999295	.9999718	.9999892	.9999960	.9999986	.9999995	.9999998
24	.9996219	.9998360	.9999316	.9999726	.9999895	.9999961	.9999986	.9999995
25	.9991981	.9996372	.9998424	.9999342	.9999736	.9999898	.9999962	.9999987
26	.9983799	.9992359	.9996540	.9998495	.9999372	.9999748	.9999903	.9999964
27	.9968764	.9984646	.9992756	.9996718	.9998573	.9999404	.9999761	.9999908
28	.9942435	.9970519	.9985510	.9993164	.9996905	.9998654	.9999439	.9999775
29	.9898436	.9945827	.9972273	.9986382	.9993580	.9997096	.9998739	.9999475
30	.9828191	.9904595	.9949170	.9974015	.9987252	.9993999	.9997289	.9998825
31	.9720937	.9838750	.9910606	.9952450	.9975731	.9988115	.9994416	.9997483
32	.9564161	.9738084	.9848980	.9916450	.9955650	.9977413	.9988964	.9994827
33	.9344573	.9590611	.9754615	.9858865	.9922112	.9950759	.9979051	.9989793
34	.9049603	.9383418	.9616037	.9770525	.9868394	.9927579	.9961767	.9980639
35	.8669302	.9104022	.9420711	.9640450	.9785809	.9877555	.9932841	.9964665
36	.8198344	.8742137	.9156270	.9456486	.9663861	.9800466	.9886342	.9937889
37	.7637765	.8291609	.8812157	.9206411	.9490779	.9686285	.9814497	.9894750
38	.6996004	.7752156	.8381479	.8879455	.9254509	.9523623	.9707733	.9827904
39	.6288958	.7130537	.7862748	.8468071	.8944120	.9300618	.9555048	.9728221
40	.5538888	.6440816	.7261143	.7969664	.8551491	.9006231	.9344794	.9585687
41	.4772306	.5703546	.6588965	.7387928	.8073014	.8631836	.9065862	.9387085
42	.4017165	.4943934	.5865081	.6733476	.7510993	.8172900	.8709195	.9123083
43	.3299862	.4189254	.5113355	.6023513	.6874418	.7630426	.8269417	.8783651
44	.2642562	.3465953	.4360284	.5280528	.6178862	.7011850	.7746311	.8362650
45	.2061293	.2796950	.3632228	.4530155	.5445416	.6331145	.7145831	.7858724
46	.1565046	.2199577	.2952709	.3798542	.4698777	.5607987	.6480380	.7276411
47	.1155907	.1684451	.2340233	.3109672	.3964761	.4866066	.5786310	.6626502
48	.0830052	.1255346	.1806948	.2483694	.3267682	.4137764	.5031946	.5926038
49	.0579277	.0909948	.1358270	.1932390	.2628002	.3426594	.4296436	.5196345
50	.0392742	.0641235	.0993411	.1464573	.2060640	.2774808	.3586271	.4461669
51	.0258604	.0439130	.0706576	.1080378	.1574150	.2191565	.2923373	.3746503
52	.0165332	.0292144	.0488530	.0775282	.1170785	.1686899	.2325038	.3073562
53	.0102606	.0188757	.0328220	.0540960	.0847330	.1264570	.1802722	.2460940
54	.0061802	.0118414	.0214212	.0366876	.0596432	.0922697	.1361669	.1921524
55	.0036121	.0072111	.0135771	.0241753	.0408148	.0654957	.1001356	.1462022
56	.0020483	.0042620	.0083550	.0154736	.0271432	.0452072	.0716541	.1083280
57	.0011268	.0024443	.0049907	.0096174	.0175366	.0303298	.0498679	.0781199
58	.0006012	.0013601	.0028932	.0058032	.0110036	.0197716	.0337396	.0547996
59	.0003111	.0007341	.0016274	.0033937	.0067040	.0125194	.0221836	.0373771
60	.0001561	.0003843	.0008881	.0019316	.0039648	.0076978	.0141692	.0247778
61	.0000760	.0001951	.0004701	.0010651	.0022755	.0045949	.0087891	.0159583
62	.0000358	.0000961	.0002413	.0005697	.0012672	.0026620	.0052929	.0099822
63	.0000164	.0000458	.0001201	.0002955	.0006846	.0014964	.0030937	.0060624
64	.0000073	.0000212	.0000580	.0001487	.0003587	.0008160	.0017547	.0035737
65	.0000031	.0000095	.0000271	.0000725	.0001822	.0004316	.0009654	.0020441
66	.0000013	.0000041	.0000123	.0000343	.0000897	.0002213	.0005151	.0011342
67	.0000005	.0000017	.0000054	.0000157	.0000428	.0001100	.0002665	.0006104
68	.0000002	.0000007	.0000023	.0000070	.0000198	.0000530	.0001337	.0003184
69	.0000001	.0000003	.0000009	.0000030	.0000089	.0000248	.0000650	.0001610
70		.0000001	.0000004	.0000012	.0000039	.0000112	.0000306	.0000789
71			.0000001	.0000005	.0000016	.0000049	.0000140	.0000375
72			.0000001	.0000002	.0000007	.0000021	.0000062	.0000173
73				.0000001	.0000003	.0000009	.0000026	.0000077
74					.0000001	.0000003	.0000011	.0000033
75						.0000001	.0000004	.0000014
76							.0000002	.0000006
77							.0000001	.0000002
78								.0000001

$$P(c,n,r) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 122

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	.99999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
26	.99999987	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
27	.99999966	.99999988	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
28	.99999914	.99999968	.99999989	.99999996	.99999999	1.00000000	1.00000000	1.00000000
29	.99997790	.99999919	.99999970	.99999990	.99999996	.99999999	1.00000000	1.00000000
30	.99995512	.99999805	.99999926	.99999973	.99999990	.99999997	.99999999	1.00000000
31	.99988912	.99995549	.99998021	.99999932	.99999975	.99999991	.99999997	.99999999
32	.99977675	.99989998	.99995586	.99998836	.99999938	.99999977	.99999992	.99999997
33	.99955230	.99967863	.99990082	.99996622	.99998851	.99999944	.99999980	.99999993
34	.99900597	.99935622	.99980046	.99991164	.99997658	.99999865	.99999950	.99999982
35	.99782170	.99913739	.99960000	.99982822	.99994244	.99999680	.99999880	.99999955
36	.99674445	.99836639	.99922118	.99963362	.99983491	.99993119	.99997724	.99990933
37	.99427717	.99701103	.99850042	.99929829	.99967707	.99985582	.99993061	.99984755
38	.99027775	.99473320	.99726534	.99866376	.99935503	.99970333	.99981704	.99959458
39	.98406690	.99104118	.99516697	.99750036	.99867639	.99941139	.99937341	.99898046
40	.97477764	.98528861	.99179677	.99558844	.99773706	.99888829	.99864737	.99776628
41	.96137708	.97663777	.98644024	.99245555	.99599762	.99794444	.99789946	.99595296
42	.94275400	.96411254	.97840777	.98753866	.99310555	.99634534	.99581450	.99309970
43	.91779577	.94662014	.96671824	.98008881	.98857588	.99371834	.99669184	.98833254
44	.88555279	.92305444	.95031194	.96919694	.98168064	.98955494	.99229434	.99701614
45	.84526774	.89241494	.92809004	.95383264	.97155164	.98318714	.99047704	.99483434
46	.79677354	.85395714	.89903274	.93290794	.95718674	.97378484	.98460954	.99134354
47	.74036374	.80734074	.86233984	.90538744	.93751314	.96037794	.97569964	.98594974
48	.67697654	.75275534	.81757974	.87042204	.91144464	.94191074	.96341004	.97789074
49	.60815034	.69099394	.76481974	.82749594	.87830944	.91732964	.94610424	.96628674
50	.53591974	.62345194	.70471144	.77656014	.83709404	.88570734	.92292774	.95009924
51	.46263624	.55204364	.63850794	.71812964	.78797974	.84637854	.89292064	.92828344
52	.39074104	.47904214	.56800024	.65331584	.73124684	.79900124	.85535344	.89985384
53	.32252494	.40686354	.49537544	.58378354	.66787294	.74406934	.81096674	.86402244
54	.25991534	.33783134	.42301504	.51162734	.59938774	.68211764	.76059104	.82033824
55	.20432124	.27395674	.35326414	.43918484	.52778954	.61480704	.69622304	.76881334
56	.15655664	.21676994	.28822074	.36881214	.45536304	.54385384	.63003574	.71001004
57	.11684434	.16722444	.22948994	.30266534	.38446494	.47153974	.55981004	.64306804
58	.08489034	.12568174	.17819984	.24247504	.31729834	.40021244	.48770554	.57565634
59	.06000504	.09196854	.13483764	.18947744	.25571144	.33211894	.41604464	.50838104
60	.04124634	.06548654	.09935354	.14430934	.20105184	.26919764	.34711084	.43195214
61	.02758884	.04535114	.07124644	.10704564	.15409434	.21291814	.28292444	.36226544
62	.01789124	.03053124	.04969524	.07728704	.11504464	.16419034	.22507134	.29688484
63	.01128144	.01997274	.03369954	.05428234	.08361034	.12335094	.17459504	.23750694
64	.00690694	.01269094	.02220724	.03706804	.05911594	.09021844	.13196464	.18530654
65	.00410454	.00782994	.01421494	.02459914	.04064084	.06419954	.09711374	.14088604
66	.00236674	.00468894	.00883494	.01585724	.02715274	.04442314	.06953644	.10429824
67	.00132384	.00272464	.00532974	.00992524	.01762184	.02987214	.04941604	.07513034
68	.00071814	.00153574	.00311964	.00602954	.01111044	.01951254	.03276154	.05266254
69	.00037764	.00084934	.00177114	.00355384	.00679094	.01237484	.02153324	.03582504
70	.00019254	.00044474	.00097494	.00203154	.00402914	.00761644	.01374064	.02368744
71	.00009504	.00022834	.00052024	.00112504	.00231824	.00454734	.00850844	.01520454
72	.00004554	.00011364	.00026894	.00060474	.00129304	.00263254	.00511034	.00946964
73	.00002114	.00005474	.00013474	.00031474	.00069884	.00147714	.00295764	.00571984
74	.00000944	.00002554	.00006534	.00015864	.00036584	.00080304	.00167924	.00334504
75	.00000414	.00001154	.00003074	.00007744	.00018544	.00042284	.00091794	.00189994
76	.00000174	.00000504	.00001394	.00003654	.00009104	.00021554	.00048584	.00104394
77	.00000074	.00000214	.00000614	.00001674	.00004524	.00010634	.00025084	.00055524
78	.00000034	.00000094	.00000264	.00000744	.00002194	.00005074	.00012334	.00028574
79	.00000014	.00000034	.00000114	.00000314	.00000884	.00002344	.00005914	.00014224
80		.00000014	.00000044	.00000134	.00000384	.00001044	.00002744	.00006844
81			.00000024	.00000054	.00000164	.00000454	.00001224	.00003184
82			.00000014	.00000024	.00000064	.00000194	.00000534	.00001434
83				.00000014	.00000024	.00000074	.00000224	.00000624
84					.00000014	.00000034	.00000094	.00000264
85						.00000014	.00000034	.00000104
86							.00000014	.00000044
87								.00000024
88								.00000014

r	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000

$$F(c,n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

c	.49	.50
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	.9999999	1.0000000
33	.9999998	.9999999
34	.9999994	.9999998
35	.9999984	.9999995
36	.9999961	.9999986
37	.9999906	.9999965
38	.9999784	.9999918
39	.9999521	.9999810
40	.9998978	.9999580
41	.9997896	.9999101
42	.9995815	.9998143
43	.9991961	.9996296
44	.9985071	.9992860
45	.9973185	.9986690
46	.9953391	.9975996
47	.9921556	.9958094
48	.9872098	.9929148
49	.9797850	.9883918
50	.9690118	.9815613
51	.9538996	.9715887
52	.9334016	.9575097
53	.9065114	.9382865
54	.8733880	.9126973
55	.8304975	.8804556
56	.7807358	.8403459
57	.7235348	.7923574
58	.6599981	.7367918
59	.5913786	.6745201
60	.5199670	.6069711
61	.4479254	.5360446
62	.3775742	.4639554
63	.3110721	.3930289
64	.2502805	.3254799
65	.1963229	.2632082
66	.1501156	.2076426
67	.1117743	.1596541
68	.0809845	.1195444
69	.0570576	.0871027
70	.0390666	.0617135
71	.0259789	.0424903
72	.0167695	.0284113
73	.0105020	.0184387
74	.0063776	.0116082
75	.0037536	.0070852
76	.0021401	.0041906
77	.0011814	.0024004
78	.0006312	.0013310
79	.0003262	.0007140
80	.0001630	.0003704
81	.0000787	.0001857
82	.0000367	.0000899
83	.0000165	.0000420
84	.0000072	.0000190
85	.0000030	.0000082
86	.0000012	.0000035
87	.0000005	.0000014
88	.0000002	.0000005
89	.0000001	.0000002
90		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 12

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7095115	.9166689	.9763994	.9934028	.9981803	.9995049	.9998671	.9999649
2	.3486016	.7074907	.8866197	.9595920	.9864000	.9956175	.9986371	.9995889
3	.1362287	.4470858	.7172416	.8736562	.9485792	.9804816	.9928894	.9979548
4	.0356239	.2327379	.5059555	.7292363	.8682928	.9415148	.9758441	.9906011
5	.0081600	.1015048	.3099168	.5487114	.7415249	.8668974	.9371287	.9723566
6	.0015696	.0377630	.1656162	.3696909	.5827314	.7535425	.8677741	.9345985
7	.0003565	.0121796	.0778458	.2229936	.4183662	.6112460	.7651093	.8700265
8	.0000371	.0034529	.0324740	.1208294	.2737743	.4594341	.6359505	.7761767
9	.0000047	.0008705	.0121268	.0591052	.1634278	.3189274	.4949868	.6578442
10	.0000005	.0001971	.0040859	.0262427	.0892182	.2043298	.3544124	.5263637
11	.0000001	.0000404	.0012508	.0106331	.0446924	.1209417	.2430808	.3960265
12		.0000076	.0003501	.0039517	.0206186	.0662636	.1531314	.2795988
13		.0000013	.0000901	.0013533	.0087929	.0336895	.0899411	.1851067
14		.0000002	.0000214	.0004289	.0034786	.0159363	.0493300	.1149488
15			.0000047	.0001263	.0012809	.0070327	.0253126	.0670147
16			.0000010	.0000347	.0004404	.0029030	.0121763	.0367260
17			.0000002	.0000089	.0001418	.0011236	.0055022	.0189478
18				.0000021	.0000428	.0004088	.0023403	.0092176
19				.0000005	.0000122	.0001401	.0009388	.0042349
20				.0000001	.0000033	.0000453	.0003558	.0018405
21					.0000008	.0000139	.0001277	.0007578
22					.0000002	.0000040	.0000434	.0002961
23						.0000011	.0000140	.0001099
24						.0000003	.0000043	.0000388
25						.0000001	.0000013	.0000131
26							.0000004	.0000042
27							.0000001	.0000013
28								.0000004
29								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999908	.9999976	.9999994	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9998794	.9999655	.9999903	.9999974	.9999993	.9999998	1.0000000	1.0000000
3	.9992068	.9997474	.9999221	.9999767	.9999932	.9999981	.9999995	.9999999
4	.9965840	.9987702	.9995818	.9998628	.9999565	.9999866	.9999960	.9999988
5	.9885639	.9955127	.9983199	.9993970	.9997918	.9999307	.9999777	.9999930
6	.9698272	.9868985	.9946082	.9973853	.9992062	.9997139	.9999007	.9999667
7	.9333032	.9680750	.9858859	.9938313	.9974854	.9990198	.9996334	.9998689
8	.8731390	.9331170	.9669476	.9845912	.9931875	.9971312	.9988459	.9995544
9	.7867449	.8767957	.9335454	.9663211	.9838755	.9926733	.9968283	.9986877
10	.6775656	.7968334	.8807940	.9344869	.9660958	.9834004	.9922803	.9965783
11	.5544689	.6955478	.8064678	.8849990	.9358090	.9661917	.9831309	.9919979
12	.4294046	.5799390	.7120986	.8156752	.8893187	.9374134	.9665444	.9830354
13	.3139606	.4600484	.6032383	.7274448	.8244815	.8936883	.9392256	.9671020
14	.2164724	.3463061	.4883564	.6247150	.7417583	.8325111	.8930619	.9411884
15	.1407163	.2470078	.3767936	.5146474	.6446366	.7551729	.8409861	.9024062
16	.0862718	.1668328	.2765961	.4055804	.5391795	.6632128	.7677949	.8487867
17	.0499856	.1067015	.1930043	.3051892	.4328133	.5621637	.6806113	.7797101
18	.0273003	.0646491	.1279762	.2190245	.3327759	.4586263	.5837741	.6969676
19	.0141829	.0371334	.0806468	.1498317	.2447481	.3593695	.4831393	.6041559
20	.0069806	.0202377	.0483184	.0976888	.1720572	.2700749	.3849971	.5064594
21	.0032166	.0104753	.0275415	.0607147	.1155756	.1944859	.2949371	.4056933
22	.0014199	.0051558	.0149464	.0359853	.0741805	.1341320	.2169861	.3192905
23	.0005940	.0024158	.0077209	.0203506	.0455024	.0885794	.1532080	.2394542
24	.0002388	.0010790	.0038117	.0109883	.0266846	.0560155	.1037840	.1726761
25	.0000907	.0004589	.0017944	.0056688	.0149685	.0339276	.0674429	.1196776
26	.0000330	.0001865	.0008071	.0027963	.0080359	.0196886	.0420468	.0797015
27	.0000115	.0000785	.0003471	.0013199	.0041318	.0109517	.0251544	.0510008
28	.0000038	.0000269	.0001429	.0005966	.0020352	.0058419	.0144449	.0313608
29	.0000012	.0000096	.0000563	.0002584	.0009613	.0029900	.0079651	.0185347
30	.0000004	.0000033	.0000213	.0001073	.0004357	.0014691	.0042192	.0105315
31	.0000001	.0000011	.0000077	.0000428	.0001895	.0006933	.0021480	.0057550
32		.0000003	.0000027	.0000164	.0000792	.0003145	.0010514	.0030256
33		.0000000	.0000009	.0000060	.0000318	.0001371	.0004951	.0015309
34			.0000003	.0000021	.0000123	.0000575	.0002244	.0007458
35			.0000001	.0000007	.0000046	.0000232	.0000979	.0003500
36				.0000002	.0000016	.0000090	.0000411	.0001588
37				.0000001	.0000006	.0000034	.0000167	.0000690
38					.0000002	.0000012	.0000065	.0000290
39					.0000001	.0000004	.0000025	.0000118
40						.0000001	.0000009	.0000046
41							.0000003	.0000017
42							.0000001	.0000006
43								.0000002
44								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999979	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999898	.9999966	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000
7	.9999543	.9999847	.9999951	.9999984	.9999995	.9999999	1.0000000	1.0000000
8	.9998347	.9999410	.9999797	.9999932	.9999978	.9999993	.9999998	.9999999
9	.9994796	.9998018	.9999274	.9999743	.9999913	.9999971	.9999991	.9999997
10	.9985803	.9994114	.9997706	.9999140	.9999689	.9999892	.9999964	.9999988
11	.9963803	.9984346	.9993513	.9997419	.9999013	.9999636	.9999871	.9999956
12	.9918145	.9962318	.9983410	.9993001	.9997166	.9998897	.9999587	.9999851
13	.9830864	.9917187	.9961292	.9982692	.9992583	.9996949	.9998794	.9999541
14	.9678882	.9832598	.9916993	.9960687	.9983182	.9992260	.9996772	.9998707
15	.9432577	.9686704	.9835348	.9917461	.9960459	.9981867	.9992028	.9996636
16	.9066971	.9453987	.9696183	.9838935	.9918496	.9960566	.9981730	.9991884

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 123$$

r	.17	.18	.19	.20	.21	.22	.23	.24
17	.8561509	.9109167	.9475837	.9706422	.9843203	.9920011	.9960966	.9981754
18	.7909889	.8632752	.9150519	.9497909	.9717228	.9840017	.9921929	.9961681
19	.7183933	.8016098	.8701143	.9190931	.9520086	.9728437	.9853263	.9924180
20	.6434318	.7269809	.8116619	.8766818	.9230333	.9542046	.9739914	.9858840
21	.5706813	.6417035	.7408083	.8215470	.8829897	.9268674	.9563855	.9751544
22	.4334964	.5498892	.6520611	.7539412	.8307809	.8890492	.9305918	.9585357
23	.3431073	.4564468	.5701577	.6755000	.7664362	.8395946	.8948704	.9348040
24	.2618098	.3663723	.4785819	.5895530	.6913259	.7783415	.8480151	.9004685
25	.1924882	.2839076	.3890787	.4999416	.6081343	.7063561	.7896998	.8560659
26	.1361545	.2123738	.3089403	.4118843	.5205618	.6259538	.7207805	.8005467
27	.0927105	.1531201	.2324342	.3276892	.4328189	.5404769	.6417058	.7344631
28	.0607430	.1061920	.1704902	.2525465	.3490250	.4538635	.5591191	.6594911
29	.0388948	.0712838	.1206787	.1881900	.2726556	.3701056	.4743693	.5783184
30	.0232320	.0459346	.0823924	.1354843	.2061537	.2927164	.3908542	.4943467
31	.0133656	.0285406	.0542571	.0941981	.1507633	.2243230	.3136899	.4118588
32	.0076260	.0170860	.0344582	.0633374	.1065918	.1664516	.2426465	.3325440
33	.0041264	.0098571	.0211062	.0409776	.0728331	.1195238	.1884957	.2610793
34	.0021539	.0054813	.0124696	.0256146	.0480875	.0830244	.1329499	.1988468
35	.0010819	.0029386	.0071070	.0154811	.0306753	.0557730	.0937751	.1468859
36	.0005241	.0015193	.0039083	.0090264	.0189056	.0362292	.0640196	.1050527
37	.0002448	.0007578	.0020743	.0050818	.0112577	.0227540	.0422934	.0780067
38	.0001103	.0003647	.0010627	.0027631	.0064775	.0138172	.0270740	.0486630
39	.0000480	.0001694	.0005257	.0014511	.0036017	.0081126	.0167185	.0317509
40	.0000201	.0000760	.0002511	.0007343	.0019356	.0046058	.0100030	.0199733
41	.0000082	.0000329	.0001159	.0003610	.0010055	.0025288	.0057905	.0121630
42	.0000032	.0000138	.0000517	.0001711	.0005050	.0013488	.0032432	.0071699
43	.0000012	.0000056	.0000223	.0000784	.0002453	.0006897	.0017577	.0040915
44	.0000004	.0000022	.0000093	.0000347	.0001152	.0003427	.0009219	.0022603
45	.0000002	.0000008	.0000037	.0000149	.0000523	.0001648	.0004680	.0012089
46	.0000001	.0000003	.0000015	.0000062	.0000230	.0000767	.0002299	.0006260
47		.0000001	.0000005	.0000025	.0000098	.0000345	.0001094	.0003139
48			.0000002	.0000010	.0000040	.0000150	.0000504	.0001524
49			.0000001	.0000004	.0000016	.0000063	.0000224	.0000717
50				.0000001	.0000006	.0000026	.0000097	.0000326
51					.0000002	.0000010	.0000041	.0000144
52					.0000001	.0000004	.0000015	.0000068
53						.0000001	.0000006	.0000025
54							.0000002	.0000010
55							.0000001	.0000004
56								.0000001
57								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999985	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999948	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
13	.9999832	.9999941	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000
14	.9999501	.9999815	.9999934	.9999977	.9999992	.9999998	.9999999	1.0000000
15	.9998636	.9999468	.9999800	.9999928	.9999975	.9999992	.9999997	.9999999
16	.9996539	.9998582	.9999441	.9999788	.9999923	.9999973	.9999991	.9999997
17	.9991821	.9996480	.9998545	.9999421	.9999779	.9999919	.9999971	.9999990
18	.9981933	.9991033	.9996458	.9998524	.9999409	.9999772	.9999915	.9999970
19	.9962493	.9982218	.9991913	.9996469	.9998519	.9999403	.9999766	.9999914
20	.9926701	.9963548	.9982622	.9992052	.9996510	.9998528	.9999403	.9999767
21	.9864662	.9929437	.9964754	.9983119	.9992243	.9996577	.9998549	.9999409
22	.9763232	.9870654	.9932339	.9966082	.9983694	.9992478	.9996668	.9998583
23	.9606477	.9774897	.9876753	.9935362	.9967506	.9984332	.9992750	.9996779
24	.9377025	.9627155	.9786471	.9882902	.9938470	.9969002	.9985080	.9993053
25	.9058341	.9410865	.9647339	.9797897	.9889054	.9941628	.9970550	.9985746
26	.8637678	.9109931	.9443557	.9666989	.9809127	.9895169	.9944806	.9972130
27	.8109153	.8711395	.9159466	.9475103	.9686074	.9820120	.9901810	.9947979
28	.7476228	.8208340	.8781975	.9207015	.9505507	.9704868	.9830843	.9907147
29	.6752866	.7602342	.8303277	.8849565	.9252641	.9534778	.9722451	.9841868
30	.5963029	.6904851	.7723278	.8394192	.8914299	.9296402	.9562985	.9739709
31	.5118067	.6136983	.7051114	.7839312	.8481284	.8976298	.9338354	.9589960
32	.4313105	.5327609	.6305249	.7191951	.7950689	.8564735	.9035678	.9378549
33	.3582516	.4510032	.5512211	.6468167	.7327613	.8057631	.8644709	.9092883
34	.2795814	.3717899	.4703330	.5691987	.6625822	.7458326	.8160339	.8781358
35	.2154606	.2981178	.3911397	.4892978	.5867050	.6778443	.7584899	.8358994
36	.1611105	.2322965	.3166576	.4102847	.5078965	.6037509	.6926805	.7705718
37	.1168253	.1757652	.2493177	.3351735	.4292114	.5261298	.6203460	.7069870
38	.0821153	.1290619	.1907536	.2664907	.3536413	.4479081	.5439966	.6345088
39	.0559306	.0919251	.1417321	.2060419	.2837852	.3720395	.4663651	.5615000
40	.0369074	.0634870	.1022152	.1548067	.2215984	.3011733	.3903498	.4845740
41	.0235913	.0425044	.0715220	.1129647	.1682579	.2373937	.3186897	.4065571
42	.0146056	.0275800	.0485406	.0800240	.1241525	.1820588	.2534003	.3341314
43	.0087577	.0173422	.0319453	.0550135	.0889807	.1357581	.1961039	.2695897
44	.0050858	.0105664	.0203832	.0366918	.0619192	.0983792	.1477611	.2106091
45	.0028604	.0062379	.0126078	.0237371	.0418223	.0692527	.1082063	.1601417
46	.0015581	.0035680	.0075592	.0148927	.0274117	.0473385	.0770068	.1184485
47	.0008221	.0019773	.0043929	.0090605	.0174310	.0314133	.0538411	.0851798
48	.0004201	.0010617	.0024743	.0053448	.0107523	.0202318	.0357474	.0595897
49	.0002080	.0005524	.0013507	.0030568	.0064331	.0126443	.0233038	.0404104
50	.0000997	.0002795	.0007146	.0016950	.0037328	.0076671	.0147456	.0266587
51	.0000463	.0001360	.0003665	.0009111	.0021005	.0045108	.0090557	.0170654

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 123

%	.25	.26	.27	.28	.29	.30	.31	.32
53	.0000209	.0000644	.0001821	.0004748	.0011462	.0025735	.0053965	.0106074
54	.0000091	.0000295	.0000877	.0002399	.0006064	.0014243	.0031202	.0063995
55	.0000038	.0000131	.0000410	.0001175	.0003111	.0007645	.0017502	.0037468
56	.0000016	.0000057	.0000185	.0000558	.0001548	.0003980	.0009523	.0021886
56	.0000006	.0000024	.0000081	.0000257	.0000746	.0002009	.0005026	.0011733
57	.0000002	.0000010	.0000035	.0000114	.0000349	.0000983	.0002573	.0006274
58	.0000001	.0000004	.0000014	.0000050	.0000158	.0000467	.0001277	.0003254
59		.0000001	.0000006	.0000021	.0000070	.0000215	.0000615	.0001637
60		.0000001	.0000002	.0000008	.0000030	.0000096	.0000287	.0000799
61			.0000001	.0000003	.0000012	.0000041	.0000130	.0000378
62				.0000001	.0000005	.0000017	.0000057	.0000173
63					.0000002	.0000007	.0000024	.0000077
64					.0000001	.0000003	.0000010	.0000033
65						.0000001	.0000004	.0000014
66							.0000002	.0000006
67							.0000001	.0000002
68								.0000001

%	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999969	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999913	.9999969	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
21	.9999769	.9999913	.9999968	.9999989	.9999996	.9999999	1.0000000	1.0000000
22	.9999481	.9999772	.9999914	.9999969	.9999989	.9999996	.9999999	1.0000000
23	.9998686	.9999437	.9999778	.9999916	.9999969	.9999989	.9999996	.9999999
24	.9996907	.9998678	.9999457	.9999786	.9999919	.9999970	.9999990	.9999997
25	.9993379	.9997048	.9998736	.9999480	.9999795	.9999922	.9999972	.9999990
26	.9986499	.9993724	.9997199	.9998800	.9999507	.9999805	.9999926	.9999973
27	.9973726	.9987269	.9994080	.9997358	.9998868	.9999535	.9999816	.9999930
28	.9951124	.9975322	.9988046	.9994444	.9997522	.9998939	.9999564	.9999888
29	.9918956	.9954822	.9976906	.9988823	.9994810	.9997688	.9999012	.9999595
30	.9851378	.9918614	.9957256	.9978467	.9989594	.9995176	.9997855	.9999085
31	.9756331	.9861137	.9924104	.9960213	.9979994	.9990351	.9995536	.9998020
32	.9615897	.9772310	.9870549	.9929410	.9963080	.9981480	.9991090	.9995690
33	.9417037	.9640752	.9787643	.9879596	.9934521	.9965848	.9982917	.9991607
34	.9146943	.9453864	.9664539	.9802327	.9884269	.9939428	.9968508	.9984300
35	.8794801	.9199017	.9489075	.9687277	.9816365	.9896564	.9944128	.9971054
36	.8353760	.8865178	.9248824	.9522713	.9708982	.9829760	.9904476	.9948599
37	.7822756	.8444789	.8932596	.9296438	.9554880	.9729674	.9842517	.9910005
38	.7207785	.7935570	.8532216	.8997159	.9341929	.9585434	.9749371	.9854642
39	.6528283	.7341888	.8044304	.8616169	.9058964	.9385360	.9614595	.9768094
40	.5786411	.6675321	.7471705	.8149090	.8696764	.9118098	.9426793	.9642341
41	.5025278	.5954217	.6824287	.7597353	.8250050	.8774106	.9174645	.9466886
42	.4266361	.5202202	.6118440	.6969079	.7718940	.8347296	.8848295	.9226684
43	.3536572	.4445845	.5376459	.6279100	.7109950	.7836566	.8440930	.8919423
44	.2859471	.3711876	.4623859	.5548002	.6436217	.7246999	.7950322	.8531050
45	.2253112	.3024411	.3887048	.4800289	.5716791	.6589813	.7330018	.8060294
46	.1728807	.2402684	.3190541	.4061922	.4975033	.5882787	.6739906	.7509336
47	.1290923	.1859594	.2554600	.3357665	.4236347	.5147996	.6045957	.6886514
48	.0937584	.1401242	.1993597	.2708662	.3525601	.4410179	.5319089	.6206868
49	.0662032	.1027384	.1515307	.2130643	.2864683	.3694179	.4583285	.5488230
50	.0454398	.0732597	.1121112	.1632987	.2270564	.3022487	.3863235	.4755539
51	.0302870	.0507845	.0806969	.1218688	.1754151	.2413197	.3181903	.4032617
52	.0196112	.0342119	.0564846	.0885117	.1320030	.1878672	.2558389	.3342770
53	.0123306	.0223909	.0384329	.0625316	.0967009	.1425035	.2006425	.2705988
54	.0075257	.0142331	.0254115	.0429546	.0689265	.1052609	.1533680	.2137890
55	.0044596	.0087854	.0163225	.0286797	.0477814	.0756698	.1141878	.1645822
56	.0025644	.0052647	.0101827	.0186062	.0322017	.0529169	.0827619	.1234777
57	.0014309	.0030623	.0061682	.0117256	.0210910	.0359832	.0583645	.0903025
58	.0007746	.0017287	.0036273	.0071763	.0134209	.0237837	.0400396	.0641873
59	.0004068	.0009469	.0020704	.0042643	.0082949	.0152752	.0266905	.0443461
60	.0002073	.0005032	.0011469	.0024598	.0049783	.0095300	.0172949	.0298175
61	.0001024	.0002594	.0006164	.0013771	.0029006	.0057740	.0108874	.0194861
62	.0000491	.0001297	.0003214	.0007481	.0016403	.0033965	.0066564	.0123726
63	.0000228	.0000629	.0001625	.0003942	.0009001	.0019393	.0039514	.0076303
64	.0000103	.0000296	.0000797	.0002015	.0004792	.0010745	.0022769	.0045692
65	.0000045	.0000135	.0000379	.0000999	.0002475	.0005776	.0012732	.0026559
66	.0000019	.0000060	.0000175	.0000480	.0001240	.0003012	.0006907	.0014988
67	.0000008	.0000026	.0000078	.0000224	.0000602	.0001523	.0003635	.0007899
68	.0000003	.0000011	.0000034	.0000101	.0000283	.0000747	.0001855	.0004153
69	.0000001	.0000004	.0000014	.0000044	.0000129	.0000355	.0000918	.0002240
70		.0000002	.0000006	.0000019	.0000057	.0000163	.0000440	.0001118
71		.0000001	.0000002	.0000008	.0000024	.0000073	.0000204	.0000540
72			.0000001	.0000003	.0000010	.0000032	.0000092	.0000253
73				.0000001	.0000004	.0000013	.0000040	.0000115
74					.0000002	.0000005	.0000017	.0000050
75					.0000001	.0000002	.0000007	.0000021
76						.0000001	.0000003	.0000009
77							.0000001	.0000004
78								.0000001
79								.0000001

$$F(r,n,p) = \sum_{i=r}^{n} \binom{n}{i} p^i (1-p)^{n-i} \qquad n = 123$$

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999975	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999935	.9999976	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
29	.9999841	.9999940	.9999978	.9999992	.9999998	.9999999	1.0000000	1.0000000
30	.9999626	.9999853	.9999945	.9999980	.9999993	.9999998	.9999999	1.0000000
31	.9999158	.9999657	.9999866	.9999950	.9999982	.9999994	.9999998	.9999999
32	.9998182	.9999229	.9999687	.9999878	.9999955	.9999984	.9999994	.9999998
33	.9996239	.9998340	.9999299	.9999716	.9999890	.9999959	.9999986	.9999995
34	.9992497	.9996563	.9998402	.9999366	.9999745	.9999902	.9999964	.9999987
35	.9985625	.9993158	.9995879	.9998637	.9999430	.9999772	.9999913	.9999968
36	.9973482	.9986887	.9993787	.9997180	.9998775	.9999491	.9999797	.9999923
37	.9953855	.9975708	.9988085	.9994303	.9997465	.9998905	.9999548	.9999821
38	.9919151	.9956809	.9977969	.9988215	.9994945	.9997732	.9999027	.9999601
39	.9866145	.9928917	.9960700	.9980025	.9990378	.9995471	.9997981	.9999140
40	.9785864	.9887035	.9932305	.9964288	.9981956	.9991870	.9995961	.9998213
41	.9668707	.9802700	.9887323	.9938322	.9967657	.9983761	.9992198	.9996415
42	.9503894	.9693731	.9818626	.9897031	.9943974	.9970809	.9985041	.9993057
43	.9280286	.9539671	.9717447	.9833665	.9906142	.9949267	.9973748	.9987004
44	.8987877	.9328521	.9573666	.9739091	.9847034	.9914701	.9954811	.9976479
45	.8617744	.9053835	.9376454	.9605929	.9761096	.9861163	.9923712	.9958815
46	.8166561	.8701094	.9115274	.9421148	.9636509	.9781099	.9873678	.9930191
47	.7634917	.8269195	.8781178	.9174964	.9463662	.9665451	.9799933	.9885387
48	.7028653	.7756812	.8368265	.8858069	.9231974	.9504054	.9692801	.9817633
49	.6363690	.7169317	.7875065	.8463834	.8931832	.9286366	.9543379	.9716605
50	.5655342	.6518195	.7305579	.7988718	.8555960	.9002536	.9338806	.9578698
51	.4926824	.5820351	.6669754	.7438390	.8100812	.8644693	.9070239	.9367550
52	.4202180	.5097027	.5983185	.6818339	.7567277	.8208380	.8730100	.9135000
53	.3504935	.4371785	.5266041	.6133777	.6963920	.7692748	.8318455	.8812815
54	.2855852	.3668248	.4541299	.5433761	.6302060	.7106471	.7816305	.8413066
55	.2271148	.3008840	.3832559	.4710595	.5600087	.6457968	.7245959	.7935453
56	.1761401	.2407863	.3161819	.3997761	.4879541	.5764923	.6611437	.7382356
57	.1331264	.1880335	.2547305	.3317659	.4163691	.5046042	.5928171	.6762402
58	.0979914	.1431297	.2002545	.2689545	.3475233	.4330229	.5215955	.6089739
59	.0702080	.1061880	.1534834	.2127955	.2834255	.3634419	.4497852	.5383175
60	.0489373	.0766069	.1146119	.1641833	.2256486	.2981414	.3795097	.4664635
61	.0331706	.0538079	.0833325	.1234416	.1758253	.2380067	.3130920	.3957150
62	.0218549	.0367556	.0589622	.0903807	.1326170	.1866050	.2522628	.3288675
63	.0139914	.0244073	.0405777	.0644044	.0977557	.1421370	.1983188	.2660063
64	.0087004	.0157491	.0271409	.0446423	.0701384	.1054594	.1520009	.2103627
65	.0052535	.0098715	.0176516	.0300854	.0489546	.0761682	.1134936	.1623078
66	.0030792	.0060081	.0111403	.0197036	.0332223	.0535197	.0824977	.1218603
67	.0017514	.0035496	.0068369	.0125352	.0219107	.0365651	.0583126	.0891309
68	.0009665	.0020150	.0040700	.0077436	.0140370	.0242779	.0401191	.0634883
69	.0005172	.0011318	.0023510	.0046411	.0087318	.0156582	.0268105	.0438097
70	.0002684	.0006104	.0013173	.0027013	.0053719	.0098053	.0174031	.0295134
71	.0001350	.0003192	.0007157	.0015243	.0030884	.0059591	.0109676	.0192763
72	.0000658	.0001618	.0003770	.0008340	.0017543	.0035133	.0067074	.0122203
73	.0000311	.0000794	.0001924	.0004423	.0009662	.0020086	.0039789	.0075197
74	.0000142	.0000378	.0000951	.0002272	.0005157	.0011131	.0022885	.0044870
75	.0000063	.0000174	.0000456	.0001131	.0002666	.0005977	.0012757	.0025955
76	.0000027	.0000078	.0000211	.0000545	.0001335	.0003108	.0006889	.0014548
77	.0000011	.0000033	.0000095	.0000254	.0000647	.0001565	.0003608	.0007897
78	.0000004	.0000014	.0000041	.0000115	.0000303	.0000763	.0001823	.0004150
79	.0000003	.0000006	.0000017	.0000050	.0000138	.0000359	.0000893	.0002111
80	.0000001	.0000002	.0000007	.0000021	.0000060	.0000164	.0000423	.0001038
81		.0000001	.0000003	.0000009	.0000026	.0000072	.0000193	.0000494
82			.0000001	.0000003	.0000010	.0000031	.0000086	.0000237
83				.0000001	.0000004	.0000013	.0000037	.0000101
84					.0000002	.0000005	.0000015	.0000043
85					.0000001	.0000002	.0000006	.0000018
86						.0000001	.0000002	.0000007
87							.0000001	.0000003
88								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000

$$P(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 123

x	.49	.50
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	.9999999	1.0000000
33	.9999998	1.0000000
34	.9999996	.9999999
35	.9999989	.9999996
36	.9999972	.9999990
37	.9999933	.9999976
38	.9999844	.9999942
39	.9999650	.9999864
40	.9999244	.9999695
41	.9998426	.9999340
42	.9996835	.9998689
43	.9993850	.9997480
44	.9988447	.9995178
45	.9979009	.9989775
46	.9963090	.9981343
47	.9937155	.9967045
48	.9896339	.9943621
49	.9834231	.9906533
50	.9742906	.9849765
51	.9613046	.9765750
52	.9434456	.9645492
53	.9196876	.9478981
54	.8891088	.9258919
55	.8510842	.8966764
56	.8051190	.8604007
57	.7515629	.8163516
58	.6910798	.7645746
59	.6249531	.7056560
60	.5549387	.6407456
61	.4832258	.5715078
62	.4118463	.5000000
63	.3436582	.4284922
64	.2800378	.3592544
65	.2227387	.2943440
66	.1727572	.2354854
67	.1305618	.1836484
68	.0960719	.1395993
69	.0687818	.1033236
70	.0478588	.0744081
71	.0323919	.0521019
72	.0213881	.0354508
73	.0135731	.0234250
74	.0083986	.0150835
75	.0050393	.0094447
76	.0029307	.0056379
77	.0016518	.0032955
78	.0009008	.0018657
79	.0004756	.0010225
80	.0002429	.0005432
81	.0001200	.0002780
82	.0000573	.0001378
83	.0000264	.0000660
84	.0000117	.0000305
85	.0000050	.0000136
86	.0000021	.0000058
87	.0000008	.0000024
88	.0000003	.0000010
89	.0000001	.0000004
90		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 124

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.71241164	.91831155	.97711074	.99366667	.99887713	.99955346	.99987764	.99996777
2	.35881107	.71167443	.88931131	.96094444	.98698890	.99585307	.99878232	.99961190
3	.13844455	.45939935	.72233230	.87709936	.95047092	.98138898	.99338848	.99775344
4	.03652999	.23702488	.51229941	.73501131	.87230971	.94385298	.97704488	.99116606
5	.00844433	.10412955	.31579800	.55593246	.74786333	.87137455	.93983886	.97381688
6	.00163566	.03903799	.16994533	.37605188	.59067113	.76034388	.87266889	.93761918
7	.00028716	.01869133	.08047889	.22086155	.42655845	.61970388	.77229593	.87519235
8	.00003944	.00369748	.03383513	.12491599	.28110039	.46854788	.64449144	.78368047
9	.00000508	.00092218	.01273798	.06615741	.16899451	.32735788	.50488543	.66731088
10	.00000066	.00021058	.00433718	.03275572	.09292868	.21120868	.36898268	.53600218
11	.00000018	.00004358	.00133598	.01125758	.04691878	.12594508	.24113408	.40443358
12		.00000088	.00037718	.00421898	.02108238	.06958438	.15048798	.28891308
13		.00000014	.00009798	.00145738	.00938428	.03568398	.08438448	.19284618
14		.00000028	.00003358	.00046598	.00374438	.01700158	.04581288	.12058148
15			.00000528	.00013848	.00139088	.00756698	.02699398	.07084958
16			.00000118	.00003838	.00048248	.00315078	.01309588	.04914918
17			.00000028	.00000998	.00015678	.00128048	.00545938	.02837018
18				.00000248	.00004768	.00045178	.00205618	.01509608
19				.00000068	.00001378	.00015628	.00073698	.00759608
20				.00000018	.00000378	.00005108	.00039668	.00380218
21					.00000108	.00001588	.00014368	.00088458
22					.00000028	.00000468	.00004938	.00033308
23					.00000018	.00000118	.00001618	.00018488
24						.00000038	.00000508	.00004458
25						.00000018	.00000158	.00001818
26							.00000048	.00000498
27							.00000018	.00000158
28								.00000048
29								.00000018

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.99999917	.99999979	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
2	.99988804	.99996887	.99999913	.99999977	.99999994	.99999998	1.00000000	1.00000000
3	.99958673	.99976892	.99992996	.99997791	.99999940	.99999983	.99999995	.99999999
4	.99867654	.99886679	.99961192	.99988765	.99996612	.99999082	.99999965	.99999990
5	.99628803	.99583385	.99845887	.99945529	.99981132	.99993385	.99998041	.99999940
6	.97115135	.98777600	.99501665	.99806667	.99926824	.99974488	.99991188	.99997709
7	.93666631	.96999573	.98657884	.99431788	.99770891	.99911169	.99968735	.99988839
8	.87855610	.93661288	.96699979	.98570018	.99374628	.99739568	.99894634	.99960046
9	.79455204	.88344278	.93728146	.96851368	.98508618	.99329748	.99713088	.99888643
10	.68873917	.80488296	.88659668	.93838078	.96848078	.98469868	.99299685	.99691588
11	.56555478	.70567648	.81466378	.89093768	.93974638	.96860098	.98458338	.99277078
12	.44066604	.59149998	.72247938	.82399408	.89536248	.94144848	.96903848	.98446948
13	.33435068	.47808758	.61581308	.73803548	.83291038	.89980988	.94338348	.96965148
14	.24524648	.35768038	.50099348	.63704268	.75251238	.84141998	.90483648	.94533468
15	.17453448	.25693718	.38906568	.52785558	.65728648	.76605638	.84954758	.90861148
16	.09117188	.17485008	.28761788	.41866848	.55288898	.67608728	.77877368	.85731548
17	.05319678	.11271468	.20219948	.31723618	.44664098	.57631058	.69368888	.79075888
18	.02893658	.06885448	.13513938	.22936438	.34574088	.47311218	.59839978	.71080648
19	.01530888	.03988508	.08585258	.15613488	.25619178	.37338658	.49823458	.61900508
20	.00756888	.02192738	.05187458	.10394598	.18115078	.28425768	.39971848	.52209088
21	.00355008	.01145208	.03908698	.06515168	.12291888	.20506848	.30844618	.42817588
22	.00158168	.00568768	.01633188	.03895988	.07956158	.14258188	.22867888	.33379498
23	.00066708	.00266938	.00859298	.02222678	.04928058	.09495688	.16277478	.25322888
24	.00027048	.00121178	.00424268	.01211168	.02913098	.06057458	.11119768	.18336068
25	.00010408	.00052088	.00201638	.00630728	.01649168	.03701998	.07389408	.13015738
26	.00003828	.00021388	.00091378	.00314108	.00893718	.02160818	.04586568	.08609778
27	.00001348	.00008398	.00039778	.00149708	.00463888	.01217468	.02768038	.05559298
28	.00000458	.00003158	.00016538	.00068348	.00230778	.00655738	.01605138	.03455328
29	.00000148	.00001138	.00006588	.00029908	.00110098	.00338928	.00893718	.02058658
30	.00000048	.00000398	.00002518	.00012558	.00050408	.00168208	.00478118	.01181208
31	.00000018	.00000138	.00000928	.00005058	.00022158	.00080198	.00245878	.00651928
32		.00000048	.00000328	.00001958	.00009368	.00037858	.00121598	.00346838
33		.00000018	.00000118	.00000738	.00003808	.00016208	.00057038	.00177008
34			.00000048	.00000268	.00001488	.00006878	.00026508	.00087148
35			.00000018	.00000098	.00000568	.00002808	.00011698	.00041338
36				.00000038	.00000208	.00001108	.00004978	.00018898
37				.00000018	.00000078	.00000428	.00001838	.00006338
38					.00000028	.00000158	.00000658	.00002348
39					.00000018	.00000058	.00000258	.00000858
40						.00000028	.00000118	.00000458
41						.00000018	.00000048	.00000168
42							.00000018	.00000068
43								.00000028
44								.00000018

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	.99999982	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	.99999907	.99999971	.99999991	.99999997	.99999999	1.00000000	1.00000000	1.00000000
7	.99998608	.99999868	.99999958	.99999987	.99999996	.99999999	1.00000000	1.00000000
8	.99995531	.99999408	.99999826	.99999943	.99999982	.99999994	.99999998	1.00000000
9	.99955400	.99982269	.99993379	.99999781	.99999926	.99999976	.99999992	.99999998
10	.99870883	.99944817	.99980004	.99992661	.99997736	.99999909	.99999970	.99999988
11	.99674928	.99861048	.99943108	.99977648	.99991558	.99999698	.99999892	.99999844
12	.99259078	.99664838	.99853308	.99933858	.99975548	.99992598	.99999588	.99999678
13	.98457018	.99253108	.99658958	.99844758	.99935468	.99973788	.99998768	.99999418
14	.97041718	.98478248	.99259108	.99658088	.99843678	.99932878	.99997378	.99998978
15	.94743378	.97139658	.98508618	.99286108	.99650218	.99841538	.99993118	.99997138
16	.91391248	.94956768	.97288248	.98546408	.99273088	.99658528	.99984098	.99993088

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 124

N	.17	.18	.19	.20	.21	.22	.23	.24
17	.96647437	.97171934	.97517703	.97732925	.97859014	.97938933	.97965748	.97941185
18	.94030665	.94718506	.95212330	.95396618	.95396082	.95463886	.95309008	.95066453
19	.90257546	.91277731	.91866585	.92052387	.92061439	.91954744	.91669056	.91331166
20	.84385540	.85404885	.86229298	.86831640	.87091169	.87083053	.86765984	.86374521
21	.76447888	.77570534	.78543085	.79325739	.79913989	.80320816	.80604348	.80777395
22	.66496778	.67664157	.68745931	.69746824	.70647448	.71473692	.72165243	.72685242
23	.55847134	.57028659	.58170493	.59125583	.59979486	.60504746	.61030863	.61400436
24	.45756299	.47025856	.48259813	.49367584	.50270991	.51018172	.51587918	.52006605
25	.36492330	.37888169	.39206843	.40356045	.41281989	.42031121	.42667211	.43211121
26	.28572310	.29852638	.31217366	.32609494	.33989520	.35306423	.36565856	.37738713
27	.21909960	.23137856	.24464004	.25844864	.27212449	.28522018	.29699810	.30750338
28	.16617755	.17748030	.18922595	.20175631	.21466217	.22739185	.23908078	.24978484
29	.12481108	.13475541	.14513180	.15606613	.16766934	.17985383	.19239998	.20497999
30	.09257986	.10096867	.10996656	.11960254	.12991101	.14097420	.15264427	.16444999
31	.06780869	.07516715	.08296028	.09124553	.10023953	.10993695	.12006677	.13111999
32	.04906357	.05491479	.06128800	.06824264	.07599223	.08457565	.09363304	.10351356
33	.03472330	.03911583	.04396431	.04942888	.05572841	.06299479	.07119304	.08029108
34	.02384888	.02706880	.03071105	.03487032	.03983841	.04591543	.05313454	.06163824
35	.01618640	.01853963	.02101359	.02375118	.02693319	.03061689	.03487853	.03982109
36	.01086189	.01247748	.01425161	.01623173	.01843772	.02088890	.02366434	.02681182
37	.00722923	.00838948	.00968297	.01112638	.01274707	.01458638	.01668185	.01907457
38	.00481335	.00564354	.00659549	.00769268	.00896113	.01043185	.01213705	.01411437
39	.00320586	.00380045	.00450277	.00532135	.00628556	.00742676	.00878376	.01040911
40	.00213249	.00256920	.00309033	.00372793	.00450855	.00546773	.00664475	.00806000
41	.00141908	.00173407	.00211416	.00258161	.00315008	.00384857	.00470593	.00575375
42	.00094040	.00117172	.00145639	.00180972	.00225091	.00280101	.00348891	.00434683
43	.00062315	.00079070	.00100279	.00127069	.00161098	.00204334	.00259094	.00328303
44	.00041306	.00053428	.00069118	.00089434	.00115725	.00149190	.00192411	.00248098
45	.00027382	.00036111	.00047648	.00062888	.00083055	.00109639	.00144741	.00191012
46	.00018151	.00024407	.00032838	.00044161	.00059392	.00079960	.00107647	.00144859
47	.00012032	.00016497	.00022639	.00031072	.00042632	.00058447	.00080171	.00109988
48	.00007976	.00011151	.00015605	.00021859	.00030604	.00042736	.00059711	.00083419
49	.00005287	.00007537	.00010759	.00015375	.00021971	.00031371	.00044439	.00062918
50	.00003505	.00005094	.00007416	.00010814	.00015771	.00022939	.00033089	.00047710
51	.00002323	.00003443	.00005113	.00007605	.00011322	.00016777	.00024636	.00036184
52	.00001540	.00002327	.00003525	.00005349	.00008126	.00012270	.00018338	.00027447
53	.00001021	.00001573	.00002430	.00003762	.00005833	.00008974	.00013650	.00020815
54	.00000677	.00001063	.00001675	.00002646	.00004187	.00006564	.00010161	.00015786
55	.00000449	.00000719	.00001155	.00001861	.00003006	.00004801	.00007563	.00011972
56	.00000298	.00000486	.00000796	.00001309	.00002158	.00003512	.00005629	.00009079
57	.00000197	.00000328	.00000548	.00000920	.00001549	.00002569	.00004189	.00006886

N	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	.99999988	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	.99999957	.99999986	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
13	.99998451	.99999952	.99999984	.99999995	.99999998	1.00000000	1.00000000	1.00000000
14	.99995084	.99998848	.99999946	.99999983	.99999994	.99999998	.99999999	1.00000000
15	.99985828	.99995558	.99998836	.99999942	.99999980	.99999993	.99999998	.99999999
16	.99970063	.99988813	.99995538	.99998827	.99999938	.99999978	.99999993	.99999998
17	.99931001	.99970037	.99987887	.99995824	.99998800	.99999935	.99999977	.99999993
18	.99843397	.99930341	.99970031	.99987775	.99995516	.99998816	.99999933	.99999976
19	.99673350	.99844718	.99933140	.99970044	.99988777	.99995513	.99999814	.99999938
20	.99355649	.99684402	.99851130	.99933288	.99970092	.99988790	.99995516	.99999814
21	.98801171	.99386306	.99695788	.99856820	.99934480	.99971162	.99988814	.99995824
22	.97885889	.98859938	.99411091	.99708852	.99861173	.99931708	.99971252	.99988847
23	.96455664	.97997794	.98917861	.99439964	.99712200	.99866776	.99933965	.99971356
24	.94343888	.96655568	.98110447	.98975591	.99460890	.99736601	.99847417	.99934246
25	.91380128	.94671018	.96884905	.98216898	.99033385	.99440840	.99675016	.99868085
26	.87428844	.91888174	.94985788	.97033643	.98332306	.98909106	.99352787	.99764877
27	.82412885	.88115015	.92361718	.95288031	.97211759	.98148634	.98814724	.99555207
28	.76334460	.83391134	.88838897	.92820080	.95578472	.96739233	.98032656	.99208115
29	.69333781	.77859801	.84328526	.89496551	.93359773	.94585715	.96756053	.98623349
30	.61604493	.71886199	.78798778	.85216935	.90438418	.91347915	.94812378	.97728084
31	.53443074	.65336639	.72325995	.79946788	.86068588	.87233390	.91407971	.96378800
32	.45193455	.58380047	.65066662	.73732128	.81045618	.82680204	.87189504	.94449011
33	.37201638	.51220608	.57243428	.66708268	.75083058	.77809762	.82765907	.91840588
34	.29777489	.44021728	.49021728	.59093178	.68429341	.72638118	.78310494	.88401227
35	.23149088	.36917235	.41035219	.51167008	.61870948	.67284088	.73762871	.84069498
36	.17469880	.30494100	.33676788	.43240848	.55075108	.61859789	.69130214	.78882766
37	.12789966	.24904633	.26749995	.35620046	.48275301	.56494157	.64427517	.73272933
38	.09079288	.20412048	.20656598	.28572819	.41713744	.51376652	.59766538	.67590386
39	.06247767	.16158078	.15496798	.22296768	.35640435	.46648001	.55255009	.61855009
40	.04166632	.12388848	.11328848	.16915258	.30263268	.42334338	.51039141	.56091904
41	.02692038	.09179598	.07991098	.12468805	.25652768	.38408628	.47208798	.50419798
42	.01685208	.06546038	.05474568	.08902474	.21869431	.34906592	.43763214	.44953064
43	.01031978	.04500048	.03644618	.06201848	.18913058	.31826483	.40693210	.39808851
44	.00600038	.03032281	.02355049	.04218319	.16579670	.29125928	.37977722	.35094838
45	.00341688	.00736338	.01477072	.02736448	.04765048	.26779907	.35604683	.30763913
46	.00188637	.00426228	.00899333	.01736918	.03159088	.05391288	.08667968	.13179038
47	.00100618	.00239098	.00532478	.01069368	.02032548	.03619098	.06060698	.09580538
48	.00052806	.00129988	.00309238	.00638528	.01268918	.02358638	.04117058	.06773768
49	.00026108	.00066848	.00165418	.00365758	.00768578	.01492068	.02716098	.04651408
50	.00012688	.00033498	.00088648	.00200768	.00450598	.00916038	.01739068	.03135788
51	.00005978	.00017308	.00047058	.00111068	.00257398	.00554728	.01081968	.02081338

$$I_x(n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 124$$

x	.25	.26	.27	.28	.29	.30	.31	.32
52	.0000218	.0000830	.0002819	.0005970	.0014229	.0031545	.0065309	.0186740
53	.0000120	.0000706	.0001132	.0003056	.0007630	.0017691	.0038859	.0077461
54	.0000058	.0000174	.0000536	.0001517	.0003968	.0009635	.0021749	.0045957
55	.0000021	.0000076	.0000846	.0000730	.0002001	.0005079	.0011997	.0026465
56	.0000009	.0000032	.0000109	.0000341	.0000979	.0002600	.0006480	.0014790
57	.0000003	.0000013	.0000047	.0000154	.0000464	.0001291	.0003333	.0008021
58	.0000001	.0000005	.0000020	.0000068	.0000214	.0000622	.0001679	.0004180
59		.0000002	.0000008	.0000029	.0000095	.0000290	.0000810	.0002154
60		.0000001	.0000003	.0000010	.0000041	.0000130	.0000389	.0001067
61			.0000001	.0000005	.0000017	.0000058	.0000179	.0000513
62				.0000002	.0000007	.0000025	.0000080	.0000239
63				.0000001	.0000003	.0000010	.0000034	.0000108
64					.0000001	.0000004	.0000014	.0000047
65						.0000002	.0000006	.0000020
66						.0000001	.0000002	.0000008
67							.0000001	.0000003
68								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999976	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999931	.9999976	.9999988	.9999997	.9999999	1.0000000	1.0000000	1.0000000
21	.9999816	.9999932	.9999976	.9999998	.9999997	.9999999	1.0000000	1.0000000
22	.9999535	.9999820	.9999933	.9999974	.9999992	.9999997	.9999999	1.0000000
23	.9998888	.9999551	.9999826	.9999931	.9999977	.9999993	.9999997	.9999999
24	.9997474	.9998936	.9999569	.9999831	.9999938	.9999978	.9999992	.9999997
25	.9994544	.9997602	.9998988	.9999590	.9999841	.9999941	.9999979	.9999993
26	.9988770	.9994854	.9997737	.9999045	.9999613	.9999850	.9999944	.9999980
27	.9977941	.9989463	.9995172	.9997877	.9999104	.9999637	.9999859	.9999948
28	.9956563	.9979384	.9990158	.9995493	.9998020	.9999166	.9999663	.9999869
29	.9915581	.9961396	.9980805	.9990447	.9995814	.9998163	.9999267	.9999688
30	.9871695	.9930781	.9964134	.9982195	.9991804	.9996130	.9998306	.9999389
31	.9787695	.9880679	.9935707	.9966784	.9983546	.9992184	.9996441	.9998446
32	.9646341	.9802512	.9889293	.9940499	.9969330	.9984851	.9992824	.9996742
33	.9403661	.9685482	.9814660	.9897529	.9945000	.9971708	.9986105	.9993440
34	.9236074	.9517406	.9707636	.9830144	.9905383	.9949467	.9974128	.9987303
35	.8911008	.9285665	.9550488	.9728695	.9843970	.9912852	.9953633	.9976353
36	.8499304	.8970683	.9332918	.9581956	.9748714	.9855146	.9919930	.9957581
37	.7997967	.8587721	.9043276	.9377897	.9611040	.9767706	.9866681	.9926643
38	.7410725	.8100704	.8678349	.9104900	.9420698	.9640245	.9785698	.9877587
39	.6748498	.7543740	.8245073	.8753386	.9163661	.9461388	.9667150	.9802713
40	.6029249	.6901954	.7767115	.8317839	.8830778	.9219657	.9500036	.9692642
41	.5276452	.6199393	.7050844	.7795978	.8415314	.8904823	.9273983	.9536700
42	.4516004	.5457847	.6365466	.7195858	.7915451	.8509404	.8975578	.9333725
43	.3777408	.4703006	.5636158	.6527498	.7335277	.8030643	.8599803	.9043128
44	.3083914	.3961435	.4887360	.5811197	.6685449	.7470979	.8141660	.8686399
45	.2453210	.3258149	.4144932	.5069466	.5982979	.6839509	.7603437	.8248597
46	.1901888	.2614071	.3434318	.4327734	.5249484	.6131457	.6989349	.7729719
47	.1435185	.2044848	.2777179	.3611108	.4508661	.5387217	.6316597	.7135643
48	.1054188	.1557088	.2189268	.2940703	.3788577	.4620549	.5602547	.6478364
49	.0753264	.1158495	.1682709	.2338730	.3109283	.3866859	.4870248	.5775445
50	.0522851	.0838835	.1259080	.1812143	.2490368	.3177750	.4144054	.5048618
51	.0352841	.0584261	.0916919	.1367836	.1945224	.2644727	.3449684	.4321784
52	.0231343	.0398466	.0649589	.1005802	.1480656	.2081798	.2801559	.3618709
53	.0147172	.0264100	.0447510	.0718044	.1097327	.1597469	.2231691	.2960701
54	.0091180	.0170067	.0299690	.0500023	.0792030	.1194138	.1718051	.2364769
55	.0054717	.0106376	.0195037	.0338187	.0556050	.0869144	.1294681	.1842409
56	.0031898	.0064617	.0123317	.0222327	.0379662	.0615630	.0950180	.1399195
57	.0018049	.0038111	.0075733	.0142026	.0250020	.0434180	.0678795	.1035126
58	.0009918	.0021631	.0045166	.0088141	.0160569	.0298455	.0471608	.0745574
59	.0005382	.0012127	.0026153	.0053127	.0101916	.0198084	.0319927	.0522563
60	.0002731	.0006541	.0014701	.0031094	.0062055	.0117139	.0209591	.0356889
61	.0001370	.0003483	.0008020	.0017666	.0036693	.0067213	.0133863	.0236186
62	.0000647	.0001738	.0004246	.0009745	.0021066	.0038065	.0083065	.0152180
63	.0000315	.0000856	.0002181	.0005316	.0011740	.0020930	.0050064	.0095878
64	.0000144	.0000409	.0001087	.0002709	.0006380	.0011031	.0029300	.0057936
65	.0000064	.0000190	.0000503	.0001365	.0003338	.0005665	.0016647	.0034018
66	.0000028	.0000085	.0000246	.0000667	.0001697	.0002879	.0009179	.0019613
67	.0000011	.0000037	.0000113	.0000314	.0000830	.0001389	.0004911	.0010918
68	.0000005	.0000016	.0000049	.0000145	.0000401	.0000642	.0002549	.0005891
69	.0000002	.0000006	.0000021	.0000065	.0000186	.0000304	.0001283	.0003085
70	.0000001	.0000003	.0000009	.0000028	.0000084	.0000136	.0000626	.0001567

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 124

c	.33	.34	.35	.36	.37	.38	.39	.40
71		.0000001	.0000004	.0000012	.0000037	.0000107	.0000296	.0000771
72			.0000001	.0000005	.0000015	.0000047	.0000136	.0000368
73			.0000001	.0000002	.0000006	.0000020	.0000060	.0000170
74				.0000001	.0000003	.0000008	.0000026	.0000076
75					.0000001	.0000003	.0000011	.0000033
76						.0000001	.0000004	.0000014
77							.0000002	.0000006
78							.0000001	.0000002
79								.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999951	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
29	.9999879	.9999955	.9999984	.9999995	.9999998	.9999999	1.0000000	1.0000000
30	.9999714	.9999890	.9999958	.9999986	.9999995	.9999998	1.0000000	1.0000000
31	.9999350	.9999739	.9999900	.9999963	.9999987	.9999996	.9999999	1.0000000
32	.9998582	.9999409	.9999764	.9999910	.9999967	.9999988	.9999998	.9999999
33	.9997032	.9998713	.9999466	.9999788	.9999919	.9999971	.9999999	.9999997
34	.9994628	.9997309	.9998839	.9999520	.9999810	.9999928	.99 974	.9999991
35	.9988442	.9994588	.9997573	.9998854	.9999572	.9999832	.9 937	.9999977
36	.9978451	.9989521	.9995117	.9997021	.9999076	.9999626	.9 852	.9999945
37	.9951312	.9980450	.9990537	.9995614	.9998034	.9999174	.9 4665	.9999870
38	.9932970	.9964827	.9982319	.9991489	.9996079	.9998272	.9999272	.9999707
39	.9887878	.9938925	.9966126	.9980469	.9992378	.9996511	.9998473	.9999361
40	.9818779	.9897565	.9944515	.9971213	.9985701	.9993203	.9996910	.9998658
41	.9716741	.9833921	.9906665	.9949747	.9974091	.9987216	.9993937	.9997278
42	.9571468	.9739498	.9848166	.9915193	.9954631	.9976767	.9988616	.9994669
43	.9371965	.9604376	.9760954	.9861541	.9923166	.9959176	.9979245	.9989009
44	.9107587	.9417784	.9635492	.9781151	.9874073	.9930601	.9963394	.9980153
45	.8769375	.9169043	.9461355	.9664672	.9800129	.9885790	.9937517	.9967294
46	.8351546	.8848825	.9227581	.9502452	.9692573	.9817928	.9896721	.9943931
47	.7852891	.8450593	.8926439	.9283285	.9541443	.9710649	.9834590	.9906803
48	.7277811	.7973013	.8545818	.8997502	.9336234	.9570297	.9743153	.9850155
49	.6636735	.7416076	.8087141	.8637297	.9066896	.9386503	.9613078	.9766138
50	.5945765	.6791675	.7550458	.8198329	.8725102	.9133098	.9434168	.9645850
51	.5225517	.6113445	.6943159	.7680975	.8305628	.8809303	.9196184	.9479298
52	.4499284	.5400823	.6278410	.7091161	.7807643	.8409086	.8889965	.9256224
53	.3790805	.4676387	.5574415	.6440584	.7235656	.7930476	.8508746	.8967152
54	.3121976	.3963734	.4852938	.5746168	.6599807	.7376619	.8049496	.8604658
55	.2510876	.3285212	.4137323	.5028708	.5915975	.6756279	.7514022	.8164707
56	.1970397	.2659865	.3450242	.4311468	.5203791	.6083724	.6909663	.7647843
57	.1507620	.2101905	.2811592	.3616904	.4485087	.5377407	.6249306	.7059980
58	.1123968	.1619893	.2236827	.2965915	.3785039	.4660423	.5550697	.6412617
59	.0815992	.1216687	.1735950	.2375054	.3122695	.3954492	.4835043	.5722325
60	.0576583	.0890070	.1313265	.1855726	.2518462	.3281796	.4125110	.5009534
61	.0396350	.0633844	.0967825	.1413678	.1979157	.2661007	.3443083	.4296743
62	.0264944	.0439176	.0694414	.1049275	.1517907	.2110178	.2800523	.3606423
63	.0172155	.0295935	.0484830	.0758340	.1134433	.1625923	.2206722	.2958927
64	.0108697	.0193056	.0329233	.0533376	.0825668	.1223311	.1657703	.2370726
65	.0066667	.0123402	.0217354	.0364904	.0584877	.0896421	.1315920	.1853221
66	.0039707	.0076308	.0139447	.0242716	.0403018	.0639300	.0970658	.1412271
67	.0022958	.0045822	.0086908	.0156893	.0270009	.0443642	.0696955	.1048410
68	.0012883	.0026711	.0052598	.0098519	.0175802	.0299300	.0486841	.0757655
69	.0007014	.0015111	.0030901	.0060073	.0111192	.0195233	.0330655	.0532682
70	.0003704	.0008294	.0017618	.0035857	.0068288	.0124976	.0218246	.0364140
71	.0001897	.0004415	.0009744	.0020422	.0040708	.0077283	.0139923	.0241901
72	.0000942	.0002279	.0005226	.0011377	.0023545	.0046303	.0087097	.0156082
73	.0000453	.0001140	.0002718	.0006146	.0013208	.0027008	.0052613	.0097769
74	.0000211	.0000553	.0001370	.0003219	.0007184	.0015250	.0030830	.0059427
75	.0000095	.0000260	.0000669	.0001633	.0003787	.0008348	.0017517	.0035034
76	.0000042	.0000118	.0000316	.0000803	.0001934	.0004428	.0009647	.0020023
77	.0000018	.0000052	.0000145	.0000382	.0000956	.0002275	.0005147	.0011090
78	.0000007	.0000022	.0000064	.0000176	.0000458	.0001132	.0002659	.0005549
79	.0000003	.0000009	.0000027	.0000078	.0000212	.0000545	.0001330	.0002890
80	.0000001	.0000004	.0000011	.0000034	.0000095	.0000254	.0000644	.0001553

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 124

p	.41	.42	.43	.44	.45	.46	.47	.48
81		.0000001	.0000005	.0000014	.0000041	.0000114	.0000301	.0000755
82		.0000001	.0000002	.0000006	.0000017	.0000050	.0000136	.0000355
83			.0000001	.0000002	.0000007	.0000021	.0000060	.0000161
84				.0000001	.0000003	.0000008	.0000025	.0000071
85					.0000001	.0000003	.0000010	.0000030
86						.0000001	.0000004	.0000012
87							.0000002	.0000005
88							.0000001	.0000002
89								.0000001

p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	.9999999	1.0000000
34	.9999997	.9999999
35	.9999992	.9999997
36	.9999930	.9999993
37	.9999952	.9999983
38	.9999887	.9999959
39	.9999745	.9999903
40	.9999443	.9999779
41	.9998829	.9999519
42	.9997615	.9998981
43	.9995312	.9997921
44	.9991094	.9995699
45	.9983633	.9992176
46	.9970890	.9985559
47	.9949863	.9974194
48	.9916335	.9955333
49	.9864661	.9925077
50	.9787656	.9878149
51	.9676677	.9807758
52	.9521965	.9705621
53	.9313290	.9562236
54	.9040924	.9367450
55	.8696857	.9111342
56	.8276126	.8785386
57	.7778054	.8383762
58	.7207165	.7904631
59	.6573552	.7351153
60	.5892560	.6732008
61	.5183749	.6061267
62	.4469243	.5357539
63	.3771603	.4642461
64	.3112118	.3936733
65	.2508122	.3267992
66	.1972452	.2648847
67	.1512374	.2095369
68	.1129716	.1616218
69	.0821537	.1214414
70	.0581230	.0888658
71	.0399881	.0630550
72	.0267259	.0437764
73	.0173505	.0294379
74	.0109341	.0193248
75	.0066854	.0123851
76	.0039640	.0074923
77	.0022782	.0044667
78	.0012685	.0025806
79	.0006840	.0014441
80	.0003570	.0007824
81	.0001802	.0004101
82	.0000883	.0002079
83	.0000415	.0001019
84	.0000189	.0000482
85	.0000083	.0000231

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 124

c	.49	.50
86	.0000035	.0000097
87	.0000014	.0000041
88	.0000006	.0000017
89	.0000002	.0000007
90	.0000001	.0000003
91		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 125

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.7152922	.9196688	.9777942	.9939200	.9983577	.9995625	.9998851	.9999703
2	.3558127	.7158075	.8919469	.9622533	.9875531	.9960718	.9988039	.9996469
3	.1306841	.4574810	.7273327	.8804476	.9522962	.9822574	.9937585	.9979035
4	.0374491	.2413302	.5185950	.7406963	.8762153	.9461050	.9781881	.9916881
5	.0087251	.1067874	.3216929	.5630956	.7540855	.8757232	.9424432	.9752037
6	.0017037	.0403397	.1743208	.3840150	.5985307	.7670057	.8773336	.9405149
7	.0002853	.0132182	.0831629	.2347811	.4347888	.6282174	.7793192	.8801664
8	.0000417	.0038087	.0352344	.1290738	.2882829	.4776173	.6539029	.7910053
9	.0000054	.0009762	.0133702	.0641070	.1745480	.3358289	.5146639	.6766207
10	.0000006	.0002248	.0045794	.0289179	.0967295	.2181748	.3784192	.5473161
11	.0000001	.0000469	.0014256	.0119094	.0492192	.1310606	.2594615	.4168878
12		.0000089	.0004059	.0045005	.0230771	.0729284	.1658536	.2983162
13		.0000016	.0001062	.0015677	.0100061	.0376779	.0989189	.2003659
14		.0000003	.0000257	.0005056	.0040263	.0181200	.0551262	.1263298
15			.0000058	.0001515	.0015084	.0081330	.0287564	.0748264
16			.0000012	.0000423	.0005278	.0034157	.0140687	.0416851
17			.0000002	.0000111	.0001730	.0013456	.0064682	.0218724
18				.0000027	.0000532	.0004984	.0028003	.0106859
19				.0000006	.0000154	.0001740	.0011436	.0050625
20				.0000001	.0000042	.0000573	.0004415	.0022402
21					.0000011	.0000179	.0001613	.0009395
22					.0000003	.0000053	.0000559	.0003739
23					.0000001	.0000015	.0000184	.0001415
24						.0000004	.0000058	.0000509
25						.0000001	.0000017	.0000175
26							.0000005	.0000057
27							.0000001	.0000018
28								.0000005
29								.0000002

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999924	.9999981	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9998986	.9999716	.9999922	.9999979	.9999995	.9999999	1.0000000	1.0000000
3	.9993233	.9997892	.9999364	.9999814	.9999947	.9999985	.9999996	.9999999
4	.9969906	.9989580	.9996533	.9998888	.9999655	.9999896	.9999973	.9999991
5	.9899540	.9961414	.9989864	.9995037	.9998325	.9999455	.9999828	.9999948
6	.9731125	.9885678	.9953951	.9982331	.9993514	.9997714	.9999225	.9999746
7	.9397997	.9717376	.9875066	.9947677	.9979136	.9992048	.9997093	.9998979
8	.8837902	.9399472	.9709317	.9867342	.9948614	.9976366	.9990700	.9996493
9	.8020840	.8878463	.9407152	.9705759	.9862119	.9938712	.9974057	.9989509
10	.6970333	.8125894	.8921651	.9410318	.9705754	.9859025	.9935878	.9972215
11	.5765135	.7155917	.8225585	.8966219	.9434723	.9708546	.9857722	.9934004
12	.4515002	.6029176	.7326173	.8320272	.9011323	.9452445	.9713530	.9857912
13	.3348184	.4839837	.6270123	.7483478	.8410291	.9056383	.9471797	.9720222
14	.2341657	.3691160	.5135576	.6491614	.7629640	.8495945	.9100995	.9492253
15	.1545284	.2670114	.4013776	.5409580	.6696449	.7766072	.8577508	.9144871
16	.0962444	.1830507	.2967771	.4317709	.5664575	.6886829	.7893897	.8655228
17	.0566145	.1189202	.2115955	.3294080	.4604532	.5902793	.7064515	.8014028
18	.0314840	.0732404	.1425070	.2390089	.3558926	.4875680	.6115080	.7233938
19	.0165713	.0427819	.0912739	.1666824	.2678383	.3872453	.5132243	.6335979
20	.0082654	.0237231	.0556120	.1104486	.1912161	.2952726	.4144958	.5375972
21	.0039117	.0124995	.0322522	.0698069	.1305348	.2159195	.3221370	.4406822
22	.0017588	.0062642	.0170163	.0420967	.0851982	.1513297	.2406439	.3483823
23	.0007528	.0029891	.0093418	.0242339	.0531736	.1016242	.1726603	.2652723
24	.0003064	.0013595	.0047134	.0133856	.0317438	.0653880	.1189342	.1943794
25	.0001190	.0005899	.0022612	.0070037	.0181347	.0403176	.0786396	.1369899
26	.0000441	.0002445	.0010368	.0035209	.0099192	.0238294	.0499119	.0928273
27	.0000156	.0000969	.0004547	.0016943	.0051976	.0135059	.0304135	.0604737
28	.0000053	.0000357	.0001909	.0007810	.0026107	.0073437	.0177968	.0376776
29	.0000017	.0000133	.0000768	.0003451	.0012578	.0038328	.0100042	.0228135
30	.0000005	.0000046	.0000296	.0001463	.0005816	.0019210	.0054045	.0132160
31	.0000002	.0000015	.0000110	.0000595	.0002583	.0009251	.0028070	.0073661
32		.0000005	.0000039	.0000233	.0001102	.0004283	.0014023	.0039514
33		.0000002	.0000013	.0000087	.0000452	.0001907	.0006741	.0020406
34			.0000004	.0000032	.0000178	.0000817	.0003120	.0010152
35			.0000001	.0000011	.0000068	.0000337	.0001391	.0004866
36				.0000004	.0000025	.0000134	.0000597	.0002448
37				.0000001	.0000009	.0000051	.0000247	.0001003
38					.0000003	.0000019	.0000099	.0000430
39					.0000001	.0000007	.0000038	.0000179
40						.0000002	.0000014	.0000071
41						.0000001	.0000005	.0000028
42							.0000002	.0000010
43							.0000001	.0000004
44								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999985	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999920	.9999975	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
7	.9999654	.9999887	.9999964	.9999989	.9999997	.9999999	1.0000000	1.0000000
8	.9998729	.9999557	.9999851	.9999952	.9999985	.9999995	.9999999	1.0000000
9	.9995936	.9998488	.9999459	.9999814	.9999938	.9999980	.9999994	.9999998
10	.9986497	.9995438	.9998264	.9999365	.9999776	.9999924	.9999975	.9999992
11	.9971088	.9987672	.9995012	.9998063	.9999277	.9999740	.9999910	.9999970
12	.9932876	.9969851	.9987036	.9994661	.9997800	.9999199	.9999707	.9999897
13	.9852[illegible]	.9932665	.9969263	.9986580	.9994387	.9997748	.9999132	.9999678
14	.9698231	.9861771	.9933026	.9969021	.9986204	.9994190	.9997837	.9999077
15	.9413409	.9727240	.9865025	.9933703	.9969083	.9986164	.9994066	.9997559
16	.9187810	.9514152	.9748909	.9868933	.9935228	.9969410	.9986173	.9994010

$$F(c,r,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 125

x	.17	.18	.19	.20	.21	.22	.23	.24
17	.8729324	.9229670	.9556638	.9757268	.9873356	.9936923	.9969964	.9986107
18	.8127216	.8799997	.9270350	.9578274	.9767902	.9878175	.9939920	.9970709
19	.7387276	.8234087	.8867428	.9309784	.9599710	.9778749	.9883282	.9941155
20	.6533787	.7534509	.8335171	.8931778	.9347925	.9620825	.9780691	.9880596
21	.5607290	.6720610	.7673465	.8430920	.8993197	.9384748	.9641524	.9800629
22	.4658467	.5827305	.6897390	.7804847	.8521721	.9051819	.9420237	.9661735
23	.3739782	.4900329	.6036826	.7064943	.7929258	.8607914	.9107770	.9454389
24	.2897133	.3989080	.5132842	.6236572	.7223975	.8047219	.8686795	.9161164
25	.2163622	.3138952	.4231647	.5356428	.6427184	.7375103	.8159184	.8767625
26	.1556663	.2385034	.3377627	.4467483	.5571491	.6609235	.7518867	.8265552
27	.1078522	.1748517	.2607143	.3612727	.4696634	.5778411	.6783238	.7655747
28	.0719436	.1236199	.1944463	.2829202	.3843926	.4919184	.5977550	.6949657
29	.0462019	.0842589	.1400411	.2143617	.3050583	.4070973	.5135239	.6169241
30	.0285666	.0553588	.0973554	.1570326	.2345197	.3270759	.4293682	.5344919
31	.0170081	.0350503	.0653147	.1111693	.1745173	.2548515	.3489286	.4511919
32	.0097531	.0214021	.0422827	.0760321	.1256382	.1924241	.2753961	.3705790
33	.0053881	.0125964	.0264127	.0502283	.0874708	.1407017	.2106804	.2958000
34	.0028686	.0071490	.0159217	.0320483	.0588781	.0995589	.1563020	.2292502
35	.0014722	.0039133	.0092630	.0197500	.0383119	.0682117	.1123441	.1723841
36	.0007286	.0020667	.0052019	.0117562	.0240977	.0452018	.0782054	.1256941
37	.0003478	.0010532	.0028205	.0067600	.0146516	.0288768	.0527122	.0888335
38	.0001602	.0005181	.0014768	.0037556	.0086117	.0179690	.0343954	.0608342
39	.0000712	.0002461	.0007469	.0020162	.0046935	.0107791	.0217252	.0403582
40	.0000306	.0001129	.0003649	.0010461	.0026887	.0062552	.0132825	.0259339
41	.0000127	.0000500	.0001723	.0005247	.0014286	.0035119	.0078606	.0161405
42	.0000051	.0000214	.0000787	.0002545	.0007342	.0019077	.0045031	.0097289
43	.0000020	.0000089	.0000347	.0001193	.0003650	.0010028	.0024972	.0056794
44	.0000007	.0000036	.0000148	.0000541	.0001756	.0005102	.0013408	.0032111
45	.0000003	.0000014	.0000061	.0000236	.0000817	.0002512	.0006970	.0017585
46	.0000001	.0000005	.0000024	.0000101	.0000368	.0001190	.0003508	.0009328
47		.0000002	.0000009	.0000041	.0000161	.0000553	.0001710	.0004793
48		.0000001	.0000004	.0000017	.0000068	.0000247	.0000808	.0002386
49			.0000001	.0000006	.0000028	.0000107	.0000369	.0001151
50				.0000002	.0000011	.0000045	.0000164	.0000538
51				.0000001	.0000004	.0000018	.0000070	.0000243
52					.0000002	.0000007	.0000029	.0000107
53					.0000001	.0000003	.0000012	.0000045
54						.0000001	.0000005	.0000019
55							.0000002	.0000007
56							.0000001	.0000003
57								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999965	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999805	.9999960	.9999907	.9999996	.9999999	1.0000000	1.0000000	1.0000000
14	.9999653	.9999875	.9999956	.9999985	.9999995	.9999999	1.0000000	1.0000000
15	.9999036	.9999633	.9999866	.9999953	.9999984	.9999995	.9999998	1.0000000
16	.9997510	.9999006	.9999619	.9999859	.9999950	.9999983	.9999994	.9999998
17	.9994016	.9997401	.9998990	.9999609	.9999854	.9999948	.9999982	.9999994
18	.9986548	.9994078	.9997498	.9999085	.9999604	.9999852	.9999947	.9999981
19	.9971612	.9986802	.9994188	.9997529	.9998991	.9999604	.9999851	.9999946
20	.9943574	.9972644	.9987293	.9994340	.9997581	.9999007	.9999609	.9999852
21	.9894041	.9946131	.9973777	.9987767	.9994528	.9997651	.9999032	.9999617
22	.9811485	.9899553	.9948782	.9974987	.9988292	.9994744	.9997736	.9999064
23	.9681397	.9822191	.9905080	.9951493	.9976253	.9988856	.9994984	.9997833
24	.9487208	.9700467	.9832694	.9910575	.9954230	.9977554	.9989447	.9995241
25	.9212106	.9518702	.9718909	.9842948	.9916002	.9956968	.9978874	.9990056
26	.8841636	.9260695	.9548886	.9736699	.9852919	.9921327	.9959684	.9980199
27	.8366675	.8912036	.9307021	.9577779	.9753818	.9862576	.9926524	.9962357
28	.7786166	.8462863	.8979611	.9351170	.9605399	.9770254	.9871897	.9931571
29	.7108906	.7910502	.8554396	.9042731	.9393223	.9631770	.9786000	.9880066
30	.6353800	.7261361	.8029093	.8641523	.9103349	.9433255	.9656917	.9801053
31	.5546354	.6531517	.7407364	.8142243	.8724471	.9161005	.9471337	.9680865
32	.4725586	.5745670	.6702665	.7547223	.8250227	.8803441	.9215029	.9507538
33	.3919959	.4934610	.5937028	.6867494	.7681219	.8353235	.8878622	.9267539
34	.3163158	.4131528	.5138974	.6122540	.7026241	.7809611	.8451678	.8951183
35	.2480553	.3368019	.4340276	.5338633	.6303345	.7179181	.7932634	.8545566
36	.1889963	.2670543	.3572214	.4546016	.5533589	.6476575	.7326338	.8050505
37	.1395970	.2052895	.2862019	.3775417	.4748591	.5723847	.6645353	.7468000
38	.1000688	.1540120	.2230180	.3054571	.3977339	.4947868	.5909420	.6808801
39	.0695558	.1118829	.1688994	.2405388	.3247823	.4177784	.5143735	.6090330
40	.0468686	.0786629	.1242472	.1842208	.2583117	.3441433	.4376343	.5336097
41	.0306060	.0539193	.0887396	.1371326	.1999393	.2762992	.3635087	.4572992
42	.0193691	.0357502	.0615127	.0991686	.1508103	.2160197	.2944663	.3828499
43	.0118777	.0229827	.0413783	.0696411	.1101316	.1643516	.2324281	.3127799
44	.0070578	.0143239	.0269936	.0474763	.0782969	.1216095	.1786283	.2491322
45	.0040635	.0086542	.0170626	.0314125	.0540642	.0874711	.1335825	.1933129
46	.0022670	.0050685	.0104848	.0201670	.0363481	.0611352	.0971541	.1460306
47	.0012255	.0028774	.0062399	.0125627	.0235924	.0415075	.0686908	.1073341
48	.0006420	.0015835	.0036013	.0075915	.0149037	.0273676	.0471964	.0767257
49	.0003250	.0008447	.0020154	.0044500	.0091367	.0175201	.0315059	.0533192
50	.0001603	.0004368	.0010937	.0025302	.0054352	.0108884	.0204249	.0360102
51	.0000765	.0002190	.0005755	.0013954	.0031371	.0065682	.0128591	.0236291

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 125$$

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
53	.0000353	.0001054	.0002916	.0007464	.0017567	.0038453	.0070604	.0150610
53	.0000158	.0000501	.0001453	.0003872	.0009544	.0021847	.0046644	.0093230
54	.0000069	.0000229	.0000697	.0001948	.0005030	.0012045	.0026867	.0056038
55	.0000028	.0000101	.0000324	.0000951	.0002571	.0006443	.0015020	.0032702
56	.0000012	.0000044	.0000146	.0000450	.0001275	.0003344	.0008149	.0018526
57	.0000005	.0000018	.0000064	.0000207	.0000613	.0001684	.0004290	.0010107
58	.0000002	.0000007	.0000027	.0000092	.0000286	.0000823	.0002192	.0005436
59	.0000001	.0000003	.0000011	.0000040	.0000130	.0000390	.0001086	.0002616
60		.0000001	.0000004	.0000017	.0000057	.0000179	.0000522	.0001415
61			.0000002	.0000007	.0000024	.0000080	.0000244	.0000690
62			.0000001	.0000003	.0000010	.0000035	.0000110	.0000326
63				.0000001	.0000004	.0000014	.0000048	.0000150
64					.0000002	.0000006	.0000021	.0000067
65					.0000001	.0000002	.0000009	.0000029
66						.0000001	.0000003	.0000012
67							.0000001	.0000005
68								.0000002
69								.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999946	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
21	.9999854	.9999947	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000
22	.9999628	.9999858	.9999948	.9999982	.9999994	.9999998	.9999999	1.0000000
23	.9999102	.9999642	.9999863	.9999950	.9999982	.9999994	.9999998	.9999999
24	.9997941	.9999145	.9999659	.9999870	.9999952	.9999983	.9999994	.9999998
25	.9995511	.9998056	.9999192	.9999678	.9999877	.9999955	.9999984	.9999995
26	.9990675	.9995788	.9998175	.9999241	.9999697	.9999884	.9999957	.9999985
27	.9981515	.9991696	.9996070	.9998298	.9999293	.9999718	.9999892	.9999960
28	.9964971	.9982811	.9991913	.9996351	.9998421	.9999345	.9999735	.9999901
29	.9936452	.9967512	.9984079	.9992519	.9996630	.9998544	.9999397	.9999761
30	.9889467	.9941150	.9969969	.9985310	.9993141	.9996903	.9998665	.9999449
31	.9815415	.9897693	.9945656	.9972332	.9986498	.9993684	.9997168	.9998783
32	.9703640	.9829089	.9905538	.9949962	.9974595	.9987638	.9994295	.9997423
33	.9541922	.9725272	.9842082	.9912998	.9954061	.9976752	.9988725	.9994761
34	.9317448	.9574552	.9745788	.9854403	.9920074	.9957949	.9978799	.9989758
35	.9010280	.9364457	.9605486	.9765217	.9866063	.9926766	.9961626	.9980733
36	.8615166	.9083057	.9409063	.9634782	.9783589	.9877074	.9933079	.9965090
37	.8163422	.8720648	.9144649	.9451359	.9660496	.9800933	.9887451	.9939018
38	.7604522	.8271570	.8802174	.9203179	.9491428	.9688680	.9817281	.9897210
39	.6967033	.7735828	.8375120	.8879892	.9258765	.9529354	.9713389	.9832663
40	.6366601	.7120161	.7862150	.8474230	.8953944	.9311515	.9560214	.9736671
41	.5524875	.6438264	.7268289	.7983632	.8569048	.9024460	.9361534	.9599082
42	.4767488	.5709999	.6605348	.7411517	.8100408	.8659712	.9091562	.9406918
43	.4021405	.4959666	.5891412	.6767888	.7542941	.8212603	.8746353	.9155366
44	.3312095	.4213563	.5149378	.6069064	.6925916	.7683651	.8330335	.8839091
45	.2661012	.3497263	.4404750	.5336489	.6242911	.7079468	.7812734	.8423718
46	.2081784	.2833058	.3683033	.4594750	.5520877	.6412917	.7228575	.7937270
47	.1589338	.2237986	.3007178	.3869151	.4783395	.5702428	.6579048	.7373273
48	.1179995	.1722717	.2395479	.3183105	.4056378	.4970483	.5881039	.6741877
49	.0852367	.1291375	.1860243	.2556016	.3360584	.4241489	.5155853	.6056614
50	.0590788	.0942193	.1407350	.2001714	.2719357	.3539371	.4427870	.5339348
51	.0400044	.0668773	.1036675	.1527786	.2146934	.2885268	.3719231	.4612518
52	.0271437	.0461636	.0743154	.1135750	.1652545	.2295707	.3053524	.3899940
53	.0175055	.0309785	.0518238	.0821933	.1239347	.1781487	.2447840	.3223904
54	.0109670	.0202039	.0351427	.0578799	.0905101	.1347389	.1914470	.2603142
55	.0066730	.0128031	.0231665	.0396448	.0643363	.0992642	.1459795	.2051353
56	.0039428	.0078815	.0148419	.0264036	.0444926	.0711965	.1084535	.1576481
57	.0022619	.0047123	.0092387	.0170935	.0299247	.0496931	.0784635	.1180754
58	.0012597	.0027360	.0055865	.0107540	.0195678	.0337389	.0552529	.0861395
59	.0006810	.0015423	.0032808	.0065732	.0124365	.0222746	.0378549	.0611781
60	.0003571	.0008440	.0018709	.0039026	.0076803	.0142954	.0252232	.0422808
61	.0001819	.0004483	.0010359	.0022502	.0046077	.0089158	.0163397	.0284228
62	.0000899	.0002311	.0005567	.0012597	.0026840	.0054025	.0102876	.0185783
63	.0000431	.0001156	.0002904	.0006847	.0015191	.0031797	.0062934	.0118035
64	.0000200	.0000561	.0001470	.0003612	.0008344	.0018173	.0037398	.0073871
65	.0000090	.0000264	.0000722	.0001849	.0004449	.0010084	.0021581	.0043708
66	.0000040	.0000121	.0000344	.0000918	.0002302	.0005431	.0012091	.0025453
67	.0000017	.0000053	.0000159	.0000443	.0001156	.0002839	.0006576	.0014398
68	.0000007	.0000023	.0000071	.0000207	.0000563	.0001440	.0003470	.0007899
69	.0000003	.0000010	.0000031	.0000094	.0000266	.0000708	.0001777	.0004307
70	.0000001	.0000004	.0000013	.0000041	.0000122	.0000338	.0000882	.0002174

$$I(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 125

c	.33	.34	.35	.36	.37	.38	.39	.40
71		.0000002	.0000005	.0000016	.0000054	.0000156	.0000425	.0001084
72		.0000001	.0000002	.0000007	.0000023	.0000070	.0000198	.0000529
73			.0000001	.0000003	.0000010	.0000030	.0000090	.0000249
74				.0000001	.0000004	.0000013	.0000039	.0000114
75					.0000002	.0000005	.0000017	.0000050
76					.0000001	.0000002	.0000007	.0000022
77						.0000001	.0000003	.0000009
78							.0000001	.0000004
79								.0000001
80								.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999986	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999964	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999909	.9999967	.9999988	.9999995	.9999999	1.0000000	1.0000000	1.0000000
30	.9999782	.9999917	.9999970	.9999990	.9999997	.9999999	1.0000000	1.0000000
31	.9999490	.9999802	.9999925	.9999973	.9999991	.9999997	.9999999	1.0000000
32	.9998897	.9999547	.9999822	.9999933	.9999976	.9999992	.9999997	.9999999
33	.9997687	.9999005	.9999594	.9999841	.9999941	.9999979	.9999993	.9999998
34	.9995260	.9997899	.9999108	.9999638	.9999859	.9999948	.9999981	.9999994
35	.9990733	.9995731	.9998117	.9999205	.9999679	.9999876	.9999954	.9999984
36	.9982553	.9991649	.9996173	.9998321	.9999296	.9999717	.9999892	.9999960
37	.9968343	.9984260	.9992506	.9996585	.9998511	.9999379	.9999753	.9999906
38	.9944590	.9971388	.9985853	.9993304	.9996968	.9998687	.9999457	.9999785
39	.9906365	.9949804	.9974229	.9987314	.9994043	.9997321	.9998840	.9999527
40	.9847109	.9914936	.9954668	.9976869	.9988705	.9994725	.9997645	.9998995
41	.9758577	.9860651	.9922941	.9956192	.9979315	.9989970	.9995350	.9997940
42	.9631030	.9779156	.9873320	.9930397	.9963388	.9981573	.9991132	.9995921
43	.9453761	.9661127	.9798455	.9885148	.9937325	.9967268	.9983650	.9992194
44	.9215082	.9496152	.9689441	.9816532	.9896165	.9943746	.9970844	.9985553
45	.8908042	.9273514	.9536177	.9716035	.9833403	.9906403	.9949679	.9974128
46	.8522856	.8983316	.9328061	.9573917	.9740073	.9849145	.9915895	.9955145
47	.8057740	.8617850	.9055018	.9379718	.9609452	.9764310	.9863792	.9924671
48	.7511594	.8173016	.8708797	.9123247	.9428578	.9642850	.9786129	.9877389
49	.6889576	.7649570	.8284372	.8795787	.9189098	.9474728	.9674811	.9806466
50	.6229063	.7053923	.7781252	.8391475	.8878910	.9249665	.9518255	.9703588
51	.5520813	.6398302	.7204298	.7908611	.8494392	.8958240	.9308036	.9559243
52	.4797040	.5700125	.6564652	.7350675	.8031736	.8593186	.9033800	.9363300
53	.4081282	.4980650	.5877132	.6726838	.7493050	.8150638	.8687020	.9105907
54	.3396196	.4263040	.5163792	.6051711	.6885909	.7631394	.8265344	.8777655
55	.2751427	.3570191	.4449038	.5344435	.6223740	.7041635	.7765695	.8375883
56	.2191994	.2922511	.3745607	.4627055	.5524274	.6393099	.7193711	.7895938
57	.1697359	.2336249	.3066211	.3922486	.4808911	.5702520	.6559674	.7342154
58	.1281265	.1822338	.2431976	.3252350	.4100304	.4994420	.5872043	.6723351
59	.0942262	.1386034	.1851327	.2635033	.3420750	.4279220	.5171400	.6053365
60	.0674743	.1027249	.1495019	.2094231	.2789278	.3591216	.4458778	.5351674
61	.0470245	.0741458	.1116364	.1608180	.2220954	.2946570	.3763636	.4638893
62	.0318820	.0520936	.0811981	.1200613	.1725470	.2361399	.3106766	.3937777
63	.0210198	.0356096	.0574951	.0866351	.1306986	.1846840	.2505460	.3269725
64	.0134715	.0236730	.0396140	.0603360	.0964609	.1408512	.1972242	.2653062
65	.0083900	.0152993	.0265462	.0409032	.0693228	.1046791	.1514158	.2101623
66	.0050760	.0096087	.0172947	.0296479	.0484653	.0757610	.1132931	.1623927
67	.0029825	.0058626	.0109500	.0194655	.0329863	.0533682	.0825595	.1223063
68	.0017014	.0034738	.0067351	.0124204	.0218195	.0365698	.0585595	.0897217
69	.0009420	.0019983	.0040231	.0076980	.0140266	.0243644	.0404063	.0640669
70	.0005061	.0011157	.0023330	.0046344	.0087595	.0157754	.0271070	.0445040
71	.0002638	.0006044	.0013130	.0027081	.0053119	.0098222	.0176735	.0300576
72	.0001333	.0003176	.0007169	.0015357	.0031268	.0060597	.0111925	.0197275
73	.0000653	.0001618	.0003706	.0008448	.0017860	.0035920	.0068820	.0125760
74	.0000310	.0000790	.0001949	.0004507	.0009805	.0020659	.0041068	.0077631
75	.0000143	.0000383	.0000970	.0002331	.0005316	.0011521	.0023774	.0046743
76	.0000064	.0000177	.0000468	.0001168	.0002768	.0006231	.0013346	.0027228
77	.0000027	.0000080	.0000218	.0000567	.0001396	.0003265	.0007262	.0015578
78	.0000011	.0000035	.0000099	.0000267	.0000682	.0001658	.0003826	.0008417
79	.0000005	.0000015	.0000043	.0000121	.0000323	.0000815	.0001955	.0004462
80	.0000002	.0000006	.0000018	.0000053	.0000148	.0000381	.0000966	.0002291
81	.0000001	.0000002	.0000008	.0000023	.0000065	.0000173	.0000462	.0001138
82		.0000001	.0000003	.0000009	.0000028	.0000070	.0000214	.0000547
83			.0000001	.0000004	.0000012	.0000034	.0000096	.0000254

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 125

c	.41	.42	.43	.44	.45	.46	.47	.48
84				.0000001	.0000005	.0000014	.0000041	.0000114
85				.0000001	.0000002	.0000006	.0000017	.0000049
86					.0000001	.0000002	.0000007	.0000021
87						.0000001	.0000003	.0000008
88							.0000001	.0000003
89								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	.9999999	1.0000000
34	.9999998	.9999999
35	.9999995	.9999998
36	.9999986	.9999995
37	.9999966	.9999988
38	.9999919	.9999971
39	.9999815	.9999931
40	.9999591	.9999841
41	.9999129	.9999649
42	.9998209	.9999249
43	.9996440	.9998451
44	.9993161	.9996910
45	.9987289	.9994038
46	.9977134	.9988868
47	.9960166	.9979876
48	.9932764	.9964763
49	.9889981	.9940305
50	.9835388	.9901613
51	.9711057	.9843953
52	.9507774	.9756689
53	.9415541	.9633928
54	.9174383	.9464843
55	.8865450	.9239396
56	.8483384	.8948364
57	.8032109	.8594574
58	.7486901	.8144197
59	.6884022	.7627892
60	.6286246	.7041580
61	.5531066	.6396637
62	.4819351	.5709403
63	.4113487	.5000000
64	.3435305	.4290597
65	.2804080	.3603363
66	.2234930	.2958420
67	.1737812	.2372108
68	.1317818	.1855803
69	.0972545	.1414426
70	.0698980	.1051636
71	.0488711	.0760604
72	.0332215	.0535157
73	.0219445	.0366072
74	.0140782	.0243311
75	.0087678	.0157047
76	.0052974	.0098387
77	.0031042	.0059795
78	.0017632	.0035237
79	.0009704	.0020124
80	.0005178	.0011132

$$B(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 125$$

$\mathcal{N}$	.49	.50
81	.0002669	.0005962
82	.0001338	.0003090
83	.0000643	.0001549
84	.0000300	.0000751
85	.0000135	.0000351
86	.0000059	.0000159
87	.0000025	.0000069
88	.0000010	.0000029
89	.0000004	.0000012
90	.0000001	.0000005
91	.0000001	.0000002
92		.0000001

$$P(c;n,p) = \sum_{i=c}^{n} \binom{n}{i} p^i (1-p)^{n-i} \qquad n = 126$$

c \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.7181393	.9315694	.9784604	.9941632	.9984398	.9995887	.9998931	.9999786
2	.3594075	.7198907	.8945224	.9635800	.9880934	.9962812	.9988796	.9996728
3	.1389354	.4626475	.7328711	.8837199	.9540590	.9830863	.9941116	.9980430
4	.0503814	.2456532	.5248571	.7462863	.8800193	.9482742	.9792780	.9931854
5	.0090124	.1094782	.3276000	.5701997	.7601920	.8799461	.9449453	.9765885
6	.0017739	.0416686	.1787420	.3911782	.6063084	.7735287	.8818913	.9432900
7	.0002994	.0137606	.0858976	.2407504	.4429759	.6365447	.7861808	.8850127
8	.0000441	.0039969	.0366723	.1333021	.2956082	.4866533	.6626821	.7981398
9	.0000058	.0010329	.0140261	.0667064	.1802348	.3443368	.5244106	.6857715
10	.0000007	.0002398	.0048431	.0303855	.1006204	.2252340	.3879564	.5576608
11	.0000001	.0000504	.0015202	.0125898	.0515947	.1362875	.2677886	.4273280
12		.0000097	.0004364	.0047968	.0243842	.0764163	.1784061	.3078020
13		.0000017	.0001152	.0016650	.0106597	.0397930	.1036043	.2082019
14		.0000003	.0000281	.0005481	.0043253	.0192935	.0801917	.1322527
15			.0000064	.0001657	.0016343	.0087382	.0306083	.0769467
16			.0000013	.0000467	.0005768	.0036987	.0150968	.0443364
17			.0000003	.0000123	.0001907	.0014698	.0070002	.0234574
18				.0000030	.0000592	.0005493	.0030569	.0117096
19				.0000007	.0000173	.0001934	.0012596	.0055236
20				.0000002	.0000048	.0000643	.0004906	.0024660
21					.0000012	.0000202	.0001809	.0010435
22					.0000003	.0000060	.0000633	.0004192
23					.0000001	.0000017	.0000210	.0001601
24						.0000005	.0000066	.0000588
25						.0000001	.0000020	.0000201
26							.0000006	.0000067
27							.0000002	.0000021
28								.0000006
29								.0000002
30								.0000001

c \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999931	.9999983	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999070	.9999743	.9999930	.9999982	.9999995	.9999999	1.0000000	1.0000000
3	.9993751	.9998074	.9999425	.9999834	.9999953	.9999987	.9999997	.9999999
4	.9972005	.9990411	.9996845	.9998999	.9999693	.9999909	.9999974	.9999993
5	.9905873	.9964231	.9987038	.9995499	.9998498	.9999516	.9999850	.9999955
6	.9746282	.9893252	.9957468	.9983856	.9994139	.9997958	.9999315	.9999778
7	.9427978	.9734206	.9883743	.9951835	.9981005	.9993841	.9997413	.9999101
8	.8880310	.9431263	.9747549	.9877662	.9947362	.9978561	.9991659	.9996890
9	.8094376	.8930564	.9440590	.9725149	.9872583	.9944985	.9976554	.9990686
10	.7064879	.8201151	.8975057	.9453691	.9736082	.9870181	.9941404	.9974988
11	.5873603	.7252915	.8302152	.9030591	.9469956	.9729613	.9869445	.9940117
12	.4631154	.6141650	.7435109	.8397786	.9066365	.9488300	.9735159	.9870087
13	.3453558	.4988771	.6386288	.7583894	.8488485	.9111832	.9508057	.9742853
14	.2438845	.3906080	.5260376	.6610637	.7731125	.8574406	.9156615	.9588788
15	.1616958	.2772819	.4137174	.5539424	.6817764	.7868254	.8656031	.9300458
16	.1014900	.1914540	.3100631	.4448733	.5796710	.7009983	.7996439	.8733570
17	.0601818	.1253418	.2211654	.3416915	.4742337	.6040558	.7188923	.8116680
18	.0337487	.0778092	.1501066	.2506488	.3720955	.5019476	.6256846	.7356833
19	.0179135	.0458878	.0969087	.1754696	.2796753	.4018905	.5281489	.6479178
20	.0090130	.0256290	.0595347	.1171966	.2011769	.3081488	.4293081	.5589573
21	.0043035	.0136819	.0348218	.0746839	.1384233	.2270289	.3359905	.4561886
22	.0019585	.0068878	.0194043	.0454319	.0910919	.1603723	.2528678	.3631503
23	.0008488	.0033166	.0103096	.0263774	.0573368	.1085830	.1888578	.2785499
24	.0003465	.0015225	.0052270	.0146346	.0345297	.0704611	.1369931	.2057825
25	.0001358	.0006669	.0025310	.0077623	.0199039	.0438294	.0966838	.1461722
26	.0000508	.0002790	.0011714	.0039389	.0109878	.0261377	.0648810	.0998933
27	.0000182	.0001116	.0005187	.0019135	.0058114	.0149518	.0333588	.0656503
28	.0000062	.0000427	.0002199	.0008906	.0029470	.0082064	.0196693	.0414989
29	.0000020	.0000157	.0000893	.0003974	.0014337	.0043243	.0111731	.0258837
30	.0000006	.0000058	.0000348	.0001701	.0006695	.0021887	.0060948	.0157516
31	.0000002	.0000019	.0000136	.0000699	.0003003	.0010646	.0031967	.0093081
32	.0000001	.0000006	.0000047	.0000276	.0001294	.0004979	.0016130	.0054978
33		.0000002	.0000016	.0000105	.0000537	.0002240	.0007834	.0032465
34		.0000001	.0000005	.0000038	.0000214	.0000970	.0003663	.0018793
35			.0000002	.0000013	.0000082	.0000404	.0001650	.0010718
36			.0000001	.0000005	.0000030	.0000163	.0000716	.0006667
37				.0000001	.0000011	.0000063	.0000300	.0003801
38					.0000004	.0000023	.0000121	.0002088
39					.0000001	.0000008	.0000047	.0001119
40						.0000003	.0000018	.0000589
41						.0000001	.0000006	.0000308
42							.0000002	.0000159
43							.0000001	.0000081
44								.0000041
45								.0000021

c \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999931	.9999979	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999699	.9999903	.9999970	.9999991	.9999997	.9999999	1.0000000	1.0000000
8	.9998887	.9999616	.9999873	.9999959	.9999987	.9999996	.9999999	1.0000000
9	.9996410	.9998681	.9999534	.9999841	.9999948	.9999983	.9999998	.9999998
10	.9989761	.9995987	.9998491	.9999454	.9999810	.9999936	.9999979	.9999994
11	.9973897	.9986070	.9995639	.9998323	.9999388	.9999781	.9999935	.9999978
12	.9939410	.9973058	.9989551	.9995341	.9998181	.9999318	.9999754	.9999918
13	.9871855	.9939375	.9978640	.9988196	.9995123	.9998067	.9999364	.9999731
14	.9750519	.9874536	.9959911	.9978533	.9987994	.9994979	.9997881	.9999381
15	.9549989	.9759656	.9927945	.9960926	.9973698	.9987930	.9994888	.9997983

$$I(x,n) = \sum_{k=0}^{n} \binom{n}{k} p^k (1-p)^{n-k}$$

n = 126

x	.17	.18	.19	.20	.21	.22	.23	.24
16	.9243162	.9571364	.9769416	.9881927	.9942337	.9973096	.9987989	.9994868
17	.8807267	.9284601	.9592805	.9779601	.9886349	.9944070	.9973692	.9988156
18	.8329574	.8877338	.9324745	.9614073	.9790047	.9891090	.9946060	.9974452
19	.7513066	.8335951	.8943983	.9363482	.9635030	.9800622	.9896079	.9948348
20	.6670880	.7660433	.8436300	.9007379	.9400800	.9655560	.9811817	.9901810
21	.5764794	.6867112	.7799189	.8531091	.9067690	.9436685	.9675603	.9821741
22	.4819767	.5968100	.7044044	.7930062	.8620731	.9125064	.9471133	.9695069
23	.3895958	.5067185	.6200333	.7212924	.8053675	.8705574	.9179638	.9504152
24	.3040383	.4153105	.5304599	.6403246	.7378064	.8170572	.8785930	.9231538
25	.2288319	.3291975	.4402874	.5553457	.6594510	.7528968	.8281285	.8868074
26	.1659846	.2520739	.3539891	.4645272	.5751186	.6777785	.7666140	.8386050
27	.1159806	.1863090	.2753535	.3783678	.4880354	.5961193	.6958433	.7802100
28	.0780481	.1328416	.2070378	.2995907	.4032994	.5100214	.6162658	.7119118
29	.0505780	.0913439	.1503781	.2280734	.3217185	.4257579	.5388970	.6356941
30	.0315646	.0605608	.1054657	.1684984	.2493328	.3446806	.4687240	.5542756
31	.0189731	.0387124	.0714025	.1203420	.1871170	.2707409	.3674297	.4711839
32	.0109865	.0238602	.0466580	.0830596	.1359020	.2051582	.2922316	.3899361
33	.0061308	.0141814	.0294200	.0553890	.0954859	.1520807	.2255482	.3137469
34	.0032969	.0081395	.0179150	.0356843	.0648826	.1086337	.1688108	.2452321
35	.0017096	.0044957	.0105281	.0222097	.0426300	.0751147	.1224544	.1860320
36	.0008550	.0023991	.0059735	.0133550	.0270837	.0502639	.0860573	.1368997
37	.0004185	.0012356	.0032730	.0077593	.0166353	.0325463	.0585757	.0976801
38	.0001921	.0006144	.0017321	.0043565	.0098800	.0203907	.0386083	.0675540
39	.0000864	.0003951	.0008856	.0023641	.0056743	.0123608	.0246393	.0452724
40	.0000375	.0001369	.0004375	.0012401	.0031517	.0072504	.0152844	.0293957
41	.0000157	.0000614	.0002089	.0006290	.0016932	.0041154	.0091077	.0184909
42	.0000064	.0000266	.0000965	.0003065	.0008800	.0022606	.0053753	.0112676
43	.0000025	.0000111	.0000431	.0001464	.0004425	.0012019	.0030586	.0066513
44	.0000009	.0000045	.0000186	.0000670	.0002153	.0006186	.0016067	.0038035
45	.0000003	.0000018	.0000078	.0000298	.0001014	.0003082	.0008450	.0021071
46	.0000001	.0000007	.0000031	.0000128	.0000462	.0001487	.0004305	.0011309
47		.0000002	.0000012	.0000053	.0000204	.0000695	.0002124	.0005881
48		.0000001	.0000005	.0000021	.0000087	.0000314	.0001015	.0002964
49			.0000002	.0000008	.0000036	.0000138	.0000470	.0001447
50			.0000001	.0000003	.0000014	.0000058	.0000211	.0000685
51				.0000001	.0000006	.0000024	.0000092	.0000314
52					.0000002	.0000010	.0000039	.0000140
53					.0000001	.0000004	.0000016	.0000060
54						.0000001	.0000006	.0000025
55						.0000001	.0000002	.0000010
56							.0000001	.0000004
57								.0000002
58								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999971	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999905	.9999968	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000
14	.9999711	.9999897	.9999965	.9999988	.9999996	.9999999	1.0000000	1.0000000
15	.9999190	.9999696	.9999890	.9999962	.9999987	.9999996	.9999999	1.0000000
16	.9997892	.9999169	.9999685	.9999885	.9999960	.9999986	.9999996	.9999999
17	.9994890	.9997885	.9999159	.9999679	.9999882	.9999958	.9999986	.9999995
18	.9988415	.9994965	.9997901	.9999160	.9999677	.9999881	.9999958	.9999985
19	.9975346	.9988753	.9995082	.9997937	.9999169	.9999678	.9999880	.9999957
20	.9950584	.9976346	.9989155	.9995733	.9997990	.9999186	.9999684	.9999882
21	.9906424	.9953024	.9977426	.9989608	.9995413	.9998058	.9999210	.9999698
22	.9832184	.9911663	.9955531	.9978566	.9990100	.9995616	.9998138	.9999241
23	.9713919	.9842305	.9916879	.9958071	.9979744	.9990622	.9995837	.9998027
24	.9535755	.9738115	.9852238	.9922038	.9960617	.9980944	.9991165	.9994071
25	.9288882	.9595961	.9749631	.9861884	.9927088	.9963144	.9982158	.9987715
26	.8954554	.9397777	.9594793	.9764449	.9871213	.9932019	.9965433	.9976353
27	.8485415	.9002687	.9372325	.9622276	.9782557	.9880201	.9936803	.9956064
28	.7931293	.8579648	.9047574	.9411621	.9644440	.9797950	.9888038	.9914423
29	.7278221	.8054116	.8669042	.9129094	.9454754	.9673315	.9818628	.9847691
30	.6542576	.7430138	.8175862	.8753862	.9187412	.9492809	.9696933	.9736593
31	.5749715	.6721277	.7575231	.8282042	.8834345	.9242600	.9528867	.9719328
32	.4931278	.5949996	.6892933	.7713628	.8387758	.8910710	.9295036	.9563003
33	.4121366	.5145493	.6143750	.7057818	.7846232	.8488339	.8983156	.9344611
34	.3352358	.4340331	.5354449	.6331127	.7216184	.7978716	.8584086	.9051863
35	.2651804	.3566531	.4555925	.5553127	.6512275	.7368268	.8093536	.8676043
36	.2036860	.2851886	.3779591	.4767949	.5756528	.6687330	.7514290	.8208924
37	.1519218	.2217183	.3053772	.3993185	.4976241	.5949663	.6856458	.7654496
38	.1099508	.1674741	.2400776	.3256408	.4201092	.5180662	.6137559	.7031470
39	.0771840	.1228368	.1838114	.2587159	.3459283	.4400767	.5381097	.6380840
40	.0525369	.0874481	.1363033	.1999898	.2775882	.3662380	.4614835	.5577458
41	.0346712	.0604047	.0983367	.1503173	.2168673	.2966585	.3864076	.4817186
42	.0221783	.0404742	.0688640	.1097906	.1648447	.2341036	.3158694	.4046736
43	.0137506	.0263022	.0468102	.0779088	.1218415	.1798520	.2516599	.3358033
44	.0082628	.0165758	.0308759	.0535885	.0875290	.1344381	.1953063	.2694955
45	.0048131	.0101383	.0197586	.0359104	.0610917	.0977128	.1475467	.2111751
46	.0027161	.0060008	.0122658	.0233163	.0414147	.0690367	.1084469	.1611610
47	.0014859	.0034471	.0073859	.0146921	.0272625	.0473961	.0775145	.1197170
48	.0007879	.0019199	.0043137	.0089835	.0174234	.0316096	.0538597	.0865804
49	.0004049	.0010368	.0024436	.0053296	.0108091	.0204745	.0363686	.0608092
50	.0002017	.0005429	.0013425	.0030678	.0065086	.0128779	.0238594	.0415490

$$1 - \cdots = \sum_{n=126} \cdots$$

x	.25	.26	.27	.28	.29	.30	.31	.32
51	.0000024	.0002756	.0307154	.0017131	.0030035	.0070643	.0159045	.0375911
52	.0000456	.0001357	.0003697	.0009881	.0021570	.0046682	.0094100	.0178028
53	.0000067	.0000658	.0001853	.0004870	.0011070	.0026029	.0056558	.0111591
54	.0000001	.0000300	.0000901	.0002487	.0006329	.0014985	.0032998	.0067939
55	.0000030	.0000135	.0000495	.0001310	.0003584	.0008124	.0018693	.0040170
56	.0000015	.0000059	.0000194	.0000590	.0001651	.0004274	.0010279	.0023063
57	.0000004	.0000025	.0000084	.0000275	.0000805	.0002182	.0005487	.0012854
58	.0000001	.0000010	.0000037	.0000124	.0000381	.0001081	.0002848	.0006957
59	.0000001	.0000004	.0000015	.0000054	.0000175	.0000520	.0001429	.0003454
60		.0000002	.0000006	.0000023	.0000078	.0000243	.0000697	.0001663
61		.0000001	.0000002	.0000010	.0000034	.0000110	.0000330	.0000923
62			.0000001	.0000004	.0000014	.0000048	.0000158	.0000443
63				.0000001	.0000006	.0000021	.0000068	.0000206
64				.0000001	.0000002	.0000008	.0000029	.0000093
65					.0000001	.0000003	.0000014	.0000041
66						.0000001	.0000005	.0000017
67							.0000002	.0000007
68							.0000001	.0000003
69								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999912	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999999	.9999999	.9999999	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999884	.9999951	.9999986	.9999995	.9999998	1.0000000	1.0000000	1.0000000
22	.9995783	.9999668	.9999900	.9999987	.9999995	.9999999	1.0000000	1.0000000
23	.9999275	.9999711	.9999889	.9999967	.9999997	.9999999	.9999999	1.0000000
24	.9998324	.9999334	.9999791	.9999938	.9999990	.9999999	.9999999	.9999999
25	.9996311	.9998426	.9999355	.9999747	.9999964	.9999995	.9999998	.9999999
26	.9993271	.9996535	.9998531	.9999390	.9999864	.9999911	.9999988	.9999999
27	.9984537	.9993825	.9996807	.9998637	.9999442	.9999781	.9999918	.9999990
28	.9970430	.9986696	.9993358	.9997052	.9998744	.9999487	.9999799	.9999985
29	.9945863	.9972714	.9986821	.9993899	.9997293	.9998840	.9999531	.9999917
30	.9904972	.9950113	.9974907	.9987905	.9991413	.9997527	.9998981	.9999873
31	.9838852	.9912469	.9954166	.9977004	.9988945	.9994907	.9997788	.9999049
32	.9740536	.9853414	.9918579	.9958015	.9978009	.9988938	.9995370	.9997967
33	.9605280	.9770559	.9864291	.9926305	.9961658	.9980868	.9990856	.9995986
34	.9419594	.9653797	.9785490	.9874457	.9933849	.9965094	.9982670	.9991759
35	.9117005	.9433005	.9654591	.9787334	.9886047	.9938418	.9968323	.9984343
36	.8761594	.9170733	.9477811	.9681110	.9814104	.9895957	.9944818	.9971347
37	.8319097	.8841869	.9237194	.9517391	.9707300	.9829867	.9905246	.9949447
38	.7788559	.8434277	.8930040	.9285524	.9554783	.9731337	.9844045	.9913933
39	.7177405	.7917980	.8554599	.8976276	.9344850	.9589878	.9753907	.9858408
40	.6497744	.7310488	.8041690	.8600269	.9066728	.9394294	.9628002	.9775068
41	.5769644	.6630133	.7476140	.8160347	.8711460	.9133541	.9440969	.9654117
42	.5017425	.5857609	.6837377	.7617479	.8273805	.8790317	.9196851	.9484903
43	.4267612	.5014779	.6141300	.6999594	.7755614	.8382504	.8880944	.9254797
44	.3546167	.4167219	.5409690	.6320640	.7156806	.7884653	.8486482	.8959601
45	.2875670	.3340805	.4665190	.5600316	.6495693	.7309057	.8030698	.8585867
46	.2274269	.2550887	.3935634	.4861781	.5788029	.6666406	.7436397	.8131849
47	.1758505	.1840310	.3243737	.4130369	.5056263	.5972414	.6833364	.7598078
48	.1331078	.1297908	.2609573	.3430081	.4324744	.5248422	.6153263	.6994075
49	.0986484	.1438031	.2047575	.2781768	.3617656	.4510507	.5430678	.6330479
50	.0709469	.1060917	.1565863	.2201263	.2956611	.3806176	.4713417	.5626354
51	.0471591	.0761136	.1166412	.1696400	.2358731	.3133827	.3995366	.4903850
52	.0316014	.0532063	.0845887	.1276883	.1835409	.2511740	.3313150	.4194971
53	.0206861	.0361414	.0596958	.0934907	.1390230	.1976891	.2684037	.3514348
54	.0131247	.0238672	.0409811	.0664327	.1028773	.1512346	.2128444	.2885147
55	.0080900	.0153194	.0275583	.0462094	.0740206	.1127446	.1657118	.2328069
56	.0048438	.0095542	.0177555	.0311705	.0518347	.0818628	.1270430	.1846430
57	.0028166	.0057898	.0111998	.0204451	.0353148	.0578644	.0961956	.1439044
58	.0015905	.0034079	.0068647	.0130362	.0233999	.0390015	.0643051	.1098138
59	.0008720	.0019483	.0040878	.0080782	.0150751	.0266311	.0446401	.0711487
60	.0004641	.0010815	.0023644	.0048640	.0094401	.0173275	.0301496	.0498397
61	.0003398	.0005889	.0013281	.0028450	.0057446	.0109601	.0198043	.0339660
62	.0001203	.0003050	.0007344	.0016163	.0033943	.0067376	.0126479	.0225161
63	.0000585	.0001549	.0003836	.0008917	.0019504	.0040643	.0078518	.0145134
64	.0000276	.0000764	.0001972	.0004776	.0010877	.0023350	.0047357	.0090937
65	.0000127	.0000365	.0000984	.0002483	.0005890	.0013158	.0027756	.0055369
66	.0000056	.0000170	.0000476	.0001253	.0003096	.0007199	.0015792	.0033788
67	.0000024	.0000076	.0000224	.0000614	.0001580	.0003724	.0008727	.0018816
68	.0000010	.0000033	.0000102	.0000293	.0000783	.0001971	.0004681	.0010497
69	.0000004	.0000014	.0000045	.0000134	.0000376	.0000986	.0002437	.0005604
70	.0000002	.0000006	.0000019	.0000060	.0000175	.0000479	.0001231	.0002987

$$\text{Tabular} = \sum_{i=1}^{n} \left(\text{Tabular} \right)^{i}$$

N	.33	.34	.35	.36	.37	.38	.39	.40
71	.0000001	.0000002	.0000008	.0000026	.0000079	.0000225	.0000603	.0001523
72		.0000001	.0000003	.0000011	.0000035	.0000103	.0000287	.0000753
73			.0000001	.0000004	.0000015	.0000046	.0000130	.0000361
74				.0000002	.0000006	.0000020	.0000059	.0000165
75				.0000001	.0000002	.0000008	.0000026	.0000076
76					.0000001	.0000003	.0000011	.0000033
77						.0000001	.0000004	.0000014
78							.0000002	.0000006
79							.0000001	.0000002
80								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999973	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999931	.9999975	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
30	.9999834	.9999938	.9999978	.9999992	.9999998	.9999999	1.0000000	1.0000000
31	.9999615	.9999851	.9999945	.9999980	.9999994	.9999998	.9999999	1.0000000
32	.9999144	.9999655	.9999867	.9999951	.9999983	.9999994	.9999998	.9999999
33	.9998171	.9999233	.9999692	.9999880	.9999957	.9999985	.9999995	.9999998
34	.9996347	.9998364	.9999317	.9999727	.9999896	.9999962	.9999987	.9999996
35	.9993589	.9996641	.9998543	.9999396	.9999760	.9999909	.9999967	.9999989
36	.9985907	.9993363	.9997009	.9998710	.9999466	.9999791	.9999922	.9999972
37	.9974169	.9987363	.9994083	.9997349	.9998864	.9999535	.9999818	.9999932
38	.9954309	.9976794	.9988714	.9994748	.9997662	.9999005	.9999596	.9999843
39	.9923038	.9958869	.9979227	.9989961	.9995359	.9997949	.9999154	.9999651
40	.9871404	.9929581	.9963079	.9981474	.9991107	.9995919	.9998410	.9999251
41	.9794875	.9883451	.9936583	.9966970	.9983541	.9992157	.9996429	.9998447
42	.9683324	.9813384	.9894657	.9943067	.9970555	.9985436	.9993114	.9996820
43	.9526441	.9710699	.9830647	.9905057	.9949054	.9973848	.9987166	.9993983
44	.9313478	.9565443	.9736317	.9846717	.9914687	.9954566	.9976063	.9988741
45	.9034298	.9367022	.9602080	.9760349	.9861646	.9923581	.9956686	.9979612
46	.8680782	.9105199	.9417551	.9636449	.9783567	.9875484	.9921773	.9964857
47	.8249201	.8771346	.9173487	.9465166	.9668636	.9803338	.9858860	.9939299
48	.7736330	.8359847	.8857673	.9236094	.9509971	.9698730	.9748630	.9900084
49	.7151323	.7869417	.8466075	.8939869	.9296314	.9552068	.9586813	.9840309
50	.6503973	.7304095	.7997583	.8569373	.9018044	.9353194	.9391554	.9759970
51	.5811199	.6673663	.7452379	.8121071	.8667435	.9092300	.9406839	.9648529
52	.5093789	.5993359	.6839473	.7596169	.8239931	.8761115	.9162738	.9457353
53	.4374742	.5283839	.6173593	.7001328	.7735459	.8354310	.8850525	.9229455
54	.3677081	.4564441	.5470175	.6348767	.7159166	.7870346	.8463955	.8935736
55	.3021683	.3861191	.4753836	.5655637	.6521752	.7312934	.8000530	.8569914
56	.2435461	.3194536	.4046406	.4943702	.5839034	.6691426	.7462544	.8126318
57	.1900159	.2582479	.3369786	.4232496	.5130884	.6030191	.6857471	.7607970
58	.1451863	.2038180	.2748937	.3547910	.4419486	.5317920	.6198940	.7020376
59	.1081253	.1569281	.2180366	.2906652	.3726590	.4606372	.5503998	.6375115
60	.0784424	.1177938	.1691232	.2326564	.3073440	.3907709	.4793711	.5688630
61	.0554088	.0861490	.1279186	.1817642	.2476700	.3243116	.4090353	.4981023
62	.0380905	.0613556	.0942866	.1384982	.1948437	.2630578	.3415495	.4274306
63	.0254733	.0425329	.0676874	.1028586	.1495309	.2083537	.2788078	.3590390
64	.0165663	.0286864	.0473029	.0744116	.1118683	.1610143	.2223639	.2949061
65	.0104734	.0188162	.0321653	.0524096	.0815349	.1213163	.1729458	.2366314
66	.0064348	.0119988	.0212738	.0359202	.0578622	.0890638	.1312108	.1853281
67	.0038409	.0074360	.0135782	.0239458	.0399609	.0636693	.0970043	.1415478
68	.0022266	.0044771	.0085475	.0155202	.0268446	.0442972	.0698395	.1053623
69	.0012534	.0026180	.0051892	.0097764	.0175334	.0299788	.0489383	.0763018
70	.0006848	.0014864	.0030597	.0059828	.0111297	.0197263	.0333581	.0538948
71	.0003631	.0008192	.0017516	.0035557	.0068633	.0126147	.0221074	.0369919
72	.0001868	.0004381	.0009732	.0020516	.0041101	.0070365	.0124386	.0246860
73	.0000932	.0002273	.0005247	.0011488	.0023894	.0038978	.0068080	.0160087
74	.0000451	.0001143	.0002744	.0006241	.0013479	.0021679	.0036112	.0100837
75	.0000212	.0000558	.0001391	.0003388	.0007376	.0011905	.0019903	.0061665
76	.0000096	.0000264	.0000684	.0001680	.0003914	.0006665	.0010247	.0036595
77	.0000042	.0000121	.0000326	.0000812	.0001813	.0003130	.0004630	.0021066
78	.0000018	.0000054	.0000150	.0000379	.0001004	.0001397	.0002148	.0011756
79	.0000007	.0000023	.0000067	.0000185	.0000485	.0000702	.0001031	.0006360
80	.0000003	.0000010	.0000029	.0000083	.0000227	.0000324	.0000484	.0003333
81	.0000001	.0000004	.0000012	.0000036	.0000103	.0000145	.0000225	.0001691

$$N(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 126$$

x	.41	.42	.43	.44	.45	.46	.47	.48
60		.0000001	.0000005	.0000015	.0000045	.0000125	.0000330	.0000831
61		.0000001	.0000002	.0000006	.0000019	.0000058	.0000151	.0000395
62			.0000001	.0000002	.0000008	.0000023	.0000067	.0000181
63				.0000001	.0000003	.0000010	.0000029	.0000081
64					.0000001	.0000004	.0000012	.0000035
65						.0000001	.0000005	.0000014
66							.0000002	.0000006
67							.0000001	.0000002
68								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	.9999999	1.0000000
34	.9999949	1.0000000
35	.9999996	.9999999
36	.9999990	.9999997
37	.9999976	.9999992
38	.9999942	.9999980
39	.9999866	.9999951
40	.9999701	.9999884
41	.9999355	.9999745
42	.9998640	.9999449
43	.9997307	.9998850
44	.9994768	.9997680
45	.9990166	.9995474
46	.9982110	.9991453
47	.9968481	.9984372
48	.9946191	.9970380
49	.9910945	.9942484
50	.9857039	.9890909
51	.9777379	.9803203
52	.9663083	.9679821
53	.9504835	.9493309
54	.9292551	.9249386
55	.9016097	.8952119
56	.8670035	.8603880
57	.8247395	.8176469
58	.7749153	.7636385
59	.7179433	.7006044
60	.6548556	.6334736
61	.5871704	.5679109
62	.5160091	.4953020
63	.4459360	.4254702
64	.3767614	.3646298
65	.3113380	.3046980
66	.2513814	.2480891
67	.1981400	.1965264
68	.1523309	.1513956
69	.1141435	.1135615
70	.0833087	.0833831
71	.0591743	.0596120
72	.0408898	.0417881
73	.0274709	.0280614
74	.0179386	.0184691
75	.0113696	.0118179
76	.0069976	.0072717
77	.0041789	.0043091
78	.0024903	.0025816
79	.0013589	.0014680
80	.0007393	.0008028

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 126

r	.49	.50
81	.0003895	.0008547
82	.0001987	.0004526
83	.0000980	.0002320
84	.0000468	.0001150
85	.0000216	.0000551
86	.0000096	.0000258
87	.0000041	.0000114
88	.0000017	.0000049
89	.0000007	.0000020
90	.0000003	.0000008
91	.0000001	.0000003
92		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 127

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7209579	.9231380	.9791065	.9943967	.9985178	.9996134	.9999006	.9999748
2	.3629948	.7839243	.8970405	.9647457	.9866107	.9964797	.9989505	.9996967
3	.1352001	.4677924	.7371386	.8669119	.9557607	.9836780	.9944454	.9981734
4	.0393270	.2499971	.5310795	.7517837	.9037213	.9503629	.9803164	.9926540
5	.0093061	.1122017	.3335177	.5772431	.7661834	.8840458	.9473486	.9777755
6	.0018463	.0430248	.1832077	.3983391	.6140026	.7799137	.8863050	.9459486
7	.0003142	.0143188	.0886829	.2467676	.4511425	.6447637	.7980800	.8896749
8	.0000467	.0041922	.0381494	.1376000	.3029766	.4956468	.6713269	.8050896
9	.0000061	.0010522	.0147055	.0693703	.1860035	.3528753	.5340896	.6947609
10	.0000007	.0002557	.0051186	.0317207	.1046011	.2323802	.3995088	.5679096
11	.0000001	.0000542	.0016199	.0132992	.0540460	.1416243	.2762001	.4377491
12		.0000105	.0004690	.0051085	.0257448	.0860086	.1790829	.3173636
13		.0000019	.0001249	.0018095	.0113459	.0493904	.1084204	.2161699
14		.0000003	.0000307	.0005935	.0046420	.0265235	.0613705	.1383986
15			.0000070	.0001810	.0017689	.0093559	.0325335	.0832112
16			.0000015	.0000515	.0006297	.0040008	.0161922	.0471053
17			.0000003	.0000137	.0002100	.0015036	.0075670	.0251877
18			.0000001	.0000034	.0000658	.0006045	.0033330	.0126495
19				.0000008	.0000194	.0002148	.0013854	.0060185
20				.0000002	.0000054	.0000721	.0005444	.0027106
21					.0000014	.0000239	.0002026	.0011573
22					.0000004	.0000079	.0000715	.0004691
23					.0000001	.0000020	.0000240	.0001808
24						.0000005	.0000077	.0000663
25						.0000001	.0000023	.0000230
26							.0000007	.0000077
27							.0000002	.0000025
28								.0000008
29								.0000002
30								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999937	.9999985	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999148	.9999767	.9999936	.9999984	.9999996	.9999999	1.0000000	1.0000000
3	.9994230	.9998241	.9999481	.9999851	.9999959	.9999989	.9999997	.9999999
4	.9973962	.9991178	.9997129	.9999099	.9999727	.9999920	.9999977	.9999994
5	.9911885	.9966849	.9990116	.9995919	.9998653	.9999571	.9999868	.9999961
6	.9760645	.9900350	.9960715	.9985253	.9994706	.9998[illegible]	.9999395	.9999807
7	.9456626	.9750111	.9901852	.9955678	.9982713	.999935[illegible]	997698	.9999210
8	.8936800	.9461557	.9744731	.9385964	.9951736	.998056[illegible]	992522	.9997844
9	.8165850	.8960634	.9471978	.9743369	.9083304	.9944801	.9978819	.9991628
10	.7157533	.8274091	.9026243	.9486266	.9745127	.9880[illegible]	.9946047	.9977485
11	.5980818	.7347738	.8376172	.9072563	.9503253	.97[illegible].9292	.9880265	.9945696
12	.4742974	.6252956	.7521584	.8472523	.9113032	.9582083	.9755308	.9881291
13	.3559542	.5077079	.6500559	.7681561	.8563557	.9154518	.9542182	.9762706
14	.2524163	.3921302	.5304226	.6727428	.7829574	.8649646	.9209331	.9562898
15	.1690334	.2875600	.4260726	.5667969	.6936501	.7967115	.8731119	.9252976
16	.1069085	.2000308	.3214561	.4570616	.5931194	.7130089	.8098378	.8808372
17	.0638990	.1319525	.2309620	.3540734	.4879667	.6176269	.7310050	.8218332
18	.0361249	.0825621	.1579254	.2615739	.3853734	.5162437	.6405157	.7477825
19	.0193384	.0490259	.1027605	.1844911	.2916900	.4153825	.5429293	.6619502
20	.0098140	.0276488	.0636459	.1241894	.2113817	.3211887	.4441342	.5681509
21	.0047274	.0148226	.0375403	.0797854	.1465813	.2383857	.3499884	.4716716
22	.0021641	.0075618	.0211002	.0489333	.0972450	.1697042	.2653363	.3780164
23	.0009486	.0036738	.0113100	.0286628	.0617250	.1158335	.1933593	.2881028
24	.0003912	.0017019	.0057861	.0160437	.0374946	.0757981	.1353788	.2173779
25	.0001548	.0007524	.0028275	.0085670	.0218053	.0475561	.0910302	.1557002
26	.0000585	.0003178	.0013210	.0043977	.0121464	.0286143	.0587905	.1072979
27	.0000211	.0001284	.0005905	.0021565	.0064843	.0165173	.0364707	.0711291
28	.0000073	.0000496	.0002528	.0010133	.0033194	.0091507	.0217367	.0453581
29	.0000024	.0000184	.0001037	.0004566	.0016304	.0048678	.0124505	.0278268
30	.0000008	.0000065	.0000408	.0001974	.0007888	.0024877	.0068563	.0164271
31	.0000002	.0000022	.0000154	.0000820	.0003483	.0012319	.0036313	.0093140
32	.0000001	.0000007	.0000056	.0000327	.0001517	.0005772	.0018506	.0051064
33		.0000002	.0000019	.0000125	.0000635	.0002623	.0009078	.0026907
34		.0000001	.0000007	.0000046	.0000256	.0001148	.0004289	.0013661
35			.0000002	.0000016	.0000099	.0000484	.0001952	.0006685
36			.0000001	.0000006	.0000037	.0000196	.0000756	.0003154
37				.0000002	.0000013	.0000077	.0000282	.0001436
38				.0000001	.0000005	.0000029	.0000148	.0000631
39					.0000002	.0000011	.0000058	.0000267
40					.0000001	.0000004	.0000022	.0000109
41						.0000001	.0000008	.0000043
42							.0000003	.0000017
43							.0000001	.0000006
44								.0000002
45								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999598	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999940	.9999992	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999739	.9999917	.9999974	.9999992	.9999998	.9999999	1.0000000	1.0000000
8	.9999025	.9999668	.9999891	.9999965	.9999989	.9999997	.9999999	1.0000000
9	.9996831	.9998849	.9999598	.9999865	.9999956	.9999986	.9999996	.9999999
10	.9990892	.9996472	.9998689	.9999532	.9999839	.9999947	.9999983	.9999995
11	.9976536	.9990315	.9996173	.9998549	.9999472	.9999815	.9999938	.9999980
12	.9945261	.9975941	.9989026	.9995939	.9998433	.9999420	.9999793	.9999929
13	.9883340	.9945468	.9975663	.9989625	.9995765	.9998312	.9999377	.9999775
14	.9771146	.9886207	.9946130	.9975666	.9989491	.9995654	.9998876	.9999343
15	.9584089	.9780334	.9889719	.9947248	.9975910	.9989479	.9995599	.9998235

$$B(c,n;p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 127$$

n \ p	.17	.18	.19	.20	.21	.22	.23	.24
16	.8295312	.9605856	.9790037	.9893727	.9948713	.9976359	.9989575	.9995597
17	.8981369	.9336234	.9626361	.9800066	.9898107	.9950456	.9976980	.9989755
18	.9397782	.9550649	.9775676	.9896471	.9950271	.9980752	.9992415	.9997741
19	.9674872	.9734401	.9890928	.9948600	.9977584	.9992527	.9997674	.9999537
20	.9830692	.9880026	.9953760	.9978600	.9989968	.9997480	.9999735	.9999249
21	.9920189	.9909909	.9980240	.9992349	.9995643	.9998839	.9999794	.9999614
22	.9960421	.9961322	.9992170	.9997267	.9998592	.9999620	.9999861	.9999871
23	.9983006	.9983949	.9997191	.9999054	.9999637	.9999851	.9999948	.9999972
24	.9993831	.9993639	.9999088	.9999682	.9999888	.9999948	.9999982	.9999995
25	.9997170	.9998979	.9999702	.9999895	.9999965	.9999984	.9999994	.9999998
26	.9998947	.9999562	.9999858	.9999965	.9999989	.9999996	.9999998	.9999999
27	.9999813	.9999867	.9999953	.9999989	.9999997	.9999999	.9999999	1.0000000
28	.9999966	.9999963	.9999985	.9999997	.9999999	1.0000000	1.0000000	1.0000000
29	.9999994	.9999990	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999999	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
34	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
35	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
36	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
37	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
38	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
39	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
40	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
41	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
42	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
43	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
44	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
45	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
46	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
47	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
48		1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
49			1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
50			1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
51				1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
52				1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
53					1.0000000	1.0000000	1.0000000	1.0000000
54						1.0000000	1.0000000	1.0000000
55						1.0000000	1.0000000	1.0000000
56							1.0000000	1.0000000
57								1.0000000
58								1.0000000

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999922	.9999974	.9999993	.9999997	.9999999	1.0000000	1.0000000	1.0000000
14	.9999760	.9999915	.9999971	.9999991	.9999997	.9999999	1.0000000	1.0000000
15	.9999330	.9999748	.9999910	.9999969	.9999990	.9999998	.9999999	1.0000000
16	.9998216	.9999306	.9999741	.9999907	.9999968	.9999995	.9999997	.9999999
17	.9995640	.9998219	.9999301	.9999737	.9999905	.9999983	.9999989	.9999996
18	.9990034	.9995724	.9998241	.9999305	.9999735	.9999964	.9999986	.9999997
19	.9978613	.9990368	.9995043	.9998279	.9999316	.9999879	.9999954	.9999986
20	.9956774	.9979572	.9990755	.9996990	.9998332	.9999552	.9999845	.9999966
21	.9917464	.9959088	.9980593	.9994103	.9996160	.9998596	.9999357	.9999853
22	.9850699	.9922417	.9963443	.9988657	.9991641	.9996345	.9998475	.9999505
23	.9743470	.9860338	.9932715	.9978810	.9982747	.9992120	.9996550	.9998551
24	.9580296	.9760765	.9869691	.9959213	.9966164	.9983848	.9992612	.9996761
25	.9344600	.9609161	.9777335	.9928725	.9936811	.9968484	.9984945	.9993109
26	.9030511	.9389704	.9636599	.9879171	.9886716	.9941557	.9970954	.9986029
27	.8597685	.9087210	.9432393	.9800267	.9816717	.9895241	.9945241	.9972958
28	.8067824	.8689638	.9149856	.9677264	.9688733	.9822026	.9903703	.9949946
29	.7441489	.8190754	.8776646	.9509041	.9510922	.9710706	.9836251	.9911277
30	.6726408	.7592374	.8305416	.9285927	.9264941	.9546961	.9730798	.9849155
31	.5947230	.6905581	.7736068	.8414151	.8936735	.9317219	.9580967	.9755651
32	.5135887	.6150529	.7077154	.7872928	.8517268	.9010301	.9367524	.9613026
33	.4323844	.5354664	.6346030	.7241501	.8003274	.8615080	.9079839	.9414496
34	.3544610	.4549674	.5567560	.6534601	.7398898	.8137403	.8707757	.9145544
35	.2836493	.3767719	.4771526	.5774567	.6716409	.7549603	.8245508	.8795626
36	.2190446	.3037694	.3989201	.4989199	.5975695	.6891617	.7693056	.8358083
37	.1648688	.2382206	.3249743	.4220679	.5220524	.6170962	.7060386	.7831886
38	.1204436	.1815776	.2577085	.3496214	.4484421	.5411367	.6360418	.7222869
39	.0853797	.1344423	.1987843	.2774549	.3784452	.4640356	.5615600	.6544090
40	.0587092	.0966491	.1490495	.2164331	.2974097	.3882284	.4851962	.5815144
41	.0391381	.0671360	.1065803	.1642256	.2344764	.3175566	.4097177	.5060471
42	.0253015	.0456561	.0766189	.1211438	.1799313	.2528482	.3377510	.4306889
43	.0158575	.0299869	.0527648	.0868379	.1343124	.1961277	.2715649	.3580731
44	.0096347	.0191042	.0351787	.0604658	.0974796	.1480585	.2131259	.2905244
45	.0056747	.0118045	.0227602	.0407866	.0687585	.1087281	.1633521	.2299389
46	.0033401	.0070739	.0142888	.0256427	.0471211	.0776195	.1215678	.1771651
47	.0019334	.0041111	.0087035	.0171669	.0313667	.0538056	.0881035	.1335791
48	.0009824	.0023175	.0051432	.0105819	.0202767	.0363455	.0611527	.0971433
49	.0005607	.0012666	.0029485	.0063527	.0137773	.0238150	.0417960	.0690366
50	.0002525	.0006719	.0016398	.0037011	.0077558	.0151560	.0277372	.0477123

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 127$$

k	.25	.26	.27	.28	.29	.30	.31	.32
51	.0001235	.0003451	.0008847	.0020924	.0045880	.0093683	.0178875	.0320576
52	.0000586	.0001721	.0004630	.0011479	.0026345	.0056228	.0112063	.0209350
53	.0000269	.0000832	.0002351	.0006111	.0014683	.0032767	.0068198	.0132851
54	.0000120	.0000390	.0001158	.0003156	.0007943	.0018538	.0040300	.0081908
55	.0000052	.0000178	.0000553	.0001582	.0004170	.0010182	.0023187	.0049056
56	.0000022	.0000078	.0000257	.0000769	.0002125	.0005429	.0012887	.0028537
57	.0000009	.0000034	.0000115	.0000363	.0001051	.0002809	.0006972	.0016122
58	.0000003	.0000014	.0000050	.0000166	.0000504	.0001411	.0003662	.0008844
59	.0000001	.0000006	.0000021	.0000074	.0000235	.0000688	.0001867	.0004711
60		.0000002	.0000009	.0000032	.0000106	.0000326	.0000924	.0002436
61		.0000001	.0000003	.0000013	.0000047	.0000149	.0000444	.0001223
62			.0000001	.0000005	.0000020	.0000067	.0000207	.0000596
63			.0000001	.0000002	.0000008	.0000029	.0000094	.0000282
64				.0000001	.0000003	.0000012	.0000041	.0000129
65					.0000001	.0000005	.0000018	.0000058
66						.0000002	.0000007	.0000025
67						.0000001	.0000003	.0000010
68							.0000001	.0000004
69								.0000002
70								.0000001

k	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999967	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999909	.9999968	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
22	.9999763	.9999912	.9999969	.9999989	.9999996	.9999999	1.0000000	1.0000000
23	.9999416	.9999774	.9999916	.9999970	.9999990	.9999997	.9999999	1.0000000
24	.9998638	.9999451	.9999787	.9999929	.9999972	.9999990	.9999997	.9999999
25	.9996976	.9998729	.9999487	.9999801	.9999926	.9999974	.9999991	.9999997
26	.9993605	.9997194	.9998819	.9999524	.9999816	.9999933	.9999976	.9999992
27	.9987089	.9994094	.9997410	.9998911	.9999561	.9999831	.9999937	.9999978
28	.9975086	.9988119	.9994571	.9997623	.9999002	.9999599	.9999845	.9999943
29	.9953970	.9977188	.9989118	.9995034	.9997830	.9999091	.9999635	.9999860
30	.9918466	.9957797	.9979077	.9990063	.9995479	.9998029	.9999177	.9999671
31	.9861342	.9925268	.9961425	.9980928	.9990968	.9995903	.9998219	.9999359
32	.9773304	.9872833	.9931685	.9964851	.9982679	.9991824	.9995304	.9998400
33	.9643217	.9791797	.9883642	.9937721	.9968074	.9984326	.9992633	.9996682
34	.9458767	.9671619	.9809171	.9893788	.9943382	.9971096	.9985869	.9993386
35	.9207596	.9500458	.9698306	.9825466	.9903289	.9948677	.9973918	.9987309
36	.8878879	.9266166	.9539604	.9723349	.9840723	.9912167	.9953615	.9976545
37	.8465181	.8957722	.9321410	.9576556	.9746818	.9854931	.9920443	.9958207
38	.7963905	.8566984	.9033344	.9373476	.9611177	.9768778	.9868281	.9928139
39	.7379217	.8090114	.8663697	.9102925	.9423505	.9643545	.9789296	.9876668
40	.6722032	.7529575	.8210704	.8755631	.9169631	.9468823	.9674056	.9788433
41	.6009017	.6894298	.7674083	.8325855	.8842905	.9232627	.9511962	.9652497
42	.5265658	.6199659	.7060744	.7813275	.8435737	.8925703	.9293057	.9455637
43	.4518050	.5467341	.6384920	.7222033	.7946084	.8546513	.9004178	.9188066
44	.3784844	.4721403	.5665360	.6565064	.7377825	.8097835	.8640338	.8837475
45	.3097060	.3987792	.4925672	.5859569	.6740261	.7587784	.8196554	.8735361
46	.2472797	.3290739	.4191041	.5127618	.6049839	.7030490	.7672575	.8113456
47	.1924687	.2650686	.3485094	.4393678	.5327017	.6436055	.7075737	.7512063
48	.1459489	.2082335	.2831527	.3682185	.4595406	.5827669	.6418112	.6835994
49	.1077500	.1594389	.2244275	.3015161	.3879280	.5234958	.5717364	.6098217
50	.0774214	.1189134	.1734465	.2410245	.3201198	.4676862	.4995048	.5309744
51	.0541162	.0863456	.1306219	.1879431	.2579946	.4169320	.4274626	.4492451
52	.0367891	.0610152	.0958070	.1428630	.2028076	.3713093	.3579214	.3677283
53	.0243146	.0419435	.0684083	.1058019	.1556229	.3308174	.2899403	.2870580
54	.0156200	.0280405	.0478312	.0763016	.1163252	.2953884	.2341498	.2208596
55	.0097515	.0182856	.0328262	.0539618	.0846975	.2647273	.1886411	.1703820
56	.0059150	.0115148	.0221164	.0368845	.0600435	.2385975	.1509317	.1306685
57	.0034856	.0070699	.0145943	.0245062	.0414272	.2165834	.1200019	.1000999
58	.0019951	.0042178	.0093620	.0157034	.0278084	.1981654	.0947883	.0759101
59	.0011091	.0024145	.0058597	.0097631	.0181353	.1827354	.0743054	.0570431
60	.0005987	.0013761	.0029676	.0060211	.0115250	.1696689	.0580009	.0426689
61	.0003138	.0007534	.0016908	.0035719	.0071119	.0133797	.0238389	.0403185
62	.0001597	.0003995	.0009357	.0020586	.0042651	.0083481	.0154389	.0270940
63	.0000789	.0002059	.0005029	.0011525	.0024854	.0050554	.0097819	.0177145
64	.0000378	.0001031	.0002624	.0006267	.0014069	.0029770	.0059507	.0113616
65	.0000176	.0000501	.0001330	.0003309	.0007735	.0017031	.0035397	.0069596
66	.0000080	.0000236	.0000654	.0001696	.0004130	.0009464	.0020456	.0041799
67	.0000035	.0000108	.0000312	.0000844	.0002141	.0005107	.0011488	.0024371
68	.0000015	.0000048	.0000145	.0000408	.0001077	.0002675	.0006359	.0013635
69	.0000006	.0000021	.0000065	.0000191	.0000526	.0001361	.0003313	.0007409
70	.0000002	.0000009	.0000028	.0000087	.0000249	.0000671	.0001708	.0004066

$$F(c,n,p) = \sum_{x=0}^{c} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 127

%	.33	.34	.35	.36	.37	.38	.39	.40
71	.0000001	.0000003	.0000012	.0000038	.0000115	.0000322	.0000848	.0002109
72		.0000001	.0000005	.0000016	.0000051	.0000149	.0000410	.0001061
73		.0000001	.0000002	.0000007	.0000022	.0000067	.0000192	.0000518
74			.0000001	.0000003	.0000009	.0000029	.0000088	.0000245
75				.0000001	.0000004	.0000018	.0000039	.0000113
76					.0000001	.0000005	.0000017	.0000050
77					.0000001	.0000002	.0000007	.0000022
78						.0000001	.0000003	.0000009
79							.0000001	.0000004
80								.0000001
81								.0000001

%	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999980	.9999993	.9999998	.99999 9	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999948	.9999982	.9999994	.9999996	.9999999	1.0000000	1.0000000	1.0000000
30	.9999874	.9999954	.9999984	.99999>5	.9999998	.9999999	1.0000000	1.0000000
31	.9999705	.9999887	.9999959	.9999986	.9999995	.9999998	1.0000000	1.0000000
32	.9999337	.9999737	.9999900	.9999964	.9999987	.9999996	.9999999	1.0000000
33	.9998570	.9999410	.9999767	.9999912	.9999968	.9999989	.9999996	.9999999
34	.9997036	.9998729	.9999478	.9999795	.9999923	.9999972	.9999991	.9999997
35	.9994089	.9997365	.9998876	.9999542	.9999821	.9999933	.9999976	.9999998
36	.9988646	.9994740	.9997669	.9999012	.9999600	.9999845	.9999943	.9999980
37	.9978982	.9989883	.9995341	.9997948	.9999136	.9999682	.9999866	.9999951
38	.9962464	.9981233	.9991022	.9995892	.9998203	.9999249	.9999700	.9999806
39	.9935277	.9966398	.9983306	.9992067	.9996396	.9998435	.9999351	.9999743
40	.9892164	.9941882	.9970023	.9985209	.9993081	.9996853	.9998644	.9999443
41	.9826252	.9902826	.9947976	.9973352	.9986946	.9993888	.9997866	.9998833
42	.9729060	.9842812	.9912685	.9953584	.9976399	.9988528	.9994678	.9997638
43	.9590763	.9753827	.9858171	.9921782	.9958729	.9979179	.9989968	.9995379
44	.9400789	.9626450	.9776879	.9872387	.9930152	.9963436	.9981705	.9991857
45	.9148759	.9450358	.9659002	.9798295	.9885514	.9937834	.9967727	.9983994
46	.8835724	.9215165	.9496898	.9690921	.9818152	.9897608	.9944864	.9971627
47	.8425559	.8911564	.9277630	.9540530	.9719905	.9836525	.9908722	.9951279
48	.7946315	.8538676	.8993016	.9336886	.9581370	.9746850	.9853466	.9918907
49	.7391258	.8075398	.8634917	.9070208	.9392460	.9619535	.9771847	.9869165
50	.6769307	.7541530	.8199378	.8732391	.9143266	.9444676	.9655127	.9794989
51	.6095236	.6938444	.7686816	.8318323	.8825204	.9212311	.9493656	.9688861
52	.5387927	.6279087	.7103082	.7827126	.8432303	.8913460	.9277465	.9539517
53	.4669552	.5581852	.6459351	.7263058	.7968471	.8541386	.8997865	.9338846
54	.3963122	.4866164	.5772215	.6635894	.7418498	.8098859	.8646643	.9076721
55	.3290396	.4156556	.5061861	.5960614	.6808588	.7569292	.8218340	.8745144
56	.2669918	.3474531	.4350602	.5256393	.6146257	.6977315	.7715397	.8338905
57	.2115533	.2839543	.3660733	.4544987	.5449519	.6328959	.7141961	.7856774
58	.1635665	.2266786	.3012482	.3848736	.4739445	.5641002	.6508544	.7302421
59	.1233203	.1766219	.2422271	.3188498	.4038276	.4933716	.5830617	.6684840
60	.0906124	.1342303	.1901559	.2581814	.3367358	.4229094	.5127543	.6010143
61	.0648586	.0994399	.1456366	.2041576	.2745233	.3548029	.4420931	.5300674
62	.0451910	.0717688	.1087484	.1575353	.2186155	.2912375	.3732478	.4615531
63	.0306463	.0504384	.0791251	.1185401	.1699217	.2335175	.3088964	.3991867
64	.0202184	.0345019	.0560688	.0869283	.1288165	.1827905	.2488518	.3256899
65	.0129715	.0229617	.0386745	.0620905	.0951850	.1395785	.1961386	.2646038
66	.0080906	.0148621	.0259566	.0431756	.0685149	.1039008	.1508268	.2099806
67	.0049044	.0093583	.0169439	.0292145	.0480165	.0753508	.1130814	.1625595
68	.0028885	.0057198	.0107537	.0192275	.0327469	.0532083	.0826070	.1227314
69	.0016524	.0033988	.0066333	.0123037	.0217234	.0365652	.0587619	.0902828
70	.0009179	.0019617	.0039754	.0076520	.0140114	.0244485	.0406808	.0646080
71	.0004950	.0010994	.0023141	.0046236	.0087832	.0158860	.0273953	.0451050
72	.0002591	.0005981	.0013079	.0027134	.0053491	.0100344	.0179370	.0305988
73	.0001316	.0003158	.0007175	.0015460	.0031637	.0061574	.0114133	.0201738
74	.0000648	.0001618	.0003820	.0008550	.0018166	.0036692	.0070547	.0129877
75	.0000310	.0000804	.0001973	.0004587	.0010183	.0021284	.0042341	.0080468
76	.0000143	.0000387	.0000988	.0002387	.0005478	.0011913	.0024665	.0048629
77	.0000064	.0000181	.0000480	.0001205	.0002849	.0006486	.0013941	.0028820
78	.0000028	.0000082	.0000226	.0000589	.0001458	.0003424	.0007641	.0016286
79	.0000012	.0000036	.0000103	.0000279	.0000718	.0001752	.0004060	.0008951
80	.0000005	.0000015	.0000045	.0000128	.0000343	.0000869	.0002091	.0004786
81	.0000002	.0000006	.0000019	.0000057	.0000158	.0000417	.0001043	.0002479

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 127$$

x	.41	.42	.43	.44	.45	.46	.47	.48
82	.0000001	.0000002	.0000008	.0000025	.0000071	.0000194	.0000504	.0001244
83		.0000001	.0000003	.0000010	.0000031	.0000087	.0000238	.0000604
84			.0000001	.0000004	.0000013	.0000038	.0000106	.0000284
85				.0000002	.0000005	.0000016	.0000047	.0000129
86				.0000001	.0000002	.0000006	.0000020	.0000057
87					.0000001	.0000003	.0000008	.0000024
88						.0000001	.0000003	.0000010
89							.0000001	.0000004
90								.0000001
91								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	.9999999	1.0000000
35	.9999997	.9999999
36	.9999993	.9999998
37	.9999983	.9999994
38	.9999959	.9999986
39	.9999903	.9999965
40	.9999781	.9999918
41	.9999524	.9999815
42	.9999001	.9999597
43	.9997970	.9999150
44	.9996012	.9998265
45	.9992421	.9996577
46	.9986058	.9993463
47	.9975159	.9987912
48	.9957113	.9978346
49	.9928216	.9962402
50	.9883453	.9936697
51	.9816361	.9896596
52	.9719039	.9836052
53	.9582376	.9747565
54	.9396570	.9622347
55	.9151932	.9450752
56	.8839963	.9228999
57	.8454591	.8950174
58	.7993389	.8565427
59	.7458596	.8125215
60	.6857686	.7610390
61	.6203368	.7026923
62	.5518862	.6386065
63	.4806659	.5703861
64	.4106570	.5000000
65	.3433955	.4296139
66	.2807601	.3613935
67	.2240283	.2973077
68	.1747774	.2389610
69	.1328553	.1874705
70	.0984147	.1434575
71	.0709978	.1069826
72	.0498492	.0777081
73	.0340458	.0549248
74	.0226060	.0377653
75	.0145855	.0252435
76	.0091399	.0163948
77	.0055601	.0103404
78	.0032880	.0063303
79	.0018790	.0037598
80	.0010429	.0021654
81	.0005609	.0012088
82	.0002928	.0006537
83	.0001473	.0003493

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$; n = 127

x	.49	.50
84	.0000719	.0001735
85	.0000339	.0000850
86	.0000155	.0000403
87	.0000068	.0000185
88	.0000089	.0000082
89	.0000012	.0000035
90	.0000005	.0000014
91	.0000002	.0000006
92	.0000001	.0000002
93		.0000001

$$F(r,n,p) = \sum_{x=0}^{r} \binom{n}{x} p^{x} (1-p)^{n-x}$$

n = 12

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7237483	.9846753	.9797333	.9946208	.9985919	.9996366	.9999076	.9999768
2	.3665745	.7879086	.8995085	.9659317	.9891061	.9966477	.9990171	.9997190
3	.1374781	.4729150	.7419357	.8900252	.9574032	.9846341	.9947608	.9982953
4	.0402857	.2543491	.5372611	.7571886	.8873233	.9523738	.9813054	.9930955
5	.0096063	.1149576	.3394445	.5842248	.7720603	.8880248	.9496563	.9789658
6	.0019209	.0444084	.1877170	.4054952	.6216117	.7861617	.8905781	.9484948
7	.0003295	.0148929	.0915187	.2528304	.4593855	.6528727	.7994197	.8941160
8	.0000493	.0043947	.0396651	.1419667	.3103849	.5045938	.6798356	.8118564
9	.0000065	.0011542	.0154088	.0720994	.1910521	.3614416	.5436962	.7035872
10	.0000008	.0002724	.0054062	.0332843	.1086712	.2396099	.4070669	.5780577
11	.0000001	.0000582	.0017249	.0140385	.0565737	.1470696	.2846919	.4401620
12		.0000114	.0005035	.0054362	.0271598	.0837055	.1858811	.3269944
13		.0000020	.0001352	.0019415	.0120659	.0447714	.1133668	.2242654
14		.0000003	.0000335	.0006422	.0049772	.0216115	.0646640	.1445559
15		.0000001	.0000077	.0001975	.0019125	.0100353	.0345521	.0876206
16			.0000017	.0000566	.0006867	.0043227	.0173268	.0499937
17			.0000003	.0000152	.0002310	.0017474	.0081701	.0268859
18			.0000001	.0000038	.0000710	.0006644	.0036291	.0136477
19				.0000009	.0000217	.0002382	.0015217	.0065490
20				.0000002	.0000061	.0000806	.0006033	.0029752
21					.0000016	.0000258	.0002365	.0012816
22					.0000004	.0000078	.0000907	.0005249
23					.0000001	.0000023	.0000333	.0002055
24						.0000006	.0000118	.0000755
25						.0000002	.0000027	.0000256
26							.0000008	.0000080
27							.0000002	.0000029
28							.0000001	.0000009
29								.0000007
30								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999943	.9999986	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999219	.9999788	.9999944	.9999986	.9999996	.9999999	1.0000000	1.0000000
3	.9994672	.9998394	.9999531	.9999867	.9999963	.9999990	.9999997	.9999999
4	.9975787	.9991884	.9997387	.9999189	.9999757	.9999929	.9999980	.9999995
5	.9917417	.9969282	.9989108	.9996301	.9998797	.9999620	.9999885	.9999966
6	.9774252	.9907000	.9963729	.9986533	.9995219	.9999371	.9999466	.9999831
7	.9483987	.9763135	.9899427	.9959227	.9989202	.9998204	.9999053	.9999305
8	.8983658	.9490412	.9760914	.9894730	.9975763	.9993298	.9997559	.9997559
9	.8235225	.9028716	.9501981	.9760481	.9941331	.9983075	.9992527	.9992527
10	.7248280	.8344747	.9075274	.9517118	.9762960	.9890077	.9951643	.9979748
11	.6086723	.7440374	.8447680	.9122207	.9534696	.9767663	.9890256	.9950792
12	.4854380	.6362434	.7615588	.8544527	.9168807	.9553093	.9774047	.9891536
13	.3666051	.5194667	.6613871	.7776476	.8635743	.9234594	.9574099	.9781680
14	.2617347	.4036680	.5507023	.6841924	.7924992	.8721731	.9259850	.9594863
15	.1765378	.2980170	.4384311	.5795104	.7052606	.8062670	.8802551	.9302563
16	.1124997	.2087837	.3389719	.4710219	.6061884	.7247273	.8190739	.8879424
17	.0677696	.1387603	.2409175	.3665392	.5016365	.6309604	.7427849	.8310202
18	.0386246	.0875014	.1659594	.2726739	.3987106	.5304365	.6544841	.7595885
19	.0208401	.0523795	.1088286	.1937410	.3038688	.4295328	.5575612	.6756045
20	.0106712	.0297665	.0679485	.1314256	.2218218	.3343758	.4586535	.5831586
21	.0051853	.0161053	.0404118	.0851139	.1550054	.2499781	.3641103	.4871083
22	.0023948	.0082873	.0229066	.0526356	.1036587	.1793196	.2780341	.3930180
23	.0010526	.0040435	.0123870	.0310952	.0663426	.1233784	.2041589	.3058531
24	.0004408	.0018991	.0063937	.0175580	.0406445	.0814031	.1440708	.2293539
25	.0001761	.0008474	.0031530	.0094818	.0238449	.0515100	.0976816	.1655606
26	.0000672	.0003613	.0014867	.0049004	.0134020	.0312662	.0636264	.1150427
27	.0000245	.0001473	.0006709	.0024255	.0072204	.0182109	.0398186	.0769161
28	.0000085	.0000575	.0002899	.0011505	.0037308	.0101830	.0239466	.0494615
29	.0000029	.0000215	.0001201	.0005234	.0018500	.0054674	.0138435	.0306318
30	.0000009	.0000077	.0000477	.0002285	.0008808	.0028209	.0076954	.0182511
31	.0000003	.0000027	.0000182	.0000958	.0004030	.0013991	.0041151	.0104686
32	.0000001	.0000009	.0000067	.0000386	.0001772	.0006675	.0021177	.0057029
33		.0000003	.0000023	.0000150	.0000750	.0003064	.0010492	.0030772
34		.0000001	.0000008	.0000056	.0000305	.0001354	.0005007	.0015780
35			.0000003	.0000020	.0000120	.0000577	.0002303	.0007801
36			.0000001	.0000007	.0000045	.0000237	.0001021	.0003719
37				.0000002	.0000016	.0000094	.0000436	.0001711
38				.0000001	.0000006	.0000036	.0000180	.0000759
39					.0000002	.0000013	.0000072	.0000325
40					.0000001	.0000005	.0000028	.0000135
41						.0000002	.0000010	.0000054
42						.0000001	.0000004	.0000021
43							.0000001	.0000008
44								.0000003
45								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999948	.9999985	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999773	.9999928	.9999978	.9999994	.9999998	.9999999	1.0000000	1.0000000
8	.9999146	.9999713	.9999907	.9999971	.9999991	.9999997	.9999999	1.0000000
9	.9997204	.9998946	.9999654	.9999885	.9999963	.9999989	.9999997	.9999999
10	.9991901	.9996900	.9998862	.9999598	.9999864	.9999955	.9999986	.9999996
11	.9978976	.9991424	.9996651	.9998746	.9999549	.9999844	.9999948	.9999983
12	.9950578	.9978528	.9991089	.9996460	.9998651	.9999507	.9999826	.9999941
13	.9863866	.9950920	.9978368	.9990888	.9996386	.9998579	.9999473	.9999818
14	.9700219	.9896869	.9951741	.9978458	.9990808	.9996245	.9998529	.9999447
15	.9615839	.9799391	.9900437	.9952931	.9978762	.9990838	.9996815	.9998501

$$I_x(a,b) = \sum_{j=a}^{b} \binom{n}{j} x^j (1-x)^{n-j}$$

N	.17	.18	.19	.20	.21	.22	.23	.24
16	.9344394	.9636770	.9800976	.9904431	.9954424	.9979246	.9990961	.9996230
17	.8951719	.9384656	.9657409	.9811798	.9900734	.9956155	.9979827	.9991165
18	.8421892	.9020055	.9423306	.9677756	.9828716	.9911247	.9958065	.9980697
19	.7752667	.8526506	.9084604	.9460316	.9697548	.9838616	.9917888	.9960106
20	.6959103	.7899274	.8624638	.9145600	.9495683	.9716750	.9848408	.9922588
21	.6073274	.7148890	.8036619	.8716799	.9203235	.9529420	.9735300	.9858018
22	.5140182	.6301768	.7327263	.8165484	.8803413	.9257880	.9561587	.9753153
23	.4210666	.5397356	.6517993	.7495135	.8286542	.8884926	.9309128	.9592095
24	.3333251	.4482395	.5643129	.6722776	.7653301	.8400308	.8961688	.9357687
25	.2547012	.3603698	.4745313	.5878038	.6916058	.7802[illegible]	.8507517	.9033836
26	.1877099	.2801297	.3869223	.4999450	.6102483	.7100906	.7943840	.8600404
27	.1333532	.2103524	.3055116	.4129339	.5244890	.6317017	.7275521	.8076180
28	.0912940	.1524883	.2333699	.3307566	.4383680	.5481761	.6520049	.7441245
29	.0602202	.1066709	.1723294	.2566507	.3557898	.4631972	.5710215	.6717994
30	.0382736	.0719899	.1229564	.1927661	.2800512	.3805476	.4874021	.5930423
31	.0234398	.0466673	.0847381	.1400613	.2136936	.3036198	.4046774	.5109692
32	.0138350	.0294337	.0563978	.0984075	.1570582	.2350275	.3271455	.4290355
33	.0078718	.0178334	.0362469	.0668417	.1120372	.1763832	.2566730	.3506055
34	.0043187	.0104257	.0224964	.0438848	.0781608	.1288649	.1954362	.2785529
35	.0022853	.0058022	.0134841	.0278486	.0523448	.0903936	.1443275	.2150809
36	.0011667	.0030237	.0078065	.0170916	.0339085	.0616178	.1033266	.1610625
37	.0005749	.0016847	.0043661	.0101379	.0212401	.0406877	.0716888	.1170766
38	.0002735	.0008556	.0023595	.0058053	.0128801	.0260084	.0481900	.0825383
39	.0001256	.0004198	.0012323	.0032174	.0075532	.0160937	.0313824	.0564194
40	.0000558	.0001991	.0006282	.0017244	.0042854	.0096403	.0197961	.0373886
41	.0000239	.0000912	.0003037	.0008940	.0023537	.0055904	.0120958	.0240116
42	.0000099	.0000404	.0001434	.0004483	.0012500	.0031387	.0071590	.0149465
43	.0000040	.0000173	.0000655	.0002176	.0006438	.0017063	.0041044	.0090173
44	.0000015	.0000072	.0000289	.0001022	.0003200	.0009083	.0022796	.0052783
45	.0000006	.0000029	.0000124	.0000464	.0001543	.0004880	.0012266	.0029877
46	.0000002	.0000011	.0000051	.0000204	.0000720	.0002562	.0006395	.0016410
47	.0000001	.0000004	.0000021	.0000087	.0000326	.0001282	.0003231	.0008736
48		.0000002	.0000008	.0000036	.0000143	.0000632	.0001582	.0004509
49		.0000001	.0000003	.0000014	.0000060	.0000295	.0000751	.0002256
50			.0000001	.0000006	.0000025	.0000098	.0000345	.0001094
51				.0000002	.0000010	.0000041	.0000154	.0000515
52				.0000001	.0000004	.0000017	.0000067	.0000236
53					.0000001	.0000007	.0000028	.0000104
54					.0000001	.0000003	.0000011	.0000045
55						.0000001	.0000004	.0000019
56							.0000002	.0000007
57							.0000001	.0000003
58								.0000001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999995	.9999996	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999961	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999935	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
14	.9999800	.9999931	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000
15	.9999430	.9999792	.9999927	.9999975	.9999992	.9999997	.9999999	1.0000000
16	.9998492	.9999431	.9999787	.9999924	.9999974	.9999992	.9999997	.9999999
17	.9996284	.9998502	.9999420	.9999784	.9999923	.9999974	.9999991	.9999997
18	.9991435	.9996373	.9998527	.9999426	.9999785	.9999923	.9999973	.9999991
19	.9981468	.9991761	.9996490	.9998566	.9999438	.9999789	.9999924	.9999973
20	.9963334	.9983379	.9992129	.9996631	.9998617	.9999435	.9999794	.9999925
21	.9927298	.9964414	.9983337	.9992529	.9996790	.9998678	.9999477	.9999802
22	.9867350	.9931952	.9966613	.9984325	.9992952	.9996963	.9998745	.9999503
23	.9770277	.9876479	.9936530	.9968807	.9985327	.9993389	.9997145	.9998818
24	.9621090	.9786654	.9885250	.9940995	.9970973	.9986329	.9993833	.9997334
25	.9403524	.9648578	.9803271	.9893677	.9945323	.9973091	.9987322	.9994278
26	.9101833	.9446763	.9674598	.9817126	.9901741	.9949495	.9975153	.9988295
27	.8703466	.9165859	.9487527	.9699192	.9831220	.9909430	.9953495	.9977141
28	.8201774	.8793007	.9226141	.9525931	.9722405	.9844862	.9916715	.9957318
29	.7598573	.8330464	.8877413	.9282884	.9562082	.9744202	.9857161	.9923654
30	.6905238	.7787953	.8432648	.8956959	.9336276	.9596085	.9764869	.9869033
31	.6142570	.7084176	.7889793	.8533688	.9031915	.9386491	.9628035	.9784211
32	.5338898	.6346843	.7255061	.8024471	.8648913	.9102526	.9433691	.9658026
33	.4526854	.5615589	.6543433	.7418301	.8152333	.8733626	.9169021	.9478056
34	.3739418	.4758971	.5777747	.6738533	.7574167	.8273697	.8823102	.9231609
35	.3006022	.3971027	.4986455	.5987376	.6914331	.7722943	.8380060	.8907600
36	.2349458	.3287501	.4200429	.5209102	.6190522	.7089013	.7864893	.8498096
37	.1784083	.2552633	.3449386	.4427274	.5426744	.6387162	.7296768	.8000328
38	.1315484	.1963048	.2758703	.3671175	.4651065	.5637244	.6677408	.7421785
39	.0941187	.1466975	.2144938	.2967076	.3892349	.4871644	.5846494	.6761299
40	.0653691	.1064779	.1624779	.2335192	.3177200	.4112479	.5088690	.6048407
41	.0440686	.0750314	.1195070	.1788437	.2527270	.3388560	.4331161	.5301966
42	.0287607	.0511189	.0853945	.1332067	.1957494	.2732657	.3600676	.4548029
43	.0182185	.0340509	.0592598	.0964436	.1475519	.2131491	.2920857	.3813099
44	.0111904	.0219231	.0399265	.0678500	.1081611	.1624769	.2310055	.3128400
45	.0066647	.0137024	.0261131	.0463688	.0770876	.1205274	.1779855	.2492585
46	.0038454	.0083639	.0165761	.0307750	.0533959	.0869662	.1335210	.1940810
47	.0021551	.0048814	.0102115	.0198329	.0359554	.0610136	.0974774	.1471187
48	.0011701	.0027354	.0061045	.0124089	.0234988	.0416084	.0692250	.1086107
49	.0006161	.0015395	.0035411	.0075369	.0149166	.0275743	.0475054	.0780309
50	.0003146	.0008260	.0019932	.0044455	.0091975	.0177549	.0320938	.0545361

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 120$$

r	.25	.26	.27	.28	.29	.30	.31	.32
51	.0001558	.0004299	.0010886	.0025429	.0055066	.0111049	.0209409	.0370671
52	.0000748	.0002170	.0005769	.0014184	.0032010	.0067465	.0132775	.0244943
53	.0000348	.0001063	.0002967	.0007614	.0018065	.0039805	.0081798	.0157331
54	.0000157	.0000505	.0001480	.0003984	.0009998	.0022807	.0048946	.0098310
55	.0000069	.0000233	.0000717	.0002023	.0005264	.0012689	.0028451	.0059569
56	.0000029	.0000104	.0000337	.0000997	.0002718	.0006855	.0016062	.0035103
57	.0000012	.0000045	.0000153	.0000477	.0001362	.0003595	.0008804	.0020094
58	.0000005	.0000019	.0000068	.0000221	.0000663	.0001831	.0004686	.0011173
59	.0000008	.0000008	.0000029	.0000100	.0000313	.0000905	.0002424	.0006034
60	.0000001	.0000003	.0000012	.0000044	.0000143	.0000434	.0001216	.0003164
61		.0000001	.0000005	.0000018	.0000064	.0000202	.0000593	.0001611
62			.0000002	.0000008	.0000028	.0000091	.0000280	.0000797
63			.0000001	.0000003	.0000012	.0000040	.0000129	.0000382
64				.0000001	.0000005	.0000017	.0000057	.0000178
65					.0000002	.0000007	.0000025	.0000081
66					.0000001	.0000003	.0000010	.0000035
67						.0000001	.0000004	.0000015
68							.0000002	.0000006
69							.0000001	.0000003
70								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999974	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999928	.9999975	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
22	.9999811	.9999931	.9999976	.9999992	.9999997	.9999999	1.0000000	1.0000000
23	.9999531	.9999821	.9999935	.9999977	.9999993	.9999998	.9999999	1.0000000
24	.9998895	.9999561	.9999833	.9999939	.9999979	.9999993	.9999998	.9999999
25	.9997535	.9998974	.9999592	.9999844	.9999943	.9999980	.9999993	.9999998
26	.9994717	.9997715	.9999053	.9999624	.9999857	.9999948	.9999982	.9999994
27	.9989239	.9995148	.9997903	.9999132	.9999655	.9999869	.9999952	.9999983
28	.9979047	.9990151	.9995565	.9998087	.9999209	.9999687	.9999881	.9999957
29	.9960938	.9980865	.9991023	.9995926	.9998263	.9998984	.9999717	.9999901
30	.9930103	.9964370	.9982589	.9991852	.9996348	.9998433	.9999356	.9999746
31	.9880193	.9936328	.9967603	.9984217	.9993637	.9996711	.9998593	.9999424
32	.9808356	.9890661	.9943094	.9970639	.9985746	.9993374	.9997051	.9998744
33	.9686146	.9819349	.9900457	.9947488	.9973478	.9987176	.9994063	.9997369
34	.9519635	.9712480	.9835236	.9909604	.9952518	.9976103	.9988506	.9994704
35	.9290483	.9558653	.9737109	.9853062	.9918124	.9957196	.9978579	.9989740
36	.8987356	.9346835	.9595202	.9760111	.9863072	.9926041	.9961534	.9980051
37	.8601661	.9062593	.9397806	.9629402	.9781563	.9876712	.9933380	.9965542
38	.8129306	.8699795	.9133517	.9446565	.9661364	.9801535	.9886624	.9940166
39	.7572164	.8252330	.8792723	.9200323	.9492312	.9691195	.9820100	.9899653
40	.6938903	.7730158	.8369252	.8880657	.9263195	.9535131	.9716999	.9837325
41	.6244915	.7110392	.7861900	.8480574	.8963797	.9322306	.9575178	.9744878
42	.5511263	.6435968	.7275543	.7997548	.8586391	.9042333	.9377820	.9612581
43	.4762751	.5716397	.6621529	.7434736	.8127256	.8686885	.9116447	.9430594
44	.4028410	.4975021	.5917206	.6801673	.7587955	.8251173	.8782233	.9190511
45	.3328836	.4237220	.5184563	.6113547	.6976085	.7735284	.8369447	.8872606
46	.2678807	.3527737	.4448162	.5391120	.6305295	.7145061	.7876810	.8462818
47	.2105564	.2868265	.3732696	.4657026	.5594451	.6492340	.7308504	.8012630
48	.1618964	.2275547	.3060556	.3938322	.4866102	.5794372	.6674586	.7466423
49	.1203537	.1760887	.2449813	.3255290	.4144247	.5072481	.5990656	.6851948
50	.0874299	.1326921	.1912896	.2628015	.3452089	.4350115	.5276751	.6183133
51	.0618083	.0974187	.1456104	.2070524	.2809810	.3650586	.4555591	.5478648
53	.0425077	.0696275	.1079923	.1590918	.2333898	.2994859	.3850425	.4760350
53	.0284313	.0484278	.0779979	.1191439	.1731102	.2399743	.3182829	.4051261
54	.0184893	.0327675	.0548302	.0869217	.1308653	.1876707	.2570781	.3373389
55	.0116681	.0215627	.0375180	.0617481	.0963998	.1431471	.2027295	.2745730
56	.0071811	.0137965	.0249699	.0426963	.0691655	.1064314	.1559704	.2188739
57	.0042873	.0085612	.0161621	.0287264	.0483152	.0770969	.1170145	.1693473
58	.0024870	.0051875	.0101713	.0188004	.0328474	.0543863	.0855476	.1281460
59	.0014015	.0030474	.0062325	.0119656	.0217269	.0373471	.0609202	.0945819
60	.0007671	.0017394	.0036998	.0074042	.0139782	.0249566	.0422392	.0679866
61	.0004078	.0009645	.0021377	.0044536	.0087448	.0162233	.0285041	.0477368
62	.0002106	.0005195	.0012000	.0026034	.0053184	.0102564	.0187149	.0338338
63	.0001056	.0002717	.0006544	.0014787	.0031439	.0063043	.0119515	.0234671
64	.0000514	.0001380	.0003466	.0008160	.0018059	.0037667	.0074215	.0159427
65	.0000243	.0000681	.0001783	.0004374	.0010079	.0021872	.0044800	.0106004
66	.0000111	.0000326	.0000890	.0002277	.0005464	.0012339	.0026283	.0069218
67	.0000050	.0000152	.0000432	.0001151	.0002877	.0006762	.0014982	.0031354
68	.0000021	.0000068	.0000203	.0000565	.0001471	.0003599	.0008296	.0018051
69	.0000009	.0000030	.0000093	.0000269	.0000730	.0001860	.0004462	.0010095
70	.0000004	.0000013	.0000041	.0000124	.0000352	.0000933	.0002330	.0005483

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 120

c	.33	.34	.35	.36	.37	.38	.39	.40
71	.0000001	.0000005	.0000018	.0000056	.0000164	.0000455	.0001181	.0002892
72	.0000001	.0000002	.0000007	.0000024	.0000075	.0000215	.0000581	.0001480
73		.0000001	.0000003	.0000010	.0000033	.0000098	.0000277	.0000735
74			.0000001	.0000004	.0000014	.0000044	.0000128	.0000355
75				.0000002	.0000006	.0000019	.0000058	.0000166
76				.0000001	.0000002	.0000008	.0000025	.0000075
77					.0000001	.0000003	.0000011	.0000033
78						.0000001	.0000004	.0000014
79							.0000004	.0000006
80							.0000001	.0000002
81								.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999985	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999961	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999904	.9999965	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000
31	.9999774	.9999915	.9999970	.9999990	.9999997	.9999999	1.0000000	1.0000000
32	.9999488	.9999800	.9999935	.9999973	.9999991	.9999997	.9999999	1.0000000
33	.9998884	.9999547	.9999824	.9999915	.9999977	.9999993	.9999997	.9999999
34	.9997665	.9999015	.9999603	.9999847	.9999943	.9999980	.9999993	.9999998
35	.9995247	.9997938	.9999135	.9999653	.9999867	.9999951	.9999983	.9999994
36	.9990873	.9995843	.9998188	.9999245	.9999699	.9999886	.9999958	.9999986
37	.9982944	.9991933	.9996342	.9998416	.9999345	.9999741	.9999902	.9999965
38	.99 9236	.9984866	.9992879	.9996797	.9998623	.9999435	.9999778	.9999917
39	.9946434	.9972629	.9986624	.9993750	.9997209	.9998809	.9999515	.9999813
40	.9909640	.9950179	.9975735	.9988326	.9994539	.9997581	.9998977	.9999587
41	.9853276	.9919229	.9957456	.9978568	.9989679	.9995252	.9997914	.9999135
42	.9768909	.9868018	.9927860	.9962282	.9981145	.9990993	.9995891	.9998211
43	.9647465	.9791201	.9881613	.9935775	.9966601	.9983479	.9992176	.9996463
44	.9478679	.9679948	.9811835	.9894131	.9943019	.9970678	.9985556	.9993235
45	.9253091	.9524317	.9710145	.9830896	.9905601	.9949611	.9974297	.9987480
46	.8958160	.9313946	.9566947	.9738166	.9840465	.9916112	.9955616	.9977563
47	.8589637	.9039077	.9372029	.9606702	.9764116	.9864623	.9925709	.9961046
48	.8142805	.8691809	.9115486	.9426489	.9643711	.9788100	.9870447	.9934446
49	.7618831	.8267456	.8788900	.9187546	.9477470	.9678098	.9810217	.9893010
50	.7024354	.7765755	.8386660	.8881031	.9255403	.9525110	.9709985	.9830565
51	.6371638	.7191740	.7907815	.8500513	.8968331	.9319199	.9569547	.9739490
52	.5677724	.6556017	.7354054	.8041253	.8609108	.9050932	.9370075	.9610914
53	.4964085	.5874342	.6736159	.7511248	.8173006	.8712540	.9120959	.9435160
54	.4252758	.5166501	.6067583	.6911846	.7663286	.8299187	.8810905	.9202541
55	.3566214	.4454591	.5367313	.6257737	.7080348	.7810136	.8419178	.8904301
56	.2924310	.3760982	.4656443	.5566250	.6444306	.7249635	.7951780	.8533900
57	.2340828	.3106238	.3957377	.4858006	.5763051	.6627303	.7411476	.8088197
58	.1838411	.2507344	.3291230	.4155086	.5058278	.5957468	.6806350	.7568511
59	.1398212	.1976457	.2676062	.3479002	.4353802	.5259068	.6149242	.6981879
60	.1040207	.1520347	.2125466	.2848755	.3669271	.4553220	.5457988	.6330157
61	.0754141	.1140518	.1647799	.2279381	.3035189	.3861751	.4753039	.5655459
62	.0533523	.0833907	.1246103	.1780421	.2437740	.3205128	.4056157	.4959960
63	.0366096	.0593972	.0918631	.1356980	.1918339	.2600674	.3388330	.4253203
64	.0244937	.0411952	.0659027	.1008375	.1473138	.2061349	.2767904	.3574549
65	.0159486	.0278086	.0461538	.0730191	.1103191	.1594560	.2209119	.2939248
66	.0100918	.0182639	.0314253	.0514981	.0805164	.1203135	.1721216	.2361839
67	.0062107	.0116664	.0208194	.0353574	.0572408	.0884838	.1306214	.1853072
68	.0037150	.0072455	.0134155	.0236218	.0396182	.0633938	.0969299	.1410489
69	.0021592	.0043736	.0084051	.0153501	.0266840	.0442210	.0699691	.1058630
70	.0013191	.0025653	.0051183	.0096987	.0174818	.0300189	.0491789	.0769780
71	.0006684	.0014616	.0030384	.0059561	.0111359	.0198220	.0336395	.0545048
72	.0003558	.0008087	.0017405	.0035539	.0068944	.0127267	.0223024	.0375587
73	.0001839	.0004344	.0009714	.0020597	.0041471	.0079409	.0144795	.0251746
74	.0000922	.0002265	.0005263	.0011590	.0024228	.0048138	.0091032	.0164058
75	.0000449	.0001146	.0002767	.0006331	.0013742	.0028339	.0053598	.0103896
76	.0000212	.0000562	.0001411	.0003355	.0007565	.0016196	.0032973	.0063911
77	.0000097	.0000267	.0000698	.0001725	.0004040	.0008985	.0018081	.0036172
78	.0000043	.0000123	.0000335	.0000860	.0002093	.0004833	.0010602	.0022127
79	.0000018	.0000055	.0000156	.0000416	.0001051	.0002521	.0005743	.0012443
80	.0000008	.0000024	.0000070	.0000195	.0000512	.0001275	.0003017	.0006785
81	.0000003	.0000010	.0000031	.0000088	.0000241	.0000625	.0001535	.0003587

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 120

x	.41	.42	.43	.44	.45	.46	47	.48
82	.0000001	.0000004	.0000013	.0000039	.0000110	.0000297	.0000757	.0001837
83		.0000002	.0000005	.0000017	.0000049	.0000136	.0000368	.0000911
84		.0000001	.0000002	.0000007	.0000021	.0000061	.0000167	.0000437
85			.0000001	.0000003	.0000009	.0000026	.0000075	.0000203
86				.0000001	.0000003	.0000011	.0000038	.0000091
87					.0000001	.0000004	.0000013	.0000040
88						.0000002	.0000006	.0000017
89						.0000001	.0000002	.0000007
90							.0000001	.0000003
91								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	.9999999	1.0000000
35	.9999998	.9999999
36	.9999995	.9999999
37	.9999988	.9999996
38	.9999970	.9999990
39	.9999930	.9999975
40	.9999841	.9999942
41	.9999650	.9999867
42	.9999257	.9999706
43	.9998475	.9999373
44	.9996971	.9998707
45	.9994181	.9997421
46	.9989176	.9995020
47	.9980499	.9990648
48	.9965956	.9983129
49	.9942375	.9970374
50	.9905387	.9949549
51	.9849836	.9916646
52	.9766787	.9866324
53	.9649341	.9791809
54	.9487615	.9684956
55	.9271805	.9536550
56	.8998888	.9336076
57	.8643483	.9076587
58	.8219378	.8747801
59	.7720645	.8345321
60	.7158132	.7867803
61	.6583981	.7318656
62	.5851207	.6706494
63	.5158688	.6044963
64	.4449604	.5351930
65	.3763536	.4648070
66	.3114515	.3955037
67	.2519289	.3293506
68	.1990083	.2681344
69	.1533971	.2132197
70	.1158906	.1654679
71	.0844318	.1252199
72	.0608117	.0923413
73	.0417895	.0663124
74	.0282115	.0463450
75	.0185156	.0315044
76	.0118082	.0208191
77	.0073142	.0133676
78	.0043983	.0083354
79	.0025665	.0050451
80	.0014586	.0029526

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 120

x	.49	.50
81	.00007971	.00166871
82	.00048338	.00094318
83	.00031183	.00049860
84	.00010889	.00023579
85	.00005885	.00012993
86	.00002245	.00006827
87	.00001111	.00003394
88	.00000548	.00001733
89	.00000220	.00000838
90	.00000098	.00000385
91	.00000003	.00000170
92	.00000001	.00000064
93		.00000021
94		.00000001

$$I_x(p,q) = \sum_{j=a}^{n} \binom{n}{j} x^j (1-x)^{n-j}$$

n = 129

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.7035100	.9861017	.9993413	.9998360	.9999623	.9999504	.9999140	.9999787
2	.3701468	.7310439	.9019094	.9670793	.9895003	.9968458	.9990794	.9997396
3	.1397690	.4780149	.7466627	.8930615	.9589864	.9853561	.9950587	.9984092
4	.0418576	.2587204	.5434015	.7695023	.8900273	.9543094	.9833473	.9935115
5	.0099131	.1177454	.3453790	.5911433	.7778934	.9118857	.9518718	.9800962
6	.0019078	.0458194	.1928689	.4126444	.6891341	.7928735	.8947136	.9509324
7	.0003454	.0154832	.0944046	.2589370	.4674018	.6600700	.8058008	.8958822
8	.0000581	.0046046	.0412207	.1464512	.3178299	.5343905	.6882065	.8184420
9	.0000070	.0012190	.0161365	.0748941	.1977700	.3700307	.5538960	.7138480
10	.0000008	.0002900	.0057063	.0348369	.1123303	.2469198	.4166388	.5881001
11	.0000001	.0000685	.0018353	.0140083	.0591786	.1526880	.2993583	.4585536
12		.0000123	.0005401	.0057803	.0284308	.0875073	.1987979	.3366078
13		.0000022	.0001468	.0020813	.0120206	.0466378	.1184428	.2334037
14		.0000004	.0000366	.0006841	.0053316	.0231591	.0660732	.1530927
15		.0000001	.0000085	.0002153	.0020658	.0107419	.0366599	.0921784
16			.0000018	.0000623	.0007480	.0046654	.0185386	.0530039
17			.0000004	.0000169	.0002530	.0019019	.0097110	.0287346
18			.0000001	.0000043	.0000809	.0007894	.0039478	.0147068
19				.0000010	.0000243	.0003037	.0016693	.0071169
20				.0000002	.0000069	.0000901	.0006676	.0032611
21					.0000018	.0000291	.0002529	.0014171
22					.0000005	.0000090	.0000948	.0006048
23					.0000001	.0000026	.0000311	.0002695
24						.0000007	.0000101	.0000857
25						.0000002	.0000031	.0000305
26							.0000009	.0000104
27							.0000003	.0000034
28							.0000001	.0000010
29								.0000003
30								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999940	.9999987	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999284	.9999808	.9999950	.9999987	.9999997	.9999999	1.0000000	1.0000000
3	.9995081	.9998533	.9999577	.9999881	.9999968	.9999991	.9999998	.9999999
4	.9977486	.9992535	.9997623	.9999371	.9999784	.9999938	.9999983	.9999995
5	.9928670	.9971849	.9990018	.9996648	.9998918	.9999663	.9999891	.9999971
6	.9787136	.9913208	.9966521	.9987705	.9995603	.9998546	.9999529	.9999853
7	.9510111	.9779331	.9906500	.9962503	.9985695	.9994787	.9998180	.9999389
8	.9048687	.9517885	.9776150	.9902116	.9955469	.9984035	.9993666	.9997838
9	.8308584	.9074895	.9530463	.9776543	.9889707	.9957343	.9982738	.9993338
10	.7337105	.8413145	.9132012	.9546333	.9779648	.9898983	.9956088	.9981792
11	.6191063	.7530811	.8516715	.9169596	.9564320	.9784801	.9899464	.9955416
12	.4965391	.6470028	.7707118	.8613849	.9216372	.9583821	.9791478	.9901066
13	.3771000	.5311444	.6731170	.7866842	.8705041	.9262096	.9604092	.9795966
14	.2711730	.4158659	.5660666	.6954070	.8017340	.8790733	.9306477	.9624753
15	.1848055	.3085041	.4507810	.5920783	.7166011	.8184930	.8871311	.9349331
16	.1188632	.2177070	.3445724	.4840405	.6190677	.7361459	.8308556	.8947126
17	.0717955	.1457627	.2510433	.3790778	.5152883	.6441000	.7543283	.8401578
18	.0413476	.0936273	.1742048	.2839378	.4120909	.5445126	.6673955	.7710175
19	.0224489	.0558917	.1151130	.2032199	.3161982	.4436336	.5780455	.6891091
20	.0115879	.0320458	.0724453	.1389034	.2324879	.3476936	.4737455	.5976639
21	.0056789	.0174733	.0434408	.0906713	.1636915	.2617938	.3703368	.5024764
22	.0026459	.0090691	.0248239	.0565330	.1103330	.1892118	.2904455	.4080735
23	.0011734	.0044850	.0135443	.0336801	.0711937	.1311076	.2153376	.3197987
24	.0004958	.0021154	.0070530	.0191825	.0439853	.0872792	.1530036	.2415760
25	.0001999	.0009526	.0035094	.0104509	.0260988	.0556951	.1046399	.1757711
26	.0000770	.0004099	.0016700	.0054508	.0147596	.0341003	.0707347	.1231365
27	.0000283	.0001687	.0007606	.0027225	.0080340	.0200386	.0433898	.0830163
28	.0000100	.0000665	.0003318	.0013035	.0041845	.0113061	.0263275	.0538710
29	.0000034	.0000251	.0001388	.0005966	.0020945	.0061275	.0153590	.0336478
30	.0000011	.0000091	.0000557	.0002639	.0010068	.0031914	.0086176	.0203320
31	.0000003	.0000032	.0000215	.0001117	.0004651	.0015903	.0046521	.0117140
32	.0000001	.0000011	.0000079	.0000455	.0002066	.0007699	.0024173	.0065326
33		.0000003	.0000028	.0000170	.0000883	.0003570	.0012095	.0035101
34		.0000001	.0000010	.0000057	.0000363	.0001594	.0005830	.0018179
35			.0000003	.0000024	.0000144	.0000686	.0002700	.0009078
36			.0000001	.0000008	.0000055	.0000284	.0001213	.0004378
37				.0000003	.0000020	.0000114	.0000534	.0002032
38				.0000001	.0000007	.0000044	.0000219	.0000918
39					.0000002	.0000016	.0000088	.0000395
40					.0000001	.0000006	.0000034	.0000165
41						.0000003	.0000013	.0000067
42						.0000001	.0000005	.0000026
43							.0000002	.0000010
44							.0000001	.0000004
45								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999956	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999803	.9999939	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000
8	.9999253	.9999751	.9999920	.9999975	.9999993	.9999998	.9999999	1.0000000
9	.9997534	.9999125	.9999702	.9999908	.9999969	.9999991	.9999997	.9999999
10	.9992803	.9997277	.9999013	.9999656	.9999885	.9999963	.9999988	.9999997
11	.9981173	.9993409	.9997071	.9998916	.9999615	.9999868	.9999957	.9999986
12	.9955445	.9980849	.9992146	.9996917	.9998840	.9999581	.9999854	.9999951
13	.9903507	.9955896	.9980785	.9992002	.9996814	.9998783	.9999554	.9999843
14	.9807839	.9906599	.9956000	.9980944	.9991967	.9996759	.9998746	.9999535
15	.9645484	.9816937	.9910185	.9958037	.9981208	.9992027	.9996747	.9998728

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 1[illegible]

n \ p	.17	.18	.19	.20	.21	.22	.23	.24
16	.9390540	.9666042	.9826354	.9914131	.9959535	.9981796	.9992169	.9996775
17	.9018491	.9430038	.9686247	.9835925	.9919329	.9961235	.9982426	.9992380
18	.8511966	.9085683	.9467795	.9705965	.9845520	.9922687	.9963082	.9983156
19	.7866435	.8615344	.9148957	.9503804	.9725093	.9855038	.9927128	.9965031
20	.7094008	.8012176	.8712031	.9208543	.9538075	.9743561	.9864388	.9931592
21	.6223865	.7283959	.8148343	.8802559	.9264649	.9570633	.9761315	.9873515
22	.5298808	.6454250	.7462041	.8275747	.8887391	.9317469	.9601510	.9778321
23	.4356684	.5560150	.6671754	.7629204	.8395089	.8966936	.9367180	.9630746
24	.3482411	.4647088	.5809353	.6877247	.7786282	.8506982	.9041552	.9413944
25	.2686673	.3771863	.4915890	.6046962	.7071511	.7934006	.8611963	.9111569
26	.1990984	.2945729	.4035680	.5175162	.6273501	.7255249	.8073024	.8710508
27	.1425938	.2229183	.3209796	.4303362	.5424985	.6489472	.7429096	.8203913
28	.0984441	.1629039	.2470768	.3471923	.4564534	.5665517	.6695348	.7593630
29	.0655027	.1149100	.1839271	.2714719	.3731312	.4818926	.5896937	.6891574
30	.0420045	.0782324	.1323373	.2055430	.2959919	.3987305	.5066346	.6119440
31	.0259815	.0513893	.0919996	.1506023	.2276406	.3205439	.4239351	.5306668
32	.0154678	.0325717	.0617825	.1067303	.1696159	.2501178	.3450466	.4486996
33	.0088855	.0199215	.0400756	.0731549	.1223790	.1892850	.2728818	.3694287
34	.0049227	.0117591	.0251090	.0484762	.0854701	.1388509	.2095206	.2958470
35	.0026310	.0067001	.0151964	.0310559	.0577879	.0986863	.1560825	.2302387
36	.0013569	.0036858	.0088853	.0192351	.0377802	.0679375	.1127570	.1740029
37	.0006755	.0019581	.0050188	.0115187	.0239068	.0452920	.0788656	.1276331
38	.0003247	.0010049	.0027407	.0066698	.0146374	.0292377	.0535953	.0904275
39	.0001508	.0004983	.0014465	.0037350	.0086718	.0182749	.0352403	.0626080
40	.0000676	.0002388	.0007381	.0020230	.0049717	.0110601	.0224610	.0419536
41	.0000293	.0001106	.0003642	.0010601	.0027586	.0064014	.0138669	.0272213
42	.0000123	.0000496	.0001738	.0005375	.0014816	.0036781	.0082945	.0171224
43	.0000050	.0000215	.0000803	.0002637	.0007703	.0020214	.0048070	.0104404
44	.0000020	.0000090	.0000359	.0001253	.0003878	.0010760	.0026993	.0061711
45	.0000007	.0000037	.0000155	.0000576	.0001891	.0005540	.0014680	.0035360
46	.0000003	.0000014	.0000065	.0000256	.0000893	.0002772	.0007746	.0019642
47	.0000001	.0000005	.0000026	.0000111	.0000408	.0001342	.0003959	.0010578
48		.0000002	.0000010	.0000046	.0000181	.0000629	.0001961	.0005523
49		.0000001	.0000004	.0000019	.0000078	.0000286	.0000942	.0002796
50			.0000001	.0000007	.0000032	.0000126	.0000438	.0001373
51			.0000001	.0000003	.0000013	.0000054	.0000198	.0000654
52				.0000001	.0000005	.0000022	.0000087	.0000302
53					.0000002	.0000009	.0000037	.0000135
54					.0000001	.0000003	.0000015	.0000059
55						.0000001	.0000006	.0000025
56							.0000002	.0000010
57							.0000001	.0000004
58								.0000002
59								.0000001

n \ p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999984	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999947	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999834	.9999943	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000
15	.9999523	.9999828	.9999940	.9999980	.9999994	.9999998	.9999999	1.0000000
16	.9998727	.9999518	.9999824	.9999939	.9999979	.9999993	.9999998	.9999999
17	.9996836	.9998741	.9999519	.9999824	.9999938	.9999979	.9999993	.9999998
18	.9992648	.9996926	.9998768	.9999526	.9999825	.9999938	.9999979	.9999993
19	.9983960	.9992960	.9997040	.9998807	.9999539	.9999829	.9999939	.9999979
20	.9967043	.9984818	.9993306	.9997173	.9998855	.9999555	.9999834	.9999941
21	.9936027	.9969084	.9985711	.9993677	.9997320	.9998911	.9999576	.9999841
22	.9882366	.9940392	.9971129	.9986622	.9994065	.9997477	.9998972	.9999598
23	.9794556	.9890902	.9944652	.9973152	.9987538	.9994461	.9997641	.9999037
24	.9655387	.9810008	.9899095	.9948783	.9975135	.9988447	.9994860	.9997809
25	.9457915	.9684478	.9824675	.9906926	.9952762	.9977084	.9989340	.9995256
26	.9177256	.9499235	.9709069	.9838560	.9914380	.9956574	.9978925	.9990209
27	.8803043	.9238894	.9538036	.9732213	.9851671	.9921449	.9960209	.9980710
28	.8327192	.8889948	.9296715	.9574444	.9753961	.9864022	.9928130	.9963657
29	.7749373	.8443325	.8971569	.9350917	.9608576	.9774366	.9875629	.9934423
30	.7078572	.7896805	.8552735	.9048218	.9401760	.9640544	.9793479	.9886511
31	.6333237	.7256736	.8036363	.8655804	.9120179	.9449369	.9670453	.9811354
32	.5539816	.6538542	.7426438	.8168452	.8752884	.9187716	.9493938	.9698405
33	.4729065	.5765755	.6735573	.7588028	.8293441	.8844296	.9251069	.9535622
34	.3936277	.4967552	.5994482	.6924548	.7741035	.8411676	.8930337	.9310162
35	.3189371	.4175893	.5200104	.6196020	.7105683	.7898169	.8523475	.9011283
36	.2513599	.3420818	.4412656	.5427019	.6400412	.7279192	.8027323	.8629137
37	.1925427	.2728099	.3652175	.4646150	.5648233	.6597717	.7445282	.8159573
38	.1432634	.2116340	.2945190	.3882869	.4876012	.5863619	.6788008	.7604159
39	.1034941	.1595954	.2312115	.3164223	.4112377	.5101924	.6073077	.6971365
40	.0726625	.1169331	.1765762	.2512119	.3384593	.4349228	.5323609	.6276532
41	.0493637	.0832068	.1311091	.1941519	.2715750	.3605736	.4565995	.5540827
42	.0325777	.0574841	.0946049	.1459851	.2122729	.2922428	.3827126	.4789289
43	.0208541	.0385480	.0663159	.1067373	.1615220	.2308845	.3131601	.4048277
44	.0129474	.0250868	.0451464	.0758562	.1195815	.1776801	.2499369	.3342744
45	.0077962	.0158425	.0298427	.0523835	.0860989	.1331129	.1944188	.2693804
46	.0045528	.0097075	.0191511	.0351412	.0602665	.0970340	.1473044	.2116969
47	.0025785	.0057712	.0119299	.0228967	.0409990	.0687994	.1086509	.1621374
48	.0014164	.0033289	.0072134	.0144876	.0271012	.0474299	.0779833	.1209333
49	.0007546	.0018630	.0042332	.0089011	.0174037	.0317844	.0544455	.0878164
50	.0003899	.0010115	.0024111	.0053097	.0108560	.0207003	.0369644	.0620545

$$P(r;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 129

r	.25	.26	.27	.28	.29	.30	.31	.32
51	.0001555	.0003329	.0013328	.0030750	.0065770	.0130997	.0243983	.0426572
52	.0000950	.0002224	.0007151	.0017289	.0038696	.0080540	.0156531	.0285176
53	.0000448	.0001351	.0003723	.0009437	.0022109	.0048103	.0097596	.0185367
54	.0000205	.0000650	.0001881	.0005000	.0012266	.0027906	.0059120	.0117189
55	.0000091	.0000304	.0000923	.0002572	.0006608	.0015724	.0034804	.0071934
56	.0000039	.0000138	.0000439	.0001284	.0003456	.0008605	.0019902	.0042932
57	.0000016	.0000061	.0000203	.0000622	.0001755	.0004573	.0011055	.0024897
58	.0000007	.0000026	.0000091	.0000293	.0000865	.0002360	.0005965	.0014028
59	.0000003	.0000011	.0000040	.0000134	.0000414	.0001183	.0003126	.0007678
60	.0000001	.0000004	.0000017	.0000059	.0000193	.0000576	.0001591	.0004082
61		.0000002	.0000007	.0000026	.0000087	.0000272	.0000786	.0002108
62		.0000001	.0000003	.0000011	.0000038	.0000125	.0000377	.0001057
63			.0000001	.0000004	.0000016	.0000056	.0000176	.0000515
64				.0000002	.0000007	.0000024	.0000080	.0000244
65				.0000001	.0000003	.0000010	.0000035	.0000112
66					.0000001	.0000004	.0000015	.0000050
67						.0000002	.0000006	.0000022
68						.0000001	.0000002	.0000009
69							.0000001	.0000004
70								.0000001
71								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999943	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
22	.9999840	.9999946	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000
23	.9999623	.9999859	.9999949	.9999982	.9999994	.9999998	.9999999	1.0000000
24	.9999105	.9999649	.9999868	.9999953	.9999984	.9999995	.9999998	.9999999
25	.9997977	.9999173	.9999676	.9999878	.9999956	.9999985	.9999995	.9999998
26	.9995644	.9998143	.9999242	.9999703	.9999889	.9999960	.9999986	.9999995
27	.9991047	.9996021	.9998306	.9999309	.9999730	.9999899	.9999964	.9999988
28	.9982410	.9991850	.9996383	.9998463	.9999374	.9999756	.9999909	.9999967
29	.9966914	.9984022	.9992613	.9996729	.9998613	.9999437	.9999781	.9999919
30	.9940332	.9969978	.9985541	.9993333	.9997057	.9998756	.9999497	.9999805
31	.9896689	.9945862	.9972448	.9986966	.9994010	.9997365	.9998890	.9999553
32	.9828043	.9906108	.9951022	.9975527	.9988296	.9994642	.9997652	.9999016
33	.9724495	.9843595	.9915030	.9955822	.9978017	.9989531	.9995229	.9997919
34	.9574584	.9746815	.9858063	.9923242	.9960273	.9980323	.9990674	.9995770
35	.9366103	.9610954	.9771453	.9871497	.9930850	.9964389	.9982451	.9991726
36	.9087380	.9418186	.9644869	.9792493	.9883945	.9937880	.9968181	.9984406
37	.8728941	.9158892	.9466895	.9676457	.9812017	.9895457	.9944360	.9971666
38	.8285183	.8823146	.9226018	.9512399	.9705837	.9830102	.9906079	.9950316
39	.7756021	.8404402	.8912001	.9288977	.9554861	.9733124	.9846824	.9915858
40	.7147879	.7901063	.8517467	.8995737	.9347968	.9594436	.9758428	.9862256
41	.6473931	.7317646	.8039473	.8624604	.9074574	.9403179	.9631268	.9781853
42	.5753368	.6665238	.7480768	.8171438	.8726631	.9148723	.9454789	.9665497
43	.5009760	.5961051	.6850434	.7637348	.8297136	.8821955	.9218383	.9502969
44	.4266733	.5227089	.6163719	.7029511	.7787496	.8416744	.8912577	.9283745
45	.3555356	.4488072	.5440988	.6361236	.7202477	.7931322	.8530433	.8998088
46	.2891666	.3768961	.4705902	.5651194	.6553487	.7369346	.8068938	.8638373
47	.2294734	.3092486	.3983109	.4921857	.5857470	.6740374	.7530143	.8200459
48	.1775522	.2477071	.3295805	.4197369	.5135595	.6059600	.6921814	.7684901
49	.1338648	.1935476	.2663573	.3501181	.4411333	.5346800	.6257389	.7097737
50	.0982947	.1474266	.2100817	.2853834	.3708187	.4624614	.5555174	.6450659
51	.0702634	.1094116	.1615982	.2271221	.3047453	.3916407	.4836843	.5760442
52	.0488769	.0790765	.1211586	.1763576	.2446355	.3244035	.4125439	.5047669
53	.0330764	.0556357	.0884959	.1335251	.1916817	.2625887	.3443192	.4334897
54	.0217700	.0380920	.0629441	.0985217	.1464989	.2075461	.2809480	.3644536
55	.0139324	.0253723	.0435801	.0708106	.1091520	.1600661	.2239254	.2996794
56	.0086684	.0164370	.0293617	.0495550	.0792422	.1203833	.1742113	.2407936
57	.0052423	.0103544	.0193448	.0337556	.0560298	.0882440	.1322104	.1881180
58	.0030811	.0063414	.0123681	.0223738	.0385705	.0630163	.0978197	.1446265
59	.0017597	.0037750	.0076046	.0144261	.0258415	.0438220	.0705249	.1079715
60	.0009765	.0021841	.0045828	.0090463	.0168452	.0296650	.0495248	.0785647
61	.0005264	.0012279	.0026844	.0055158	.0106811	.0195419	.0338608	.0556927
62	.0002757	.0006708	.0015282	.0032695	.0065862	.0125238	.0225327	.0384450
63	.0001402	.0003560	.0008454	.0018836	.0039465	.0078061	.0145893	.0258338
64	.0000693	.0001835	.0004543	.0010546	.0023010	.0047310	.0091882	.0169925
65	.0000332	.0000919	.0002372	.0005737	.0013032	.0027874	.0056278	.0107453
66	.0000155	.0000447	.0001203	.0003032	.0007171	.0015961	.0033504	.0066472
67	.0000070	.0000211	.0000592	.0001556	.0003834	.0008881	.0019389	.0039980
68	.0000031	.0000097	.0000283	.0000776	.0001991	.0004801	.0010904	.0023378
69	.0000013	.0000043	.0000131	.0000375	.0001004	.0002521	.0005967	.0013278
70	.0000005	.0000019	.0000059	.0000176	.0000492	.0001286	.0003161	.0007328

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

N	.33	.34	.35	.36	.37	.38	.39	.40
71	.0000002	.0000008	.0000026	.0000080	.0000234	.0000636	.0001629	.0003920
72	.0000001	.0000003	.0000011	.0000036	.0000108	.0000306	.0000815	.0002040
73		.0000001	.0000005	.0000015	.0000048	.0000143	.0000396	.0001011
74			.0000002	.0000006	.0000021	.0000065	.0000187	.0000507
75			.0000001	.0000003	.0000009	.0000028	.0000085	.0000244
76				.0000001	.0000004	.0000012	.0000036	.0000113
77					.0000001	.0000005	.0000015	.0000050
78					.0000001	.0000002	.0000007	.0000021
79						.0000001	.0000003	.0000009
80							.0000001	.0000004
81								.0000001
82								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999971	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999928	.9999974	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
31	.9999827	.9999936	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000
32	.9999605	.9999848	.9999944	.9999980	.9999995	.9999998	.9999999	1.0000000
33	.9999132	.9999653	.9999868	.9999952	.9999989	.9999997	.9999999	.9999999
34	.9998165	.9999239	.9999698	.9999885	.9999969	.9999996	.9999999	.9999999
35	.9996268	.9998390	.9999335	.9999738	.9999901	.9999985	.9999998	.9999999
36	.9992690	.9996722	.9998595	.9999424	.9999775	.9999916	.9999979	.9999998
37	.9986197	.9993569	.9997136	.9998781	.9999504	.9999808	.9999959	.9999995
38	.9974856	.9987830	.9994368	.9997509	.9998948	.9999575	.9999837	.9999990
39	.9955777	.9977768	.9989314	.9995091	.9997845	.9999097	.9999639	.9999968
40	.9924840	.9960768	.9980417	.9990657	.9995741	.9998146	.9999230	.9999895
41	.9876467	.9933060	.9965316	.9982818	.9991066	.9996323	.9998413	.9999747
42	.9803499	.9889527	.9940587	.9969448	.9984986	.9992952	.9996842	.9999450
43	.9697257	.9823464	.9901499	.9947478	.9971190	.9986936	.9993922	.9997302
44	.9547881	.9726674	.9841039	.9913440	.9945663	.9976568	.9988683	.9994785
45	.9344993	.9589682	.9753872	.9858715	.9902436	.9959302	.9979603	.9990843
46	.9078677	.9402302	.9628522	.9778967	.9834177	.9931522	.9964393	.9982323
47	.8740729	.9154522	.9455844	.9664546	.9732073	.9888308	.9939762	.9968974
48	.8326002	.8837662	.9225800	.9505783	.9587893	.9823301	.9901190	.9947214
49	.7833661	.8445684	.8929332	.9292681	.9392699	.9728699	.9842755	.9913899
50	.7269090	.7976469	.8559623	.9015897	.9135333	.9595485	.9757094	.9860539
51	.6639251	.7432826	.8111378	.8667941	.8809514	.9413918	.9635553	.9783206
52	.5962346	.6823021	.7591914	.8244447	.8410759	.9174335	.9468597	.9672631
53	.5256759	.6160646	.7001837	.7745330	.7936741	.8868200	.9246514	.9519526
54	.4544402	.5463794	.6355115	.7175583	.7389060	.8489330	.8960391	.9314202
55	.3847697	.4753593	.5668472	.6545545	.6774155	.8035100	.8603287	.9047456
56	.3187491	.4052298	.4962117	.5870505	.6096740	.7507461	.8171454	.8711692
57	.2581236	.3381230	.4257975	.5169633	.5369616	.6913517	.7665419	.8302134
58	.2041682	.2758679	.3577673	.4464371	.4615011	.6265543	.7090706	.7817960
59	.1576234	.2199429	.2940584	.3776479	.3857132	.5580329	.6458036	.7263150
60	.1187001	.1711913	.2362222	.3126064	.3122310	.4877910	.5782878	.6646856
61	.0871436	.1300047	.1853196	.2529049	.2515026	.4179827	.5084365	.5983154
62	.0623386	.0962683	.1418032	.1999959	.1982092	.3507174	.4383691	.5290159
63	.0434331	.0694744	.1059444	.1543325	.1522070	.2870723	.3702209	.4588566
64	.0294611	.0488401	.0771112	.1161761	.1134479	.2309385	.3059504	.3899823
65	.0194486	.0334310	.0546802	.0852592	.0826668	.1809237	.2471748	.3244193
66	.0124906	.0222727	.0377585	.0609674	.0593277	.1383185	.1950531	.2636995
67	.0078019	.0144374	.0253799	.0424593	.0417148	.1031250	.1502325	.2097200
68	.0047392	.0091023	.0165992	.0287854	.0285484	.0749352	.1128589	.1627089
69	.0027971	.0055798	.0105595	.0189897	.0189044	.0530405	.0826407	.1231362
70	.0016045	.0033248	.0065316	.0121854	.0121228	.0365519	.0589503	.0908428
71	.0008942	.0019251	.0039271	.0076029	.0076915	.0245126	.0409430	.0659220
72	.0004840	.0010829	.0022943	.0046109	.0046831	.0159903	.0276733	.0456928
73	.0002544	.0005916	.0013021	.0027171	.0027834	.0101421	.0181939	.0311191
74	.0001298	.0003138	.0007177	.0015553	.0015987	.0062522	.0116301	.0206150
75	.0000643	.0001616	.0003840	.0008645	.0008461	.0037447	.0072252	.0132774
76	.0000309	.0000807	.0001994	.0004665	.0004345	.0021782	.0043606	.0083104
77	.0000144	.0000391	.0001005	.0002442	.0002626	.0012301	.0025557	.0050527
78	.0000065	.0000184	.0000491	.0001241	.0001469	.0006741	.0014540	.0029829
79	.0000028	.0000084	.0000233	.0000611	.0000820	.0003584	.0008027	.0017091
80	.0000012	.0000037	.0000107	.0000292	.0000454	.0001848	.0004398	.0009501
81	.0000005	.0000016	.0000048	.0000135	.0000363	.0000924	.0002332	.0005122

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 129

x	.41	.42	.43	.44	.45	.46	.47	.48
82	.0000002	.0000007	.0000021	.0000061	.0000169	.0000447	.0001183	.0002677
83	.0000001	.0000003	.0000009	.0000026	.0000076	.0000210	.0000547	.0001355
84		.0000001	.0000003	.0000011	.0000033	.0000095	.0000250	.0000665
85			.0000001	.0000005	.0000014	.0000042	.0000118	.0000316
86			.0000001	.0000002	.0000006	.0000018	.0000052	.0000145
87				.0000001	.0000002	.0000007	.0000022	.0000064
88					.0000001	.0000003	.0000009	.0000028
89						.0000001	.0000004	.0000011
90							.0000001	.0000005
91							.0000001	.0000002
92								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	.9999999	1.0000000
36	.9999997	.9999999
37	.9999992	.9999997
38	.9999979	.9999993
39	.9999950	.9999983
40	.9999885	.9999959
41	.9999744	.9999904
42	.9999450	.9999786
43	.9998858	.9999540
44	.9997708	.9999040
45	.9995548	.9998064
46	.9991628	.9996221
47	.9984751	.9992854
48	.9973082	.9986908
49	.9953930	.9976752
50	.9923511	.9959962
51	.9876750	.9933098
52	.9807157	.9891485
53	.9706860	.9829066
54	.9566861	.9738382
55	.9377552	.9610753
56	.9139526	.9436713
57	.8844631	.9206731
58	.8497160	.8912194
59	.7965024	.8546561
60	.7430703	.8106562
61	.6831775	.7593239
62	.6180866	.7012575
63	.5494962	.6375728
64	.4794115	.5698447
65	.4099709	.5000000
66	.3432535	.4301553
67	.2810949	.3624272
68	.2249394	.2987425
69	.1757466	.2406771
70	.1339628	.1893438
71	.0995526	.1453439
72	.0720796	.1087806
73	.0508164	.0793269
74	.0348647	.0563287
75	.0232666	.0389247
76	.0150948	.0261618
77	.0095163	.0170934
78	.0058271	.0108515
79	.0034640	.0066902
80	.0019984	.0040038
81	.0011183	.0023248
82	.0006067	.0013092

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 129

c	.49	.50
83	.0003190	.0007146
84	.0001625	.0003779
85	.0000801	.0001936
86	.0000383	.0000960
87	.0000177	.0000460
88	.0000079	.0000214
89	.0000034	.0000096
90	.0000014	.0000041
91	.0000006	.0000017
92	.0000002	.0000007
93	.0000001	.0000003
94		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 130

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7292457	.9276581	.9809311	.9950425	.9987292	.9996789	.9999201	.9999804
2	.3737098	.7357307	.9042684	.9681896	.9900344	.9970146	.9991378	.9997567
3	.1420738	.4830914	.7513201	.8960222	.9605180	.9860455	.9953401	.9985156
4	.0422427	.2631063	.5494995	.7677846	.8942353	.9561722	.9831441	.9939033
5	.0102265	.1205649	.3513197	.5979977	.7834736	.8956311	.9539981	.9811694
6	.0020769	.0472579	.1968622	.4197844	.6365625	.7982508	.8987146	.9533655
7	.0003619	.0160899	.0973406	.2650853	.4754864	.6687842	.8180247	.9027150
8	.0000551	.0048222	.0428168	.1509027	.3253085	.5223333	.6964361	.8248485
9	.0000074	.0012867	.0168890	.0777544	.2037813	.3786383	.5626746	.7207442
10	.0000009	.0003086	.0060192	.0364392	.1170777	.2543064	.4261943	.5980320
11	.0000001	.0000671	.0019514	.0156095	.0618612	.1582799	.3018945	.4689174
12		.0000133	.0005790	.0061414	.0301579	.0914142	.1998301	.3464371
13		.0000024	.0001581	.0022298	.0136111	.0490897	.1236477	.2406800
14		.0000004	.0000399	.0007496	.0057061	.0245678	.0715991	.1574567
15		.0000001	.0000093	.0002344	.0022291	.0114869	.0388589	.0968760
16			.0000020	.0000684	.0008139	.0050300	.0198015	.0561376
17			.0000004	.0000187	.0002785	.0020677	.0094915	.0306761
18			.0000001	.0000048	.0000896	.0007990	.0042877	.0158290
19				.0000012	.0000271	.0002917	.0018887	.0077241
20				.0000003	.0000078	.0001005	.0007377	.0035696
21				.0000001	.0000021	.0000328	.0002819	.0015646
22					.0000005	.0000101	.0001023	.0006514
23					.0000001	.0000030	.0000352	.0002579
24						.0000008	.0000116	.0000978
25						.0000002	.0000036	.0000350
26						.0000001	.0000011	.0000120
27							.0000003	.0000039
28							.0000001	.0000012
29								.0000004
30								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999953	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999344	.9999826	.9999955	.9999989	.9999997	.9999999	1.0000000	1.0000000
3	.9995460	.9998661	.9999618	.9999894	.9999972	.9999993	.9999998	1.0000000
4	.9979070	.9993135	.9997838	.9999344	.9999808	.9999945	.9999985	.9999996
5	.9927604	.9973641	.9990855	.9996962	.9999030	.9999702	.9999911	.9999975
6	.9799334	.9919059	.9969105	.9988778	.9996104	.9998703	.9999584	.9999878
7	.9535043	.9792712	.9913102	.9965528	.9986993	.9995314	.9998382	.9999464
8	.9072015	.9544026	.9799469	.9909364	.9963878	.9985541	.9994624	.9998006
9	.8367933	.9119104	.9557489	.9791612	.9907476	.9961080	.9984427	.9994053
10	.7433998	.8479320	.9167119	.9573948	.9795256	.9907102	.9960034	.9983639
11	.6294388	.7619044	.8583320	.9214803	.9598357	.9800778	.9907948	.9959637
12	.5075689	.6576287	.7796174	.8600539	.9261612	.9611958	.9807676	.9909762
13	.3880306	.5427322	.6831404	.7958067	.8771514	.9307137	.9632199	.9815554
14	.2807245	.4268537	.5749061	.7063819	.8106784	.8856723	.9351120	.9652675
15	.1920386	.3192523	.4631104	.6044724	.7276690	.8243949	.8936586	.9393398
16	.1241980	.2267947	.3562554	.4970043	.6317471	.7472520	.8370869	.9011479
17	.0759776	.1529571	.2613315	.3916733	.5287274	.6569903	.7653324	.8488614
18	.0439969	.0979408	.1826570	.2953546	.4254988	.5584556	.6804187	.7820752
19	.0241408	.0595653	.1216131	.2188999	.3286643	.4577557	.5863477	.7028145
20	.0125646	.0344304	.0771307	.1466206	.2433705	.3611852	.4884905	.6125463
21	.0062107	.0189306	.0466313	.0964592	.1726350	.2738198	.3926481	.5177542
22	.0029189	.0099095	.0268807	.0606296	.1172703	.1993733	.3040542	.4231771
23	.0013059	.0049434	.0147862	.0364224	.0762819	.1393282	.2265938	.3339225
24	.0005568	.0023524	.0077670	.0209223	.0475224	.0934292	.1684067	.2540923
25	.0002265	.0010688	.0038992	.0114987	.0283632	.0601168	.1119065	.1863000
26	.0000880	.0004642	.0018723	.0060503	.0162246	.0371236	.0741205	.1315496
27	.0000327	.0001928	.0008606	.0030498	.0088996	.0220072	.0471915	.0894339
28	.0000116	.0000767	.0003790	.0014738	.0046836	.0125286	.0288069	.0585343
29	.0000040	.0000292	.0001600	.0006832	.0023662	.0068525	.0170042	.0368835
30	.0000013	.0000107	.0000648	.0003041	.0011482	.0036024	.0096288	.0223785
31	.0000004	.0000038	.0000253	.0001300	.0005355	.0018218	.0052469	.0130769
32	.0000001	.0000013	.0000094	.0000534	.0002402	.0008859	.0027525	.0073616
33		.0000004	.0000034	.0000211	.0001036	.0004148	.0013907	.0039937
34		.0000001	.0000012	.0000080	.0000431	.0001870	.0006770	.0020886
35			.0000004	.0000029	.0000172	.0000813	.0003177	.0010534
36			.0000001	.0000010	.0000066	.0000340	.0001437	.0005125
37				.0000004	.0000025	.0000138	.0000627	.0002406
38				.0000001	.0000009	.0000054	.0000264	.0001091
39					.0000003	.0000020	.0000108	.0000478
40					.0000001	.0000007	.0000042	.0000208
41						.0000003	.0000016	.0000083
42						.0000001	.0000006	.0000033
43							.0000002	.0000012
44							.0000001	.0000005
45								.0000002
46								.0000001

r	.17	.18	.19	.20	.21	.22	.83	.84
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999962	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999889	.9999947	.9999984	.9999995	.9999999	1.0000000	1.0000000	1.0000000
8	.9999346	.9999785	.9999932	.9999979	.9999994	.9999998	1.0000000	1.0000000
9	.9997826	.9999238	.9999743	.9999917	.9999974	.9999993	.9999998	.9999999
10	.9993607	.9997610	.9999143	.9999705	.9999902	.9999969	.9999990	.9999997
11	.9983150	.9993886	.9997446	.9999064	.9999672	.9999889	.9999964	.9999989
12	.9959766	.9985930	.9993081	.9997317	.9999003	.9999644	.9999878	.9999960
13	.9913330	.9960386	.9982943	.9992905	.9997239	.9998959	.9999623	.9999869

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 130

x	.17	.18	.19	.20	.21	.22	.23	.24
14	.9824103	.9915473	.9961357	.9983155	.9993985	.9997804	.9999032	.9999609
15	.9673084	.9833076	.9919042	.9962618	.9983533	.9993068	.9997207	.9998981
16	.9433880	.9693303	.9842282	.9928912	.9964104	.9984047	.9993228	.9997243
17	.9081739	.9372519	.9712868	.9851566	.9926982	.9965758	.9984667	.9993435
18	.8598075	.9147667	.9509301	.9731957	.9860810	.9931167	.9967531	.9985370
19	.7976175	.8700005	.9209537	.9544236	.9750363	.9869918	.9935390	.9969301
20	.7225321	.8120746	.8795047	.9267595	.9577349	.9768085	.9878818	.9939618
21	.6371790	.7415038	.8255443	.8883756	.9328069	.9600677	.9785028	.9887454
22	.5456067	.6603598	.7598438	.8381109	.8966616	.9373164	.9638265	.9801167
23	.4526805	.5781088	.6831909	.7755513	.8490473	.9044053	.9421076	.9666164
24	.3633078	.4811439	.5973209	.7027639	.7914131	.8608178	.9116446	.9465977
25	.2816968	.3921204	.5085655	.6213019	.7221613	.8060060	.8710768	.9184134
26	.2108231	.3092633	.4202922	.5349522	.6441084	.7404575	.8196280	.8806761
27	.1521996	.2358112	.3366714	.4477722	.5603173	.6657943	.7577200	.8325496
28	.1059495	.1737054	.2611184	.3638210	.4745229	.5846707	.6864110	.7744098
29	.0711088	.1235555	.1959255	.2866160	.3906289	.5005176	.6080571	.7060067
30	.0459992	.0848358	.1421394	.2187288	.3121911	.4170261	.5257382	.6304752
31	.0286888	.0562211	.0996630	.1615904	.2419943	.3377449	.4489560	.5501733
32	.0172517	.0359589	.0675237	.1155111	.1818011	.2656115	.3631909	.4683717
33	.0100045	.0221985	.0441999	.0790716	.1322988	.2026602	.2894795	.3884537
34	.0055964	.0132283	.0279526	.0534119	.0933210	.1499464	.2240936	.3135066
35	.0030206	.0076107	.0170798	.0345400	.0635854	.1075235	.1683733	.2459847
36	.0015735	.0042284	.0100844	.0215992	.0419776	.0747023	.1227219	.1874995
37	.0007913	.0022691	.0057542	.0130619	.0268202	.0502740	.0867376	.1387619
38	.0003843	.0011765	.0031738	.0076396	.0165840	.0327697	.0594305	.0996600
39	.0001803	.0005895	.0016924	.0043220	.0099246	.0206867	.0394681	.0694414
40	.0000818	.0002855	.0008727	.0023654	.0057487	.0126473	.0254021	.0469299
41	.0000358	.0001337	.0004352	.0012526	.0032233	.0074887	.0158435	.0307571
42	.0000152	.0000606	.0002100	.0006420	.0017498	.0042943	.0095761	.0195461
43	.0000062	.0000265	.0000981	.0003185	.0009197	.0023859	.0056091	.0120441
44	.0000025	.0000113	.0000443	.0001529	.0004681	.0012840	.0031841	.0071958
45	.0000009	.0000046	.0000194	.0000711	.0002308	.0006695	.0017518	.0041684
46	.0000004	.0000018	.0000082	.0000320	.0001102	.0003383	.0009342	.0023414
47	.0000001	.0000007	.0000034	.0000140	.0000510	.0001656	.0004830	.0012753
48		.0000003	.0000013	.0000059	.0000229	.0000786	.0002421	.0006736
49		.0000001	.0000005	.0000024	.0000099	.0000362	.0001176	.0003451
50			.0000002	.0000010	.0000042	.0000161	.0000554	.0001715
51			.0000001	.0000004	.0000017	.0000070	.0000253	.0000826
52				.0000001	.0000007	.0000029	.0000112	.0000386
53					.0000003	.0000012	.0000048	.0000175
54					.0000001	.0000005	.0000020	.0000077
55						.0000002	.0000009	.0000033
56						.0000001	.0000003	.0000014
57							.0000001	.0000005
58								.0000002
59								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999956	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999862	.9999953	.9999985	.9999995	.9999999	1.0000000	1.0000000	1.0000000
15	.9999600	.9999850	.9999951	.9999984	.9999995	.9999998	1.0000000	1.0000000
16	.9998926	.9999598	.9999856	.9999950	.9999983	.9999995	.9999998	1.0000000
17	.9997309	.9998943	.9999601	.9999856	.9999950	.9999983	.9999995	.9999998
18	.9993695	.9997398	.9998971	.9999610	.9999858	.9999950	.9999983	.9999995
19	.9986132	.9993991	.9997507	.9999008	.9999622	.9999862	.9999951	.9999984
20	.9971272	.9986935	.9994314	.9997630	.9999053	.9999637	.9999867	.9999953
21	.9943781	.9973175	.9987761	.9994656	.9997765	.9999104	.9999656	.9999873
22	.9895781	.9947852	.9975066	.9988597	.9995009	.9997907	.9999159	.9999676
23	.9816508	.9901769	.9951801	.9976923	.9989431	.9995366	.9998054	.9999317
24	.9692429	.9831041	.9911396	.9955606	.9978732	.9990251	.9995722	.9998808
25	.9508033	.9717116	.9844769	.9918646	.9959250	.9980479	.9991051	.9996073
26	.9247421	.9547398	.9740383	.9857703	.9925511	.9962731	.9982154	.9991824
27	.8896596	.9306583	.9584215	.9761990	.9869857	.9931987	.9966011	.9983750
28	.8446155	.8980674	.9361672	.9618619	.9788297	.9881250	.9938075	.9969114
29	.7893828	.8559447	.9059359	.9413519	.9650738	.9801263	.9891904	.9943778
30	.7246272	.8038900	.8665820	.9132979	.9461736	.9680690	.9818946	.9901843
31	.6519570	.7423154	.8175784	.8765680	.9201838	.9506722	.9708591	.9835404
32	.5738171	.6725272	.7591118	.8324910	.8859400	.9266212	.9548658	.9734549
33	.4932353	.5966679	.6922106	.7750547	.8426679	.8947322	.9326558	.9587715
34	.4134674	.5175159	.6187277	.7110322	.7901801	.8541462	.9024764	.9382514
35	.3376098	.4381750	.5411086	.6400008	.7290167	.8045221	.8644602	.9107020
36	.2682542	.3617137	.4625267	.5642339	.6604941	.7461885	.8181130	.8751424
37	.2078470	.2908205	.3857505	.4864793	.5866365	.6802160	.7625718	.8309834
38	.1585838	.2275397	.3136076	.4096587	.5099956	.6083849	.6991763	.7781898
39	.1194364	.1731854	.2483045	.3365444	.4333831	.5330432	.6294706	.7173859
40	.0892954	.1280253	.1913277	.2694709	.3595651	.4568737	.5555944	.6498879
41	.0651634	.0919756	.1433852	.2101294	.2909715	.3886084	.4800855	.5776253
42	.0467742	.0641720	.1044610	.1594721	.2294705	.3127420	.4056176	.5029781
43	.0327850	.0434714	.0739539	.1177266	.1762398	.2492920	.3347214	.4288401
44	.0224241	.0285067	.0508622	.0845039	.1317443	.1936415	.2695361	.3568514
45	.0090840	.0182460	.0339747	.0589559	.0958089	.1464831	.2116294	.2901465
46	.0053636	.0113025	.0220378	.0399691	.0677579	.1078581	.1619098	.2301556

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 130

c	.25	.26	.27	.28	.29	.30	.31	.32
47	.0030781	.0067947	.0138797	.0263252	.0465866	.0772700	.1220335	.1779897
48	.0017069	.0039639	.0084868	.0164422	.0311315	.0538408	.0874903	.1341154
49	.0009200	.0022441	.0050378	.0104653	.0206160	.0364781	.0617488	.0994130
50	.0004811	.0012329	.0029031	.0063153	.0127549	.0240255	.0423835	.0702903
51	.0002441	.0006573	.0016240	.0037007	.0076179	.0153799	.0288238	.0498643
52	.0001201	.0003401	.0008819	.0021058	.0046548	.0095677	.0183648	.0330423
53	.0000574	.0001700	.0004649	.0011635	.0026930	.0057854	.0115866	.0213305
54	.0000266	.0000832	.0002379	.0006242	.0015181	.0033965	.0071053	.0130965
55	.0000120	.0000394	.0001182	.0003252	.0008249	.0019379	.0042345	.0078396
56	.0000052	.0000181	.0000570	.0001645	.0004370	.0010741	.0024528	.0045213
57	.0000022	.0000081	.0000267	.0000808	.0002249	.0005783	.0013798	.0025668
58	.0000009	.0000035	.0000121	.0000385	.0001124	.0003024	.0007543	.0014206
59	.0000004	.0000015	.0000053	.0000178	.0000545	.0001536	.0004006	.0007710
60	.0000001	.0000006	.0000023	.0000080	.0000257	.0000758	.0002067	.0004133
61	.0000001	.0000002	.0000010	.0000035	.0000118	.0000363	.0001036	.0002240
62		.0000001	.0000004	.0000015	.0000052	.0000169	.0000504	.0001394
63			.0000002	.0000006	.0000023	.0000076	.0000238	.0000809
64			.0000001	.0000002	.0000009	.0000033	.0000109	.0000330
65				.0000001	.0000004	.0000014	.0000049	.0000154
66					.0000002	.0000006	.0000021	.0000070
67					.0000001	.0000003	.0000009	.0000031
68						.0000001	.0000004	.0000013
69							.0000001	.0000005
70							.0000001	.0000002
71								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999985	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999884	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999955	.9999985	.9999998	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999880	.9999956	.9999986	.9999995	.9999999	1.0000000	1.0000000	1.0000000
23	.9999698	.9999868	.9999960	.9999987	.9999996	.9999999	1.0000000	1.0000000
24	.9999276	.9999720	.9999897	.9999963	.9999988	.9999996	.9999999	1.0000000
25	.9998349	.9999135	.9999743	.9999905	.9999966	.9999989	.9999996	.9999999
26	.9996414	.9998453	.9999324	.9999765	.9999914	.9999969	.9999990	.9999997
27	.9992564	.9996742	.9998633	.9999451	.9999789	.9999928	.9999973	.9999991
28	.9985261	.9993268	.9997056	.9998767	.9999506	.9999810	.9999930	.9999975
29	.9972028	.9986683	.9993932	.9997353	.9998805	.9999558	.9999831	.9999938
30	.9949104	.9974753	.9988016	.9994556	.9997633	.9999015	.9999608	.9999850
31	.9911091	.9954061	.9977201	.9988258	.9995137	.9997894	.9999127	.9999654
32	.9850696	.9919677	.9958661	.9977645	.9990410	.9995677	.9998135	.9999330
33	.9758456	.9864876	.9927627	.9962916	.9981820	.9991473	.9996174	.9998358
34	.9634055	.9781040	.9878003	.9934971	.9966039	.9983822	.9992450	.9996630
35	.9434902	.9657827	.9801767	.9890125	.9941737	.9970444	.9985658	.9993343
36	.9179364	.9483727	.9689174	.9820935	.9901300	.9947951	.9973746	.9988334
37	.8847228	.9247452	.9529186	.9718230	.9838631	.9911578	.9953650	.9976768
38	.8431683	.8937300	.9310325	.9571460	.9745124	.9854937	.9921099	.9950056
39	.7930645	.8546775	.9021907	.9369409	.9610722	.9769976	.9869934	.9902641
40	.7348566	.8072198	.8655554	.9101303	.9434519	.9647137	.9792903	.9803697
41	.6696334	.7516008	.8206771	.8758312	.9175730	.9475857	.9680860	.9614014
42	.5991154	.6880757	.7676315	.8334578	.8854992	.9245416	.9523616	.9712040
43	.5255151	.6200475	.7071051	.7829621	.8455897	.8946127	.9310581	.9567980
44	.4513272	.5476636	.6404069	.7248333	.7976063	.8570724	.9031841	.9371434
45	.3790770	.4739338	.5693944	.6601815	.7418934	.8119782	.8679469	.9112351
46	.3110684	.4013459	.4963182	.5906609	.6793614	.7592897	.8248921	.8782359
47	.2491729	.3322487	.4236607	.5184418	.6114996	.6997983	.7740273	.8375625
48	.1945662	.2686312	.3536361	.4458185	.5402669	.6318094	.7159032	.7891124
49	.1482816	.2119618	.2884854	.3751809	.4679310	.5617664	.6516514	.7332603
50	.1100328	.1631077	.2297762	.3086479	.3968351	.4899045	.5829038	.6709491
51	.0795137	.1223367	.1785674	.2480961	.3291925	.4185536	.5116992	.6036529
52	.0559344	.0893905	.1353135	.1946328	.2668761	.3499537	.4403887	.5332770
53	.0382906	.0636056	.0999379	.1489448	.2112746	.2860784	.3709268	.4620006
54	.0255011	.0440569	.0718073	.1111029	.1632165	.2284623	.3056627	.3920681
55	.0165188	.0296970	.0503575	.0807866	.1229704	.1781085	.2461642	.3255091
56	.0104055	.0194750	.0343301	.0572070	.0903088	.1354628	.1935998	.2643479
57	.0063729	.0124235	.0227857	.0394434	.0646184	.1004569	.1485903	.2096682
58	.0037945	.0077058	.0147099	.0264713	.0450304	.0726028	.1113321	.1633431
59	.0021957	.0046476	.0092368	.0173073	.0305512	.0511158	.0811649	.1236335
60	.0012349	.0027250	.0056404	.0109831	.0201738	.0350446	.0577146	.0913274
61	.0006749	.0015530	.0033469	.0067868	.0129619	.0233867	.0399698	.0648415
62	.0003584	.0008602	.0019329	.0040782	.0081013	.0151907	.0269507	.0453441
63	.0001849	.0004630	.0010844	.0023825	.0049244	.0095980	.0176872	.0308783
64	.0000927	.0002431	.0005912	.0013530	.0029105	.0058996	.0112946	.0204690
65	.0000451	.0001230	.0003138	.0007468	.0016734	.0035260	.0070160	.0132042
66	.0000213	.0000607	.0001612	.0004006	.0009340	.0020488	.0042384	.0082865
67	.0000098	.0000291	.0000806	.0002087	.0005069	.0011574	.0024894	.0050577

$$F(n;p) = \sum_{k=0}^{n} \binom{n}{k} p^k (1-p)^{n-k} \qquad n = 150$$

k	.33	.34	.35	.36	.37	.38	.39	.40
60	.0000044	.0000135	.0000391	.0001057	.0003673	.0006152	.0014017	.0030015
69	.0000019	.0000061	.0000185	.0000520	.0001369	.0003387	.0007806	.0017315
70	.0000008	.0000027	.0000085	.0000248	.0000681	.0001755	.0004252	.0009700
71	.0000003	.0000011	.0000038	.0000115	.0000329	.0000883	.0002207	.0005208
72	.0000001	.0000005	.0000016	.0000052	.0000154	.0000432	.0001131	.0002708
73		.0000002	.0000007	.0000023	.0000070	.0000205	.0000556	.0001436
74		.0000001	.0000003	.0000010	.0000031	.0000094	.0000265	.0000718
75			.0000001	.0000004	.0000013	.0000043	.0000125	.0000348
76				.0000002	.0000006	.0000018	.0000056	.0000163
77				.0000001	.0000002	.0000008	.0000025	.0000074
78					.0000001	.0000003	.0000010	.0000033
79						.0000001	.0000004	.0000014
80							.0000001	.0000006
81							.0000001	.0000002
82								.0000001

k	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999945	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
31	.9999869	.9999952	.9999983	.9999995	.9999999	.9999999	1.0000000	1.0000000
32	.9999696	.9999885	.9999959	.9999986	.9999998	.9999999	1.0000000	1.0000000
33	.9999380	.9999735	.9999901	.9999964	.9999988	.9999998	.9999999	1.0000000
34	.9998561	.9999413	.9999771	.9999915	.9999970	.9999990	.9999997	.9999999
35	.9997046	.9998746	.9999492	.9999803	.9999927	.9999974	.9999991	.9999997
36	.9994157	.9997423	.9998914	.9999563	.9999818	.9999938	.9999978	.9999993
37	.9988859	.9994894	.9997763	.9999064	.9999626	.9999857	.9999948	.9999982
38	.9979506	.9990241	.9995558	.9998069	.9999288	.9999680	.9999880	.9999957
39	.9963599	.9981994	.9991407	.9996155	.9998341	.9999317	.9999738	.9999900
40	.9937524	.9967908	.9984243	.9992600	.9996688	.9998583	.9999420	.9999775
41	.9896300	.9944702	.9971809	.9986367	.9993610	.9997168	.9998797	.9999514
42	.9833416	.9907814	.9951320	.9975371	.9988082	.9994503	.9997500	.9998985
43	.9740816	.9841210	.9918307	.9957128	.9978498	.9989703	.9995894	.9997949
44	.9609125	.9737326	.9867493	.9927844	.9962450	.9981336	.9991145	.9995993
45	.9428177	.9647219	.9791698	.9883357	.9936488	.9967249	.9983471	.9992423
46	.9187866	.9481008	.9682422	.9814056	.9895803	.9944300	.9971548	.9986125
47	.8879287	.9258590	.9530096	.9714891	.9834520	.9900186	.9951339	.9975388
48	.8496040	.8970743	.9324719	.9575639	.9744774	.9833204	.9919319	.9957659
49	.8035521	.8610314	.9056813	.9386446	.9617805	.9732816	.9870220	.9929370
50	.7499974	.8171539	.8718598	.9137683	.9443958	.9656763	.9797355	.9885678
51	.6897075	.7661156	.8305263	.8821042	.9213532	.9497439	.9692670	.9820325
52	.6239878	.7079139	.7816144	.8430784	.8917798	.9284543	.9547066	.9723707
53	.5546050	.6438843	.7255570	.7964943	.8550199	.9009020	.9350093	.9593016
54	.4836469	.5756472	.6633205	.7426078	.8107567	.8663610	.9094868	.9421758
55	.4133346	.5051878	.5963789	.6822762	.7591162	.8244046	.8771126	.9175494
56	.3458175	.4346842	.5265850	.6157522	.7007327	.7750175	.8374414	.8848859
57	.2829800	.3663079	.4560756	.5447017	.6367476	.7186731	.7903254	.8449723
58	.2263899	.3030267	.3870203	.4714686	.5684023	.6563611	.7360821	.7980364
59	.1767367	.2434398	.3214532	.4079152	.4980837	.5895518	.6755391	.7439459
60	.1346586	.1916670	.2610918	.3412247	.4289530	.5201023	.6100808	.6842677
61	.1000818	.1473031	.2072077	.2792184	.3613054	.4500943	.5413666	.6201731
62	.0725067	.1104376	.1605604	.2233111	.2977912	.3816594	.4713008	.5536197
63	.0511844	.0807279	.1213981	.1744244	.2399580	.3167811	.4022505	.4852331
64	.0351897	.0575665	.0895095	.1329649	.1888845	.2571280	.3361375	.4203480
65	.0238538	.0399038	.0643336	.0988626	.1451383	.2039305	.2747994	.3598895
66	.0158434	.0269578	.0450349	.0716558	.1087932	.1579169	.2195503	.3039490
67	.0097243	.0177885	.0307027	.0506029	.0795106	.1193140	.1712988	.2537103
68	.0059944	.0113430	.0203749	.0348019	.0566233	.0879035	.1304248	.1852786
69	.0035929	.0070598	.0131566	.0233299	.0392743	.0631121	.0968433	.1482311
70	.0020938	.0042719	.0080656	.0151795	.0265195	.0441367	.0700844	.1063436
71	.0011854	.0025130	.0050470	.0096192	.0174856	.0300507	.0494064	.0775564
72	.0006522	.0014366	.0029964	.0059873	.0111379	.0199105	.0339100	.0551004
73	.0003485	.0007979	.0017288	.0035804	.0069303	.0128323	.0226498	.0381145
74	.0001809	.0004305	.0009690	.0020665	.0041818	.0080416	.0147150	.0256570
75	.0000911	.0002255	.0005275	.0011685	.0024548	.0048981	.0092955	.0167994
76	.0000446	.0001147	.0002780	.0006416	.0013927	.0028988	.0057070	.0106946
77	.0000211	.0000566	.0001430	.0003490	.0007750	.0016662	.0034040	.0066164

$$P(r;n,p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 110

x	.40	.41	.42	.43	.44	.45	.46	.47	.48
78	.00000000	.00000871	.00000713	.00001762	.00004165	.00009299	.00019710	.00039764
79	.00000041	.00000184	.00000344	.00000888	.00002178	.00005037	.00011088	.00023005
80	.00000019	.00000057	.00000161	.00000433	.00001099	.00002647	.00006051	.00013144
81	.00000008	.00000025	.00000071	.00000204	.00000519	.00001349	.00003203	.00007224
82	.00000004	.00000010	.00000032	.00000093	.00000256	.00000667	.00001644	.00003850
83	.00000001	.00000004	.00000014	.00000041	.00000118	.00000319	.00000810	.00001990
84		.00000002	.00000006	.00000018	.00000053	.00000148	.00000394	.00000996
85		.00000001	.00000002	.00000007	.00000023	.00000067	.00000184	.00000483
86			.00000001	.00000003	.00000010	.00000029	.00000083	.00000227
87				.00000001	.00000004	.00000018	.00000036	.00000103
88					.00000002	.00000005	.00000015	.00000045
89					.00000001	.00000008	.00000006	.00000019
90						.00000001	.00000002	.00000008
91							.00000001	.00000003
92								.00000001

x	.49	50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	1.00000000	1.00000000
22	1.00000000	1.00000000
23	1.00000000	1.00000000
24	1.00000000	1.00000000
25	1.00000000	1.00000000
26	1.00000000	1.00000000
27	1.00000000	1.00000000
28	1.00000000	1.00000000
29	1.00000000	1.00000000
30	1.00000000	1.00000000
31	1.00000000	1.00000000
32	1.00000000	1.00000000
33	1.00000000	1.00000000
34	1.00000000	1.00000000
35	.99999999	1.00000000
36	.99999998	.99999999
37	.99999994	.99999998
38	.99999985	.99999995
39	.99999964	.99999988
40	.99999917	.99999971
41	.99999813	.99999931
42	.99999594	.99999845
43	.99999148	.99999663
44	.99998278	.99999320
45	.99996606	.99998658
46	.99993549	.99997443
47	.99988181	.99995377
48	.99978800	.99991881
49	.99963314	.99986130
50	.99938416	.99976357
51	.99899663	.99960530
52	.99841357	.99933993
53	.99756005	.99890276
54	.99635461	.99821734
55	.99470313	.99716569
56	.99251058	.99563733
57	.98968930	.99351722
58	.98617021	.99069453
59	.98191471	.98709377
60	.97693520	.98266561
61	.97125250	.97740696
62	.96499811	.97133903
63	.95831055	.96454152
64	.95137530	.95717067
65	.94439968	.94949225
66	.93759451	.94180777
67	.93115587	.93463913
68	.92545556	.92858448
69	.92088511	.92497098
70	.91844369	.92430104
71	.91864136	.92734439
72	.92155414	.93470623
73	.92813353	.94605537
74	.93866810	.96178278
75	.95389497	.98176967
76	.97390990	.00305432
77	.99838498	.02816376
78	.02743648	.05739724

$$B(x;n,p) = \sum_{i=x}^{n} \binom{n}{i} p^i (1-p)^{n-i} \qquad n = 130$$

x	.49	.50
79	.0046219	.0047708
80	.0081716	.0083470
81	.0015495	.0031643
82	.0009574	.0010170
83	.0004600	.0010113
84	.0002392	.0004463
85	.0001205	.0002859
86	.0000588	.0001448
87	.0000278	.0000710
88	.0000127	.0000334
89	.0000056	.0000155
90	.0000024	.0000069
91	.0000010	.0000029
92	.0000004	.0000012
93	.0000002	.0000005
94	.0000001	.0000002
95		.0000001

$$P(x,n) = \sum_{r=0}^{n} \binom{n}{r} p^r q^{n-r}$$

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.7319333	.9891049	.9815038	.9952408	.9987988	.9996986	.9999857	.9999944
2	.2775655	.7396498	.9065684	.9698837	.9904644	.9971744	.9991986	.9997765
3	.1443898	.4481442	.7552084	.8999089	.9613948	.9867036	.9956068	.9986150
4	.0438410	.2675060	.5555540	.7228866	.8975405	.9579646	.9877978	.9942723
5	.0105467	.1234157	.3578651	.6047868	.7890117	.8998636	.9560383	.9881081
6	.0021584	.0487840	.2014859	.4369189	.6439130	.8040930	.9088848	.9584978
7	.0003701	.0167133	.1003962	.2712713	.4835485	.6765240	.8180930	.9067591
8	.0000581	.0050476	.0444519	.1554700	.3388173	.5511166	.7045848	.8110778
9	.0000079	.0013574	.0176668	.0806004	.2090577	.4387600	.5789381	.7090726
10	.0000010	.0003282	.0063453	.0380918	.1184192	.3417661	.4557479	.6078490
11	.0000001	.0000719	.0020735	.0164486	.0646280	.2640416	.3708956	.4798465
12		.0000144	.0006202	.0065801	.0317431	.0984968	.2864744	.3568385
13		.0000026	.0001707	.0023057	.0144384	.0516295	.1889804	.2492674
14		.0000004	.0000434	.0008008	.0061013	.0260391	.0750425	.1641856
15		.0000001	.0000103	.0002550	.0024089	.0108716	.0411507	.1017824
16			.0000023	.0000780	.0008846	.0054174	.0211368	.0593967
17			.0000005	.0000207	.0003053	.0022455	.0101116	.0371110
18			.0000001	.0000053	.0000990	.0008750	.0046519	.0170160
19				.0000013	.0000308	.0003008	.0020000	.0073788
20				.0000003	.0000087	.0001190	.0008141	.0030019
21				.0000001	.0000024	.0000360	.0003139	.0017850
22					.0000006	.0000116	.0001140	.0007844
23					.0000002	.0000034	.0000399	.0003044
24						.0000010	.0000138	.0001181
25						.0000003	.0000042	.0000499
26						.0000001	.0000013	.0000170
27							.0000004	.0000046
28							.0000001	.0000015
29								.0000004
30								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999957	.9999990	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999309	.9999843	.9999960	.9999990	.9999999	1.0000000	1.0000000	1.0000000
3	.9995809	.9999777	.9999955	.9999905	.9999975	.9999998	.9999999	1.0000000
4	.9980546	.9993607	.9999034	.9999410	.9999839	.9999958	.9999987	.9999997
5	.9938236	.9975591	.9991623	.9997848	.9999130	.9999736	.9999928	.9999978
6	.9810479	.9929517	.9971490	.9990760	.9996484	.9998846	.9999633	.9999888
7	.9558830	.9805347	.9919963	.9968316	.9988178	.9996708	.9999543	.9999729
8	.9113688	.9568897	.9803976	.9911104	.9966015	.9988909	.9998188	.9999707
9	.8431300	.9161677	.9583119	.9805742	.9911678	.9964504	.9985956	.9994698
10	.7500852	.8543307	.9210060	.9600064	.9809844	.9914689	.9963693	.9986305
11	.6396053	.7705078	.8647578	.9257901	.9618733	.9815664	.9915771	.9963477
12	.5188317	.6680542	.7882760	.8744650	.9304609	.9638393	.9808717	.9911744
13	.3987884	.5544231	.6937509	.8044764	.8815287	.9349818	.9605521	.9830498
14	.2903820	.4384416	.5868119	.7171129	.8193199	.8915781	.9303788	.9697036
15	.1993149	.3300124	.4754079	.6164013	.7384608	.8329738	.8898766	.9434883
16	.1303031	.2360405	.3680094	.5099005	.6448169	.7586020	.8455726	.9029586
17	.0803175	.1603409	.2717732	.4043130	.5421600	.6696269	.7760955	.8429978
18	.0468752	.1034425	.1913118	.3069188	.4398185	.5739504	.6931557	.7687610
19	.0259270	.0634028	.1286379	.2227945	.3491528	.4718545	.6004581	.6714992
20	.0136066	.0369439	.0820309	.1545741	.2644585	.3746836	.5031591	.5686998
21	.0067825	.0204806	.0499872	.1024785	.1918306	.2860425	.4070344	.4713210
22	.0031158	.0108116	.0290533	.0649891	.1344677	.2097958	.3173433	.3838094
23	.0014511	.0054400	.0161166	.0393273	.0916104	.1477345	.2398199	.3088038
24	.0006242	.0026118	.0085391	.0227833	.0612611	.0998550	.1780347	.2466651
25	.0008563	.0011972	.0043847	.0126295	.0390539	.0647806	.1294815	.1971467
26	.0001005	.0005246	.0020953	.0067041	.0240396	.0403496	.0797884	.1403097
27	.0000377	.0002200	.0009719	.0034099	.0095519	.0241215	.0512309	.0961725
28	.0000135	.0000883	.0004390	.0016629	.0052317	.0138556	.0314326	.0634782
29	.0000047	.0000340	.0001841	.0007781	.0026674	.0076471	.0187866	.0403476
30	.0000015	.0000125	.0000753	.0003496	.0013066	.0040574	.0107351	.0246991
31	.0000005	.0000044	.0000296	.0001509	.0006152	.0020706	.0059048	.0144653
32	.0000001	.0000015	.0000119	.0000636	.0003786	.0010168	.0031867	.0084761
33		.0000005	.0000041	.0000250	.0001214	.0004807	.0015849	.0048556
34		.0000002	.0000014	.0000096	.0000509	.0002189	.0007840	.0026934
35			.0000005	.0000036	.0000206	.0000961	.0003716	.0013190
36			.0000002	.0000013	.0000080	.0000407	.0001698	.0006990
37				.0000004	.0000030	.0000168	.0000749	.0003641
38				.0000001	.0000011	.0000065	.0000319	.0001501
39					.0000004	.0000025	.0000131	.0000576
40					.0000001	.0000009	.0000052	.0000244
41						.0000003	.0000020	.0000104
42						.0000001	.0000007	.0000041
43							.0000003	.0000016
44							.0000001	.0000006
45								.0000002
46								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999967	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999831	.9999958	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
8	.9999288	.9999814	.9999942	.9999983	.9999995	.9999999	1.0000000	1.0000000
9	.9998085	.9999337	.9999779	.9999939	.9999978	.9999993	.9999998	.9999999
10	.9994384	.9997903	.9999257	.9999747	.9999917	.9999974	.9999993	.9999998
11	.9984926	.9994064	.9997764	.9999192	.9999720	.9999907	.9999970	.9999991
12	.9963706	.9984794	.9993910	.9997666	.9999143	.9999698	.9999896	.9999967
13	.9920397	.9964448	.9984869	.9993050	.9997610	.9999110	.9999682	.9999891

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 131

r	.17	.18	.19	.20	.21	22	.23	.24
14	.9839101	.9923558	.9965458	.9985121	.9993878	.9997590	.9999091	.9999671
15	.9909757	.9847908	.9927082	.9966725	.9985516	.9993978	.9997604	.9999086
16	.9474545	.9718380	.9856866	.9930853	.9968184	.9986031	.9994139	.9997646
17	.9141603	.9513242	.9737456	.9865835	.9934778	.9969782	.9986535	.9994349
18	.8680298	.9206140	.9547979	.9755879	.9874706	.9938777	.9971472	.9987305
19	.8081898	.8780584	.9266492	.9581780	.9773573	.9883393	.9942780	.9973218
20	.7352966	.8225013	.8873800	.9322923	.9613606	.9790408	.9891832	.9946761
21	.6516840	.7542066	.8357968	.8960524	.9375678	.9643747	.9806595	.9899973
22	.5611740	.6747657	.7718409	.8481639	.9041861	.9424978	.9672019	.9821876
23	.4684780	.5879940	.6968309	.7883032	.8596783	.9116458	.9471029	.9698565
24	.3785011	.4975176	.6134462	.7173814	.8036843	.8704066	.9186511	.9514022
25	.2955707	.4081446	.5254290	.6375943	.7367042	.8180645	.8804074	.9251776
26	.2228716	.3241776	.4370641	.5522221	.6604995	.7546782	.8315151	.8897330
27	.1621656	.2490326	.3525594	.4652082	.5779134	.6822202	.7719749	.8441000
28	.1138120	.1848844	.2754735	.3806113	.4925397	.6025242	.7028121	.7880593
29	.0770267	.1325824	.2083122	.3020570	.4082466	.5190330	.6260785	.7223275
30	.0508668	.0918054	.1523587	.2323062	.3286631	.4353942	.5446715	.6486028
31	.0316316	.0613718	.1077341	.1730181	.2567357	.3551868	.4619959	.5694458
32	.0191960	.0396061	.0736304	.1247269	.1944417	.2814809	.3815369	.4880041
33	.0112365	.0246754	.0486314	.0869995	.1425943	.2165157	.3064351	.4076340
34	.0063458	.0148435	.0310396	.0587039	.1014273	.1615452	.2391324	.3314439
35	.0034584	.0086219	.0191456	.0383144	.0698088	.1168558	.1811890	.2621900
36	.0018195	.0048372	.0114135	.0241874	.0465152	.0819227	.1332217	.2015359
37	.0009243	.0026218	.0065770	.0147694	.0300033	.0556482	.0950140	.1504589
38	.0004535	.0013731	.0036641	.0087241	.0187336	.0366206	.0657111	.1090451
39	.0002150	.0006951	.0019738	.0049855	.0113230	.0233450	.0440595	.0766941
40	.0000985	.0003402	.0010284	.0027567	.0066256	.0144160	.0286373	.0523326
41	.0000436	.0001610	.0005184	.0014752	.0037537	.0086236	.0180420	.0346385
42	.0000187	.0000737	.0002528	.0007641	.0020502	.0049975	.0110176	.0222367
43	.0000077	.0000327	.0001193	.0003833	.0010940	.0028058	.0065215	.0138446
44	.0000031	.0000140	.0000545	.0001860	.0005630	.0015264	.0037419	.0083593
45	.0000012	.0000058	.0000241	.0000875	.0002807	.0008047	.0020813	.0048950
46	.0000005	.0000023	.0000103	.0000399	.0001356	.0004111	.0011223	.0027799
47	.0000002	.0000009	.0000043	.0000176	.0000634	.0002036	.0005860	.0015312
48	.0000001	.0000003	.0000017	.0000075	.0000288	.0000977	.0002975	.0008181
49		.0000001	.0000007	.0000031	.0000127	.0000455	.0001462	.0004239
50			.0000003	.0000013	.0000054	.0000205	.0000697	.0002131
51			.0000001	.0000005	.0000022	.0000090	.0000323	.0001039
52				.0000002	.0000009	.0000038	.0000145	.0000492
53				.0000001	.0000003	.0000016	.0000063	.0000226
54					.0000001	.0000006	.0000027	.0000101
55						.0000002	.0000011	.0000044
56						.0000001	.0000004	.0000018
57							.0000002	.0000007
58							.0000001	.0000003
59								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0 00000	1.0000000	1.0000000
11	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999964	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999886	.9999962	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000
15	.9999664	.9999883	.9999960	.9999987	.9999996	.9999999	1.0000000	1.0000000
16	.9999094	.9999666	.9999882	.9999960	.9999987	.9999996	.9999999	1.0000000
17	.9997711	.9999113	.9999670	.9999882	.9999960	.9999987	.9999996	.9999999
18	.9994530	.9997400	.9999141	.9999679	.9999885	.9999960	.9999987	.9999996
19	.9988023	.9994877	.9997902	.9999177	.9999690	.9999888	.9999961	.9999987
20	.9974987	.9988769	.9995176	.9998016	.9999218	.9999705	.9999893	.9999963
21	.9950654	.9976753	.9989531	.9995489	.9998139	.9999264	.9999721	.9999899
22	.9907781	.9954436	.9978494	.9990294	.9995808	.9998266	.9999313	.9999739
23	.9836326	.9915231	.9958082	.9980192	.9991040	.9996128	.9998396	.9999364
24	.9723409	.9843950	.9922305	.9961575	.9981835	.9991706	.9996445	.9998527
25	.9554132	.9746736	.9862750	.9928995	.9964900	.9983411	.9992499	.9996754
26	.9312574	.9591525	.9768494	.9874767	.9935295	.9968049	.9984912	.9993183
27	.8984302	.9369295	.9626353	.9788790	.9885996	.9941007	.9971015	.9986333
28	.8558765	.9066610	.9421904	.9658763	.9807690	.9896471	.9946735	.9973797
29	.8031909	.8668966	.9141037	.9470947	.9688890	.9825259	.9906217	.9951885
30	.7408161	.8174242	.8772075	.9211530	.9516547	.9716862	.9841563	.9915862
31	.6701246	.7583248	.8308093	.8864524	.9277208	.9558912	.9742801	.9856665
32	.5933521	.6906731	.7748978	.8433926	.8958707	.9338365	.9598237	.9766823
33	.5133807	.6163914	.7102739	.7905769	.8552168	.9042989	.9395871	.9634702
34	.4334094	.5380954	.6385681	.7289585	.8054016	.8663220	.9121708	.9448179
35	.3565743	.4588036	.5621241	.6598896	.7467541	.8194093	.8767453	.9195178
36	.2855931	.3815937	.4837654	.5854486	.6803656	.7636886	.8326357	.8865215
37	.2224988	.3092528	.4064801	.5082506	.6080552	.7000077	.7797894	.8451143
38	.1684991	.2439927	.3330862	.4311685	.5322215	.6299342	.7188288	.7950833
39	.1239731	.1872731	.2659363	.3570164	.4556007	.5556457	.6510793	.7360430
40	.0885806	.1397513	.2067114	.2882515	.3809723	.4797244	.5784960	.6714872
41	.0614464	.1013485	.1563297	.2267450	.3108636	.4048880	.5034933	.6007493
42	.0413715	.0714009	.1149706	.1736561	.2473058	.3337019	.4287026	.5266658
43	.0270323	.0488535	.0821908	.1294154	.1916767	.2683270	.3566992	.4533602
44	.0171393	.0324567	.0570969	.0938055	.1446480	.2103366	.2897435	.3797910
45	.0105440	.0209346	.0385343	.0661090	.1062302	.1606306	.2295805	.3114921
46	.0062937	.0131079	.0252608	.0452854	.0758927	.1194456	.1773229	.2493527

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 131

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
47	.0036450	.0079667	.0160824	.0301455	.0527263	.0864464	.1334292	.1946828
48	.0020482	.0046999	.0099429	.0194974	.0356135	.0608695	.0977647	.1481552
49	.0011168	.0026913	.0059691	.0122508	.0233815	.0416869	.0697241	.1098383
50	.0005908	.0014958	.0034795	.0074773	.0149186	.0277613	.0485047	.0792953
51	.0003033	.0008070	.0019693	.0044328	.0092496	.0179736	.0326616	.0557838
52	.0001511	.0004226	.0010822	.0025524	.0055721	.0113114	.0214423	.0381053
53	.0000731	.0002148	.0005774	.0014274	.0032612	.0069187	.0136877	.0253503
54	.0000343	.0001060	.0002992	.0007752	.0018542	.0041126	.0084945	.0164034
55	.0000156	.0000508	.0001505	.0004089	.0010242	.0023755	.0051244	.0103818
56	.0000069	.0000236	.0000735	.0002095	.0005495	.0013332	.0030047	.0063151
57	.0000030	.0000107	.0000349	.0001042	.0002864	.0007270	.0017122	.0037562
58	.0000012	.0000047	.0000161	.0000503	.0001450	.0003852	.0009482	.0021718
59	.0000005	.0000020	.0000072	.0000236	.0000713	.0001983	.0005102	.0012205
60	.0000002	.0000008	.0000031	.0000108	.0000340	.0000991	.0002668	.0006666
61	.0000001	.0000003	.0000013	.0000048	.0000158	.0000481	.0001355	.0003538
62		.0000001	.0000005	.0000020	.0000071	.0000227	.0000669	.0001825
63			.0000002	.0000009	.0000031	.0000104	.0000321	.0000914
64			.0000001	.0000003	.0000013	.0000046	.0000149	.0000445
65				.0000001	.0000005	.0000020	.0000068	.0000210
66				.0000001	.0000002	.0000008	.0000030	.0000097
67					.0000001	.0000003	.0000013	.0000043
68						.0000001	.0000005	.0000019
69						.0000001	.0000002	.0000008
70							.0000001	.0000003
71								.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999965	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999905	.9999967	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
23	.9999758	.9999912	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000
24	.9999415	.9999777	.9999919	.9999972	.9999991	.9999997	.9999999	1.0000000
25	.9998655	.9999466	.9999797	.9999926	.9999974	.9999991	.9999997	.9999999
26	.9997052	.9998780	.9999516	.9999816	.9999933	.9999977	.9999998	.9999998
27	.9993834	.9997338	.9998899	.9999564	.9999835	.9999940	.9999979	.9999993
28	.9987671	.9994449	.9997608	.9999013	.9999610	.9999853	.9999947	.9999988
29	.9976395	.9988922	.9995026	.9997862	.9999121	.9999654	.9999870	.9999953
30	.9956669	.9978809	.9990087	.9995563	.9998100	.9999221	.9999695	.9999885
31	.9923636	.9961097	.9981045	.9991165	.9996061	.9998320	.9999314	.9999732
32	.9870626	.9931368	.9965182	.9983106	.9992159	.9996519	.9998582	.9999400
33	.9789034	.9883509	.9938489	.9968938	.9984998	.9993071	.9996939	.9998707
34	.9668476	.9809545	.9895371	.9945031	.9972382	.9986730	.9993902	.9997321
35	.9497322	.9699719	.9828449	.9906270	.9951024	.9975528	.9988307	.9994658
36	.9263691	.9542921	.9728581	.9845043	.9916262	.9956500	.9978398	.9989738
37	.8956033	.9327522	.9585182	.9755204	.9861818	.9925401	.9961488	.9980991
38	.8566773	.9042616	.9386926	.9634297	.9779781	.9876461	.9933739	.9966019
39	.8095968	.8679554	.9122883	.9442147	.9660451	.9802261	.9889853	.9941337
40	.7540683	.8233554	.8783777	.9197821	.9493414	.9693816	.9822945	.9902075
41	.6911571	.7705113	.8367445	.8881725	.9267782	.9540943	.9724557	.9841887
42	.6223843	.7100900	.7861974	.8487086	.8973665	.9332984	.9584941	.9753889
43	.5498038	.6433913	.7280893	.8011405	.8603516	.9059857	.9393665	.9625604
44	.4758092	.5728741	.6637513	.7457896	.8153576	.8713377	.9140550	.9450053
45	.4029196	.4990019	.5942488	.6834562	.7625072	.8288660	.8816894	.9215984
46	.3335112	.4260258	.5218949	.6157011	.7024982	.7785393	.8416835	.8914896
47	.2695979	.3557418	.4490570	.5444479	.6366085	.7208716	.7938646	.8538279
48	.2136666	.2908613	.3781265	.4719689	.5666242	.6569508	.7385734	.8084928
49	.1635951	.2312894	.3118888	.4006104	.4946960	.5883903	.6767108	.7556018
50	.1226549	.1797181	.2503257	.3336254	.4231406	.5178120	.6097154	.6986738
51	.0895850	.1361989	.1964912	.2699098	.3542808	.4486663	.5394690	.6388714
52	.0637156	.1005922	.1504517	.2133796	.2899338	.3826212	.4681388	.5761879
53	.0441131	.0723788	.1123188	.1683925	.2318472	.3203810	.3979780	.5108118
54	.0297217	.0507034	.0817015	.1247388	.1809980	.2623564	.3311157	.4480411
55	.0194830	.0345794	.0578929	.0917077	.1378614	.1978489	.2693686	.3881807
56	.0124289	.0229505	.0399449	.0656957	.1023936	.1516601	.2140999	.3333444
57	.0077036	.0148803	.0268290	.0488183	.0741838	.1137898	.1661443	.2835401
58	.0046452	.0093095	.0175364	.0311418	.0388780	.0831674	.1258080	.2387738
59	.0027222	.0056874	.0111524	.0205935	.0359065	.0598609	.0928948	.1988274
60	.0015580	.0033787	.0068998	.0132586	.0240135	.0411817	.0668683	.1638499
61	.0008597	.0019815	.0041809	.0083975	.0156303	.0278180	.0468903	.0750359
62	.0004699	.0010958	.0024885	.0050533	.0098997	.0183059	.0320881	.0531431
63	.0002488	.0005960	.0013813	.0029930	.0060999	.0117837	.0212999	.0366646
64	.0001231	.0003178	.0007638	.0017237	.0036557	.0073053	.0137677	.0246387
65	.0000608	.0001635	.0004105	.0009660	.0021308	.0044879	.0086846	.0161101
66	.0000298	.0000819	.0002144	.0005382	.0012078	.0026101	.0053816	.0103834
67	.0000136	.0000399	.0001008	.0002778	.0006649	.0014960	.0031718	.0063498

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 151

x	.33	.34	.35	.36	.37	.38	.39	.40
68	.0000062	.0000188	.0000537	.0001428	.0003559	.0008335	.0018379	.0038240
69	.0000027	.0000086	.0000257	.0000713	.0001852	.0004514	.0010354	.0022395
70	.0000012	.0000039	.0000120	.0000346	.0000936	.0002375	.0005669	.0012751
71	.0000005	.0000017	.0000054	.0000163	.0000459	.0001214	.0003016	.0007056
72	.0000002	.0000007	.0000024	.0000075	.0000219	.0000603	.0001559	.0003794
73	.0000001	.0000003	.0000010	.0000033	.0000101	.0000291	.0000783	.0001982
74		.0000001	.0000004	.0000014	.0000046	.0000136	.0000382	.0001006
75			.0000002	.0000006	.0000020	.0000062	.0000181	.0000490
76			.0000001	.0000002	.0000008	.0000027	.0000083	.0000237
77				.0000001	.0000003	.0000012	.0000037	.0000110
78					.0000001	.0000005	.0000016	.0000050
79					.0000001	.0000002	.0000007	.0000022
80						.0000001	.0000003	.0000009
81							.0000001	.0000004
82								.0000002
83								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999984	.9999995	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999959	.9999986	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999900	.9999964	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000
32	.9999767	.9999913	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000
33	.9999478	.9999798	.9999926	.9999974	.9999991	.9999997	.9999999	1.0000000
34	.9998875	.9999548	.9999827	.9999937	.9999978	.9999993	.9999998	.9999999
35	.9997667	.9999026	.9999612	.9999852	.9999946	.9999981	.9999994	.9999998
36	.9995341	.9997977	.9999162	.9999668	.9999875	.9999955	.9999984	.9999995
37	.9991031	.9995951	.9998255	.9999283	.9999719	.9999895	.9999968	.9999987
38	.9983341	.9992195	.9996506	.9998507	.9999391	.9999763	.9999913	.9999969
39	.9970131	.9985458	.9993238	.9996997	.9998727	.9999485	.9999801	.9999927
40	.9948215	.9973824	.9987358	.9994168	.9997432	.9998921	.9999568	.9999835
41	.9913205	.9954440	.9977156	.9989057	.9994995	.9997816	.9999091	.9999639
42	.9861599	.9923307	.9960074	.9980143	.9990570	.9995726	.9998152	.9999239
43	.9778788	.9874984	.9932459	.9965134	.9982811	.9991911	.9996369	.9998446
44	.9663119	.9802557	.9889343	.9940726	.9969671	.9985185	.9993095	.9996932
45	.9508366	.9697664	.9824290	.99 71	.9948171	.9973726	.9987290	.9993176
46	.9286393	.9550813	.9729411	.09	.9914161	.9954854	.9977336	.9989148
47	.9005005	.9352003	.9595596	.524	.9862138	.9924799	.9960834	.9980538
48	.8653171	.9091639	.9413031	.3910	.9785160	.9878496	.9934368	.9966166
49	.8234334	.8761694	.9172013	.9691	.9674941	.9809471	.9893 76	.9942949
50	.7719548	.8356985	.8864030	.7138	.9522189	.9709872	.98 .1	.9906647
51	.7144264	.7876357	.8482299	.80364	.9317224	.9570728	.974 76	.9851692
52	.6509329	.7323586	.8026446	02498	.9050879	.9382475	.9615504	.9771124
53	.5830519	.6707767	.7496617	39913	.8715619	.9135762	.9443094	.9656708
54	.5127397	.6043069	.6900722	.73286	.8306751	.8822500	.9215200	.9499282
55	.4421626	.5347807	.6250604	.78306	.7823544	.8437045	.8933285	.9289301
56	.3734995	.4642957	.5557938	.8328	.7270053	.7977356	.8560869	.9018124
57	.3087434	.3950859	.4854347	.5 399	.6655461	.7445915	.8124701	.8678308
58	.2495389	.3290248	.4178441	.884152	.5993820	.6850246	.7615765	.8255706
59	.1970358	.2680463	.3551187	.5303741	.5302046	.6202046	.7039943	.7774953
60	.1518984	.2134116	.2983	705685	.4603948	.5520495	.6408141	.7234338
61	.1148883	.1651	.2479	.3065011	.3917468	.4822981	.5735608	.6602385
62	.0858136	.1238	.2043	.2479103	.3263726	.4131396	.5041947	.5948685
63	.0639873	.0893	.1677	.1980345	.2659830	.3466451	.4347048	.5260115
64	.0417475	.0627259	.1379 .4216	.1512071	.2118676	.2845084	.3672218	.4563977
65	.0283245	.0473967	.0781546	.1138676	.1648241	.2284014	.3036377	.3881827
66	.0187096	.0339385	.0533299	.0836268	.1251496	.1794032	.2455174	.3231605
67	.0120881	.0236052	.0358665	.0598661	.0926887	.1370714	.1939767	.2631953
68	.0075336	.0160248	.0238159	.0417543	.0669286	.1023518	.1496351	.2094951
69	.0045778	.0088584	.0167504	.0288607	.0470013	.0745187	.1126265	.1628416
70	.0027093	.0054486	.0103676	.0187953	.0328591	.0530653	.0826613	.1235216
71	.0015577	.0032817	.0064308	.0120656	.0215179	.0365302	.0591258	.0913748
72	.0008708	.0018887	.0038788	.0073517	.0139674	.0245750	.0411933	.0658793
73	.0004730	.0010668	.0022739	.0043962	.0088193	.0160883	.0279418	.0462677
74	.0002496	.0005848	.0012957	.0025180	.0054150	.0102483	.0184441	.0316366
75	.0001279	.0003116	.0007173	.0013636	.0032319	.0063441	.0118427	.0210511
76	.0000637	.0001612	.0003857	.0007234	.0018745	.0038185	.0073936	.0136849

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 131

c	.41	.42	.43	.44	.45	.46	.47	.48
77	.00000307	.00000810	.00002014	.0004738	.00010561	.00023332	.00044864	.00085739
78	.00000144	.00000395	.00001021	.00002496	.00005778	.00012686	.00026450	.00052436
79	.00000066	.00000187	.00000502	.00001276	.00003069	.00006997	.00015144	.00031155
80	.00000029	.00000086	.00000240	.00000633	.00001582	.00003746	.00008418	.00017974
81	.00000012	.00000038	.00000111	.00000305	.00000791	.00001946	.00004541	.00010066
82	.00000005	.00000016	.00000050	.00000142	.00000384	.00000981	.00002377	.00005470
83	.00000002	.00000007	.00000022	.00000064	.00000180	.00000479	.00001206	.00002883
84	.00000001	.00000003	.00000009	.00000028	.00000082	.00000227	.00000593	.00001473
85		.00000001	.00000004	.00000012	.00000036	.00000104	.00000283	.00000729
86			.00000001	.00000005	.00000016	.00000046	.00000131	.00000350
87			.00000001	.00000002	.00000006	.00000020	.00000058	.00000163
88				.00000001	.00000003	.00000008	.00000025	.00000073
89					.00000001	.00000003	.00000011	.00000032
90						.00000001	.00000004	.00000013
91							.00000002	.00000005
92							.00000001	.00000002
93								.00000001

c	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	1.00000000	1.00000000
22	1.00000000	1.00000000
23	1.00000000	1.00000000
24	1.00000000	1.00000000
25	1.00000000	1.00000000
26	1.00000000	1.00000000
27	1.00000000	1.00000000
28	1.00000000	1.00000000
29	1.00000000	1.00000000
30	1.00000000	1.00000000
31	1.00000000	1.00000000
32	1.00000000	1.00000000
33	1.00000000	1.00000000
34	1.00000000	1.00000000
35	.99999999	1.00000000
36	.99999998	1.00000000
37	.99999996	.99999999
38	.99999990	.99999997
39	.99999974	.99999991
40	.99999940	.99999979
41	.99999864	.99999951
42	.99999701	.99999888
43	.99999367	.99999754
44	.99998701	.99999477
45	.99997422	.99998921
46	.99995047	.99997847
47	.99990781	.99995840
48	.99983367	.99992209
49	.99970902	.99985856
50	.99950616	.99975091
51	.99918652	.99957443
52	.99869876	.99929411
53	.99797779	.99886234
54	.99694528	.99822000
55	.99551235	.99729146
56	.99358493	.99599150
57	.99107173	.99422728
58	.98789456	.99190592
59	.98399990	.98894420
60	.97937006	.98527969
61	.97403212	.98088228
62	.96805276	.97576399
63	.96158745	.96998527
64	.95477357	.96365619
65	.94781773	.95693155
66	.94092904	.95000000
67	.93431049	.94306845
68	.92814132	.93634381
69	.92256273	.93001475
70	.91766826	.92423601
71	.91350450	.91911772
72	.91006688	.91472031
73	.90731453	.91105580
74	.90517726	.90809409
75	.90356780	.90577273
76	.90239258	.90400850
77	.90156059	.90270854

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 151

c	.49	.50
78	.0098961	.0178000
79	.0060982	.0113716
80	.0036502	.0070589
81	.0021814	.0042557
82	.0011965	.0024907
83	.0006547	.0014144
84	.0003474	.0007791
85	.0001787	.0004160
86	.0000890	.0002153
87	.0000430	.0001079
88	.0000201	.0000523
89	.0000091	.0000246
90	.0000040	.0000112
91	.0000017	.0000049
92	.0000007	.0000021
93	.0000003	.0000009
94	.0000001	.0000003
95		.0000001

$$P(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 132

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7346338	.9308329	.9820501	.9954312	.9988531	.9997163	.9999309	.9999834
2	.3868121	.7433599	.9088107	.9703028	.9908854	.9973259	.9992439	.9997929
3	.1467180	.4931727	.7604280	.9017231	.9634176	.9873319	.9958570	.9987080
4	.0442585	.2719188	.5615646	.7778906	.9007717	.9596869	.9848104	.9946197
5	.0108736	.1262975	.3632138	.6115095	.7944386	.9027857	.9579954	.9831548
6	.0022423	.0502179	.2061690	.4340278	.6511687	.8098033	.9063262	.9576331
7	.0003969	.0173535	.1033613	.2774989	.4915610	.6841781	.8240074	.9106588
8	.0000614	.0052809	.0461202	.1601021	.3403537	.5398429	.7134787	.8371323
9	.0000084	.0014312	.0184704	.0836719	.2160057	.3950915	.5813124	.7378330
10	.0000010	.0003488	.0066849	.0397954	.1258351	.2692959	.4452888	.6175468
11	.0000001	.0000770	.0023016	.0173086	.0674616	.1690050	.3193561	.4895347
12		.0000155	.0006638	.0069170	.0333870	.0995431	.2142281	.3660764
13		.0000029	.0001842	.0025611	.0150036	.0542570	.1344400	.2578867
14		.0000005	.0000473	.0008719	.0065102	.0275745	.0790048	.1709373
15		.0000001	.0000113	.0002772	.0026878	.0130978	.0435371	.1067147
16			.0000025	.0000822	.0009605	.0058287	.0225366	.0627827
17			.0000005	.0000228	.0003342	.0024358	.0109778	.0346477
18			.0000001	.0000060	.0001093	.0009580	.0050412	.0182725
19				.0000015	.0000337	.0003554	.0021864	.0090640
20				.0000003	.0000098	.0001246	.0008972	.0042596
21				.0000001	.0000027	.0000414	.0003489	.0018998
22					.0000007	.0000130	.0001288	.0008045
23					.0000002	.0000039	.0000458	.0003342
24						.0000011	.0000151	.0001344
25						.0000003	.0000048	.0000456
26						.0000001	.0000015	.0000159
27							.0000004	.0000053
28							.0000001	.0000017
29								.0000005
30								.0000002

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999961	.9999991	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999449	.9999857	.9999964	.9999991	.9999998	.9999999	1.0000000	1.0000000
3	.9996132	.9998884	.9999688	.9999916	.9999978	.9999994	.9999999	1.0000000
4	.9981919	.9994196	.9998212	.9999469	.9999848	.9999958	.9999989	.9999997
5	.9936584	.9977400	.9992328	.9997508	.9999282	.9999766	.9999930	.9999981
6	.9821801	.9929625	.9973712	.9990659	.9996828	.9998968	.9999677	.9999903
7	.9581514	.9817264	.9935009	.9970891	.9989258	.9996216	.9998723	.9999586
8	.9151751	.9592542	.9866658	.9922369	.9968895	.9988152	.9996694	.9998502
9	.8492715	.9202399	.9607413	.9818985	.9921352	.9967641	.9987341	.9995276
10	.7591964	.8605144	.9251097	.9624749	.9823473	.9921637	.9967033	.9986008
11	.6496214	.7788895	.8709415	.9298961	.9643578	.9829523	.9922951	.9966969
12	.5294283	.6783013	.7966886	.8806241	.9345445	.9663211	.9836673	.9925060
13	.4095654	.5656053	.7041504	.8128750	.8896247	.9390213	.9683150	.9844566
14	.3001386	.4500196	.5985754	.7275965	.8276663	.8979935	.9433067	.9703039
15	.2081479	.3408553	.4870623	.6287509	.7489720	.8412344	.9057943	.9473899
16	.1365772	.2454377	.3798233	.5237166	.6564685	.7685410	.8537182	.9130554
17	.0844168	.1679108	.2823591	.4169835	.5553926	.6820064	.7865171	.8693282
18	.0498850	.1091323	.2001620	.3180009	.4523547	.5858831	.7055967	.8030756
19	.0278131	.0674068	.1352561	.2328887	.3539403	.4859100	.6143629	.7243358
20	.0147155	.0395898	.0871236	.1627606	.2657417	.3882617	.5177625	.6409890
21	.0073967	.0221269	.0535120	.1087300	.1912723	.2984481	.4214461	.5479565
22	.0035362	.0117785	.0313560	.0694351	.1319249	.2204709	.3307955	.4534473
23	.0016098	.0059772	.0175396	.0423995	.0871818	.1564231	.2500824	.3626803
24	.0006987	.0028943	.0093726	.0247676	.0552065	.1065502	.1819615	.2798792
25	.0002894	.0013306	.0047883	.0138479	.0335068	.0696910	.1273645	.2083017
26	.0001145	.0005919	.0023405	.0074151	.0194993	.0437639	.0857423	.1494036
27	.0000433	.0002504	.0010955	.0038052	.0108855	.0263942	.0555145	.1032344
28	.0000157	.0001015	.0004914	.0018725	.0058323	.0152931	.0345723	.0687093
29	.0000054	.0000394	.0002114	.0008843	.0030008	.0085163	.0207135	.0440485
30	.0000018	.0000147	.0000873	.0004010	.0014835	.0045600	.0119429	.0278030
31	.0000006	.0000053	.0000346	.0001747	.0007050	.0023488	.0066289	.0161866
32	.0000002	.0000018	.0000132	.0000732	.0003223	.0011643	.0035433	.0092823
33	.0000001	.0000006	.0000048	.0000295	.0001418	.0005558	.0018247	.0051316
34		.0000002	.0000017	.0000114	.0000601	.0002556	.0009057	.0027357
35		.0000001	.0000006	.0000043	.0000245	.0001133	.0004334	.0014069
36			.0000002	.0000015	.0000097	.0000484	.0002001	.0006982
37			.0000001	.0000005	.0000037	.0000200	.0000801	.0003345
38				.0000002	.0000013	.0000079	.0000303	.0001548
39				.0000001	.0000005	.0000031	.0000159	.0000698
40					.0000002	.0000011	.0000064	.0000299
41					.0000001	.0000004	.0000025	.0000135
42						.0000001	.0000009	.0000050
43							.0000003	.0000020
44							.0000001	.0000007
45								.0000003
46								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999972	.9999998	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999871	.9999961	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000
8	.9999500	.9999840	.9999950	.9999985	.9999996	.9999999	1.0000000	1.0000000
9	.9998313	.9999423	.9999810	.9999940	.9999982	.9999995	.9999998	1.0000000
10	.9994964	.9998161	.9999356	.9999784	.9999930	.9999978	.9999993	.9999998
11	.9986525	.9994755	.99 3047	.9999303	.9999761	.9999921	.9999975	.9999998
12	.9967357	.9986463	.9994642	.9997972	.9999264	.9999744	.9999914	.9999978
13	.9927769	.9968108	.9986587	.9994615	.9997932	.9999839	.9999731	.9999909

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 132

k	.17	.18	.19	.20	.21	.22	.23	.24
14	.9852922	.9930917	.9969147	.9986867	.9994662	.9997924	.9999227	.9999724
15	.9722616	.9861525	.9934373	.9970405	.9987274	.9994773	.9997946	.9999227
16	.9512661	.9741695	.9870307	.9930020	.9971884	.9987780	.9994936	.9997992
17	.9198203	.9549347	.9760144	.9878839	.9941793	.9973357	.9988361	.9995140
18	.8750720	.9261239	.9583980	.9777070	.9887321	.9945598	.9974960	.9988996
19	.8183626	.8857185	.9319974	.9616600	.9794811	.9895578	.9949386	.9976599
20	.7476085	.8325016	.8948412	.9376795	.9647262	.9810928	.9903558	.9953111
21	.6659023	.7664996	.8455976	.9053004	.9425659	.9676030	.9826199	.9911202
22	.5765616	.6892291	.7839925	.8577116	.9111488	.9473107	.9702972	.9840619
23	.4843363	.6036489	.7110828	.8002753	.8690123	.9184332	.9517257	.9720160
24	.3937972	.5138034	.6292893	.7316657	.8154430	.8794792	.9251950	.9538312
25	.3096689	.4242317	.5421523	.6535517	.7507700	.8295797	.8892035	.9314715
26	.2352305	.3392916	.4538534	.5692[illegible]5	.6765025	.7687792	.8427603	.8982397
27	.1724856	.2625547	.3666153	.48[illegible]9	.5952565	.6982050	.7856691	.8550519
28	.1230321	.1964311	.2901198	.39[illegible]	.5104682	.6200573	.7187195	.8015091
29	.0853002	.1419968	.2210728	.317[illegible]78	.4259402	.5374011	.6437272	.7381031
30	.0568160	.0991452	.1629899	.2462564	.3453756	.4577948	.5633951	.6662967
31	.0347796	.0668498	.1162128	.1848757	.2718404	.3728324	.4810113	.5884435
32	.0213101	.0435239	.0801101	.1343852	.2075234	.2976962	.4000425	.5075501
33	.0125097	.0273629	.0533812	.0945450	.1535612	.2308081	.3237070	.4269228
34	.0071772	.0166128	.0343021	.0643630	.1100934	.1736387	.2546116	.3497675
35	.0039493	.0097417	.0214055	.0423923	.0764407	.1266874	.1945159	.2788229
36	.0020981	.0055184	.0128026	.0270120	.0514069	.0896080	.1442542	.2160729
37	.0010765	.0030205	.0074959	.0166530	.0334700	.0614286	.1038018	.1627174
38	.0005336	.0015979	.0042175	.0099331	.0211002	.0408067	.0724508	.1189844
39	.0002556	.0008172	.0022950	.0057332	.0128793	.0262656	.0490394	.0844583
40	.0001183	.0004041	.0012081	.0032025	.0076121	.0163004	.0321844	.0581794
41	.0000530	.0001933	.0006153	.0017315	.0043568	.0098979	.0204789	.0388851
42	.0000229	.0000894	.0003033	.0009063	.0024150	.0057952	.0126332	.0252132
43	.0000096	.0000401	.0001447	.0004594	.0012967	.0032800	.0075556	.0158587
44	.0000039	.0000174	.0000660	.0002255	.0006745	.0018079	.0043812	.0096758
45	.0000015	.0000073	.0000299	.0001072	.0003399	.0009635	.0024632	.0057264
46	.0000006	.0000030	.0000130	.0000494	.0001660	.0004977	.0013429	.0032875
47	.0000002	.0000012	.0000054	.0000220	.0000786	.0002493	.0007099	.0018309
48	.0000001	.0000004	.0000022	.0000095	.0000361	.0001210	.0003640	.0009892
49		.0000002	.0000009	.0000040	.0000160	.0000570	.0001810	.0005185
50		.0000001	.0000003	.0000016	.0000069	.0000260	.0000873	.0002677
51			.0000001	.0000006	.0000029	.0000115	.0000409	.0001302
52				.0000002	.0000012	.0000050	.0000186	.0000623
53				.0000001	.0000005	.0000021	.0000072	.0000290
54					.0000002	.0000008	.0000035	.0000131
55					.0000001	.0000003	.0000015	.0000057
56						.0000001	.0000006	.0000024
57							.0000002	.0000010
58							.0000001	.0000004
59								.0000002
60								.0000001

k	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999970	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999905	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000
15	.9999721	.9999903	.9999968	.9999990	.9999997	.9999999	1.0000000	1.0000000
16	.9999237	.9999722	.9999903	.9999967	.9999989	.9999997	.9999999	1.0000000
17	.9998058	.9999257	.9999727	.9999904	.9999968	.9999989	.9999997	.9999999
18	.9995377	.9998141	.9999204	.9999736	.9999906	.9999968	.9999990	.9999997
19	.9989667	.9995637	.9998237	.9999317	.9999747	.9999910	.9999969	.9999990
20	.9978246	.9990357	.9995912	.9998341	.9999355	.9999760	.9999914	.9999971
21	.9956737	.9979877	.9991055	.9996197	.9998452	.9999396	.9999774	.9999919
22	.9918499	.9960238	.9981474	.9991748	.9996484	.9998566	.9999440	.9999790
23	.9854190	.9929424	.9963593	.9983021	.9992429	.9996770	.9998681	.9999484
24	.9751668	.9866923	.9931965	.9966788	.9984507	.9993089	.9997050	.9998795
25	.9596461	.9773572	.9878836	.9938117	.9969811	.9985923	.9993722	.9997321
26	.9372963	.9631880	.9793945	.9889950	.9943081	.9972657	.9987264	.9994326
27	.9066370	.9427000	.9664731	.9812863	.9900293	.9949260	.9975323	.9988525
28	.8665149	.9144394	.9477106	.9695171	.9830399	.9909892	.9954262	.9977809
29	.8163623	.8772042	.9216871	.9523535	.9723342	.9846623	.9918778	.9958897
30	.7564098	.8302871	.8871695	.9284167	.9566526	.9749381	.9861606	.9926982
31	.6877975	.7736906	.8433369	.8964565	.9346617	.9606297	.9773417	.9875416
32	.6125452	.7082618	.7899939	.8555613	.9051072	.9404529	.9643052	.9795572
33	.5333736	.6357044	.7277224	.8053653	.8670064	.9131602	.9458191	.9676981
34	.4534022	.5584523	.6579286	.7462116	.8198490	.8777151	.9206513	.9507866
35	.3757830	.4794195	.5827640	.6792289	.7637619	.8334831	.8877272	.9276138
36	.3033384	.4016682	.5049223	.6062921	.6996183	.7804048	.8463096	.8970803
37	.2382783	.3280614	.4273471	.5298661	.6290252	.7191120	.7961717	.8583646
38	.1819990	.2609603	.3529025	.4527515	.5543133	.6509563	.7377266	.8110932
39	.1351046	.2020202	.2840668	.3777790	.4778208	.5779323	.6720817	.7554799
40	.0974288	.1521070	.2227022	.3075056	.4026145	.5025009	.6009969	.6924011
41	.0682300	.1113332	.1699328	.2439668	.3311951	.4273389	.5267441	.6233855
42	.0463902	.0791873	.1261375	.1885210	.2657375	.3550577	.4518877	.5505081
43	.0306171	.0547159	.0910414	.1410208	.2070091	.2879395	.3790203	.4762018
44	.0196125	.0367199	.0638723	.1037763	.1582863	.2277337	.3104998	.4030137
45	.0121928	.0239304	.0435462	.0738641	.1173713	.1755424	.2482310	.3333480
46	.0073563	.0151428	.0288446	.0511160	.0846906	.1318011	.1935227	.2692373

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 132

x	.25	.26	.27	.28	.29	.30	.31	.32
47	.0043071	.0093034	.0185605	.0343846	.0594445	.0963461	.1470362	.2131771
48	.0024474	.0055493	.0116096	.0224789	.0405782	.0685426	.1088207	.1630440
49	.0013496	.0032135	.0070420	.0142799	.0269288	.0474417	.0784167	.1220997
50	.0007223	.0018066	.0041517	.0088139	.0173728	.0319390	.0549999	.0890690
51	.0003752	.0009861	.0023771	.0052853	.0108936	.0207099	.0375358	.0632663
52	.0001892	.0005225	.0013217	.0030769	.0066386	.0133100	.0249203	.0437430
53	.0000926	.0002688	.0007137	.0017424	.0039313	.0082365	.0160916	.0294319
54	.0000440	.0001343	.0003743	.0009578	.0022622	.0049544	.0101044	.0193664
55	.0000203	.0000651	.0001906	.0005115	.0012649	.0028966	.0061652	.0122679
56	.0000091	.0000307	.0000943	.0002653	.0006872	.0016459	.0036618	.0075973
57	.0000039	.0000140	.0000453	.0001337	.0003527	.0009089	.0021129	.0045751
58	.0000017	.0000062	.0000211	.0000654	.0001860	.0004877	.0011850	.0026788
59	.0000007	.0000027	.0000096	.0000311	.0000927	.0002543	.0006460	.0015249
60	.0000003	.0000011	.0000042	.0000144	.0000448	.0001289	.0003422	.0008438
61	.0000001	.0000005	.0000018	.0000064	.0000211	.0000634	.0001762	.0004539
62		.0000002	.0000007	.0000028	.0000096	.0000303	.0000882	.0002373
63		.0000001	.0000003	.0000012	.0000043	.0000141	.0000429	.0001206
64			.0000001	.0000005	.0000018	.0000064	.0000202	.0000595
65				.0000002	.0000008	.0000028	.0000093	.0000286
66				.0000001	.0000003	.0000012	.0000041	.0000133
67					.0000001	.0000005	.0000018	.0000060
68						.0000002	.0000008	.0000027
69						.0000001	.0000003	.0000011
70							.0000001	.0000005
71								.0000003
72								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	.99999992	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	.99999990	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	.99999972	.99999991	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
22	.99999925	.99999974	.99999991	.99999997	.99999999	1.00000000	1.00000000	1.00000000
23	.99999807	.99999931	.99999976	.99999992	.99999997	.99999999	1.00000000	1.00000000
24	.99995588	.99998823	.99999936	.99999978	.99999993	.99999998	.99999999	1.00000000
25	.99989906	.99996572	.99998840	.99999942	.99999980	.99999994	.99999998	.99999999
26	.99975814	.99990013	.99996614	.99998856	.99999948	.99999982	.99999994	.99999998
27	.99948964	.99977828	.99991115	.99996655	.99998871	.99999954	.99999984	.99999995
28	.99897054	.99954314	.99980060	.99992312	.99997694	.99999886	.99999959	.99999986
29	.99801164	.99908014	.99959304	.99984277	.99993024	.99997730	.99999000	.99999644
30	.99631784	.99822484	.99918154	.99963914	.99984784	.99993864	.99997634	.99999124
31	.99345374	.99671194	.99842094	.99927484	.99968154	.99986624	.99994634	.99997944
32	.98881194	.99414754	.99707344	.99866074	.99936034	.99972034	.99988314	.99995334
33	.98159614	.98997814	.99478324	.99764034	.99876404	.99943814	.99977564	.99990844
34	.97082614	.98346924	.99104624	.99536384	.99770504	.99893894	.99957894	.99983754
35	.95538034	.97370604	.98318724	.99202244	.99589274	.99798444	.99920894	.99967234
36	.93407904	.95960334	.97635354	.98675974	.99291244	.99637304	.99852594	.99934174
37	.90580964	.94007574	.96353714	.97878344	.98819624	.99372184	.99727014	.99868044
38	.86968334	.91394844	.94563164	.96714244	.98109974	.98950584	.99504114	.99736494
39	.82519934	.88029954	.92152794	.95077214	.97045814	.98305574	.99130454	.99504804
40	.77239064	.83851944	.89024544	.92857794	.95552184	.97356284	.98499394	.99117764
41	.71191674	.78847034	.85108214	.89955204	.93512664	.95990354	.97629284	.98459684
42	.64508074	.73063324	.80376294	.86291564	.90824884	.94120084	.96393914	.97484534
43	.57375564	.66606894	.74855724	.81826504	.87404724	.91636454	.94683634	.96076944
44	.50022724	.59645404	.68633964	.76569674	.83120544	.88455094	.92392654	.94052734
45	.42697314	.52391454	.61857464	.70588544	.78206184	.84550514	.89431204	.91309614
46	.35641604	.45083774	.54721874	.64009294	.72470154	.79766354	.85728584	.90349714
47	.29060934	.37963834	.47745024	.57009914	.66094774	.74278554	.81351404	.86886864
48	.23145394	.31252464	.40295224	.49805754	.59251844	.68154084	.76013704	.82666264
49	.17976874	.25133024	.33468164	.42629734	.52150954	.61444314	.70083724	.77675774
50	.13616524	.19793204	.27166264	.35710004	.44961614	.54425984	.63584364	.71976464
51	.10049814	.15099544	.21533334	.29844704	.37979084	.47285374	.56668514	.65669224
52	.07225264	.11286954	.16656554	.24405024	.31371944	.40240864	.49545764	.58900534
53	.05058194	.08196724	.12566124	.19384794	.25333904	.33530574	.42534074	.51888784
54	.03447084	.05807094	.09241534	.15037414	.19981824	.27315434	.35719204	.44888934
55	.02286184	.04006154	.06622594	.11359894	.15382204	.21742604	.29345004	.37993494
56	.01475274	.02690434	.04662264	.08506004	.11551674	.16898664	.23566474	.31417894
57	.00926104	.01758464	.03141964	.06259694	.08458364	.12816464	.18404704	.25446184
58	.00565454	.01118384	.02078094	.04536384	.06036094	.09480474	.14153554	.20137994
59	.00335754	.00692184	.01338684	.03243074	.04196524	.06836544	.10577884	.15561974
60	.00193854	.00416364	.00838784	.02289534	.02884464	.04804084	.07707474	.11735694
61	.00108824	.00243684	.00511364	.01608134	.01973214	.03288484	.05467944	.08638154
62	.00059384	.00138674	.00303134	.01062214	.01320304	.02192054	.03782444	.06190034
63	.00031504	.00076734	.00173784	.00673474	.00875054	.01422504	.02543394	.04323404
64	.00016244	.00041274	.00097994	.00421064	.00565004	.00894434	.01671754	.02943554
65	.00008144	.00021584	.00053424	.00258134	.00356404	.00552134	.01067484	.01951984
66	.00003964	.00010964	.00028304	.00156354	.00221484	.00330094	.00663384	.01259624

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 15

c	.33	.34	.35	.36	.37	.38	.39	.40
67	.00001187	.00000541	.0001458	.0003669	.0008655	.0019194	.0040101	.0079109
68	.00000086	.0000260	.0000730	.0001914	.0004703	.0010853	.0023580	.0048341
69	.0000038	.0000121	.0000355	.0000970	.0002484	.0005966	.0013483	.0028733
70	.0000017	.0000055	.0000168	.0000478	.0001275	.0003188	.0007496	.0016609
71	.0000007	.0000024	.0000077	.0000229	.0000636	.0001656	.0004051	.0009334
72	.0000003	.0000010	.0000034	.0000106	.0000308	.0000835	.0002120	.0005099
73	.0000001	.0000004	.0000015	.0000048	.0000145	.0000410	.0001086	.0002707
74		.0000002	.0000006	.0000021	.0000066	.0000198	.0000538	.0001396
75		.0000001	.0000003	.0000009	.0000029	.0000090	.0000259	.0000700
76			.0000001	.0000004	.0000013	.0000040	.0000121	.0000340
77				.0000001	.0000005	.0000018	.0000055	.0000161
78				.0000001	.0000002	.0000007	.0000024	.0000074
79					.0000001	.0000003	.0000010	.0000033
80						.0000001	.0000004	.0000014
81							.0000002	.0000006
82							.0000001	.0000002
83								.0000001

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
26	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
27	.9999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
28	.9999995	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
29	.9999988	.9999996	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
30	.9999969	.9999990	.9999997	.9999999	1.00000000	1.00000000	1.00000000	1.00000000
31	.9999924	.9999973	.9999991	.9999997	.9999999	1.00000000	1.00000000	1.00000000
32	.9999822	.9999935	.9999977	.9999992	.9999998	.9999999	1.00000000	1.00000000
33	.9999596	.9999847	.9999944	.9999981	.9999994	.9999999	.9999999	1.00000000
34	.9999122	.9999653	.9999869	.9999953	.9999984	.9999995	.9999998	1.00000000
35	.9998168	.9999346	.9999704	.9999889	.9999960	.9999987	.9999996	.9999999
36	.9996295	.9998419	.9999356	.9999749	.9999907	.9999967	.9999989	.9999996
37	.9992798	.9996805	.9998647	.9999453	.9999789	.9999922	.9999973	.9999991
38	.9986494	.9993775	.9997260	.9998848	.9999530	.9999823	.9999936	.9999978
39	.9975541	.9988287	.9994643	.9997661	.9999026	.9999613	.9999853	.9999945
40	.9957196	.9978710	.9989886	.9995413	.9998015	.9999100	.9999677	.9999879
41	.9927557	.9962586	.9981543	.9991306	.9996092	.9998334	.9999311	.9999733
42	.9881340	.9936346	.9967419	.9984065	.9992661	.9996607	.9998591	.9999431
43	.9811753	.9895279	.9944334	.9971738	.9986302	.9993666	.9997201	.9998827
44	.9710541	.9832976	.9907883	.9951466	.9975504	.9988279	.9994631	.9997659
45	.9568274	.9741719	.9852262	.9919248	.9957846	.9978997	.9990010	.9995478
46	.9374948	.9612490	.9770209	.9869744	.9929465	.9963535	.9982014	.9991548
47	.9120846	.9435503	.9653136	.9796181	.9885548	.9938624	.9968590	.9984671
48	.8797731	.9200991	.9491534	.9690420	.9819800	.9899795	.9946807	.9973065
49	.8400157	.8900271	.9275650	.9543267	.9724540	.9841382	.9913600	.9954093
50	.7926510	.8536963	.8996463	.9345061	.9590928	.9755687	.9860598	.9924078
51	.7380130	.8078221	.8646842	.9086544	.9409458	.9634734	.9784047	.9878070
52	.6769458	.7555750	.8222774	.8759959	.9170734	.9469071	.9674899	.9809796
53	.6103[illegible]	.6966411	.7734451	.8360250	.8866486	.9249250	.9524127	.9711627
54	.5415677	.6332242	.7157014	.7886202	.8490742	.8956600	.9322310	.9574846
55	.4710992	.5639817	.6530768	.7341297	.8040980	.8614354	.9060485	.9390133
56	.4016514	.4938994	.5860774	.6734110	.7519124	.8188813	.8731204	.9148387
57	.3352934	.4241198	.5165803	.6078148	.6932027	.7690378	.8329700	.8841420
58	.2738092	.3567453	.4466767	.5390941	.6291559	.7124254	.7854965	.8461677
59	.2185396	.2936573	.3784859	.4692731	.5613946	.6500650	.7310580	.8012813
60	.1704047	.2363582	.3139652	.4004666	.4910585	.5834377	.6705088	.7499810
61	.1296907	.1858757	.2547457	.3346908	.4226384	.5141837	.6051804	.6904560
62	.0962959	.1427273	.2020153	.2736903	.3557910	.4449525	.5368009	.6265021
63	.0697287	.1069463	.1564619	.2188038	.2931583	.3772218	.4673600	.5590639
64	.0493013	.0781570	.1182787	.1708871	.2362195	.3131145	.3989382	.4898133
65	.0338479	.0556809	.0872354	.1302970	.1859936	.2542382	.3335220	.4208947
66	.0226517	.0386538	.0627145	.0969328	.1430031	.2017695	.2728339	.3543423
67	.0147675	.0261371	.0439452	.0703208	.1072961	.1563958	.2183000	.2919786
68	.0093705	.0173086	.0299972	.0497235	.0785173	.1183228	.1704757	.2352712
69	.0057654	.0110283	.0199393	.0342539	.0560099	.0873203	.1300205	.1852353
70	.0034747	.0068772	.0129015	.0229800	.0389291	.06282[illegible]	.0967449	.1423958
71	.0020294	.0041719	.0081233	.0150077	.0263514	.0440444	.0701872	.1058050
72	.0011524	.0024612	.0049755	.0095378	.0173651	.0300744	.0496213	.0781169
73	.0006341	.0014116	.0029637	.0058967	.0111359	.0199922	.0341700	.0566013
74	.0003418	.0007870	.0017163	.0035452	.0069469	.0129331	.0229680	.0386575
75	.0001778	.0004263	.0009660	.0020722	.0042143	.0081387	.0149453	.0251381
76	.0000900	.0002244	.0005283	.0011771	.0024853	.0049803	.0094847	.0171095

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 132

c	.41	.42	.43	.44	.45	.46	.47	.48
77	.00000442	.00001147	.00002807	.00006496	.00014244	.00029684	.00585 28	.01099984
78	.00000211	.00000569	.00001448	.00003483	.00007930	.00017123	.00351058	.00668428
79	.00000098	.00000274	.00000785	.00001813	.00004288	.00009614	.00210458	.00413369
80	.00000044	.00000128	.00000383	.00000916	.00002251	.00005242	.00011580	.00243000
81	.00000019	.00000058	.00000166	.00000449	.00001147	.00002774	.00006364	.00013868
82	.00000008	.00000026	.00000076	.00000214	.00000567	.00001425	.00003394	.00007676
83	.00000003	.00000011	.00000034	.00000099	.00000272	.00000710	.00001756	.00004124
84	.00000001	.00000005	.00000015	.00000044	.00000126	.00000343	.00000881	.00002150
85	.00000001	.00000002	.00000006	.00000019	.00000057	.00000161	.00000429	.00001086
86		.00000001	.00000002	.00000006	.00000025	.00000073	.00000208	.00000532
87			.00000001	.00000003	.00000011	.00000032	.00000092	.00000252
88				.00000001	.00000004	.00000014	.00000041	.00000116
89					.00000002	.00000006	.00000017	.00000052
90					.00000001	.00000002	.00000007	.00000022
91						.00000001	.00000003	.00000009
92							.00000001	.00000004
93								.00000001
94								.00000001

c	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	1.00000000	1.00000000
22	1.00000000	1.00000000
23	1.00000000	1.00000000
24	1.00000000	1.00000000
25	1.00000000	1.00000000
26	1.00000000	1.00000000
27	1.00000000	1.00000000
28	1.00000000	1.00000000
29	1.00000000	1.00000000
30	1.00000000	1.00000000
31	1.00000000	1.00000000
32	1.00000000	1.00000000
33	1.00000000	1.00000000
34	1.00000000	1.00000000
35	1.00000000	1.00000000
36	.99999999	1.00000000
37	.99999997	.99999999
38	.99999993	.99999998
39	.99999982	.99999994
40	.99999957	.99999985
41	.99999901	.99999965
42	.99999781	.99999920
43	.99999531	.99999831
44	.99999037	.99999615
45	.99998049	.99999199
46	.99996211	.99998384
47	.99992871	.99996844
48	.99987000	.99994024
49	.99977010	.99989032
50	.99960556	.99980474
51	.99934314	.99966268
52	.99893776	.99943427
53	.99833106	.99907647
54	.99745181	.99854142
55	.99631449	.99778573
56	.99452937	.99664148
57	.99230320	.99510939
58	.98945138	.99306660
59	.98590839	.99042506
60	.98163868	.98711195
61	.97664771	.98308099
62	.97098775	.97832314
63	.96476035	.97287463
64	.95811237	.96680073
65	.95108609	.96029387
66	.94370450	.95346578
67	.93595358	.94634422
68	.92786431	.93890613
69	.91942624	.93117927
70	.91066692	.92312537
71	.90161510	.91476686
72	.89228131	.90614901
73	.88266318	.89728805
74	.87276452	.88817494
75	.86259644	.87883340
76	.85216844	.86926961

$$P(o,n,p) = \sum_{x=0}^{p} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 132

x	.49	.50
77	.0196887	.0335852
78	.0136939	.0244497
79	.0079598	.0145858
80	.0048497	.0092153
81	.0028705	.0056573
82	.0016497	.0033732
83	.0009302	.0019526
84	.0004980	.0010960
85	.0002613	.0005976
86	.0001389	.0003156
87	.0000715	.0001616
88	.0000363	.0000801
89	.0000145	.0000385
90	.0000065	.0000179
91	.0000028	.0000080
92	.0000012	.0000036
93	.0000005	.0000015
94	.0000002	.0000006
95	.0000001	.0000002
96		.0000001

$$I(e,m,p) = \sum_{r=e}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 133$$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.7378874	.9316134	.9835963	.9856139	.9949105	.9997333	.9999357	.9999847
2	.3843503	.7471032	.9110081	.9713079	.9913030	.9974693	.9992980	.9998088
3	.1490589	.4981765	.7648795	.9044663	.9647910	.9879315	.9960941	.9987948
4	.0438778	.2763436	.5875305	.7848516	.9039040	.9613475	.9855836	.9949468
5	.0110074	.1295099	.3991643	.6181651	.7997552	.9061999	.9590725	.9840720
6	.0023886	.0517394	.2108803	.4411271	.6683382	.8153022	.9099431	.9596748
7	.0004153	.0180100	.1064455	.2837600	.4995414	.6917187	.8247697	.9144168
8	.0000647	.0058223	.0478451	.1647980	.3479141	.5485030	.7008557	.8430144
9	.0000089	.0015068	.0191001	.0867991	.2288231	.4041286	.5704491	.7458249
10	.0000011	.0003704	.0070385	.0415504	.1503416	.2768917	.4548099	.6871817
11	.0000001	.0000825	.0023761	.0182081	.0703808	.1758684	.3681714	.4997767
12		.0000168	.0007099	.0073327	.0350908	.1027648	.2815870	.3795533
13		.0000031	.0001986	.0027857	.0168078	.0569741	.1400859	.2664867
14		.0000005	.0000514	.0009391	.0069574	.0291754	.0884847	.1776864
15		.0000001	.0000123	.0003010	.0027843	.0139864	.0460198	.1118525
16			.0000028	.0000900	.0010419	.0062648	.0240066	.0660973
17			.0000006	.0000258	.0003656	.0026394	.0117869	.0370825
18			.0000001	.0000066	.0001206	.0010467	.0054560	.0195985
19				.0000016	.0000375	.0003915	.0023863	.0098007
20				.0000004	.0000110	.0001304	.0009874	.0046439
21				.0000001	.0000031	.0000463	.0003878	.0020860
22					.0000008	.0000147	.0001448	.0008980
23					.0000002	.0000044	.0000510	.0003626
24						.0000013	.0000178	.0001404
25						.0000003	.0000055	.0000519
26						.0000001	.0000017	.0000183
27							.0000005	.0000060
28							.0000001	.0000020
29								.0000006
30								.0000001
31								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999964	.9999992	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999496	.9999870	.9999968	.9999993	.9999998	1.0000000	1.0000000	1.0000000
3	.9996431	.9998981	.9999719	.9999925	.9999980	.9999995	.9999999	1.0000000
4	.9983198	.9994665	.9998374	.9999503	.9999865	.9999963	.9999990	.9999997
5	.9940664	.9979080	.9993976	.9997743	.9999304	.9999793	.9999941	.9999984
6	.9838131	.9934402	.9975759	.9991481	.9997140	.9999079	.9999715	.9999915
7	.9603140	.9838500	.9930366	.9973263	.9992042	.9997601	.9999066	.9999737
8	.9151844	.9615014	.9850575	.9935195	.9979552	.9993021	.9997418	.9999278
9	.8358208	.9241413	.9696430	.9851391	.9937538	.9979511	.9993594	.9998298
10	.7673031	.8664870	.9390241	.9684057	.9836197	.9938078	.9980079	.9994163
11	.6594838	.7870520	.8762000	.9338055	.9666964	.9842419	.9929563	.9979144
12	.5400457	.6881608	.7848564	.8865367	.9384208	.9686494	.9849415	.9951765
13	.4203531	.5768749	.6743296	.8210049	.8954642	.9428431	.9706179	.9897445
14	.3099870	.4615782	.5610867	.7378099	.8357309	.9037417	.9470580	.9795683
15	.2126271	.3517717	.4498628	.6406124	.7592093	.8491813	.9114912	.9619561
16	.1430185	.2549794	.3516850	.5334402	.6684940	.7787181	.8615996	.9285489
17	.0894746	.1756635	.2693002	.4296715	.5685304	.6941213	.7965973	.8798119
18	.0530888	.1150101	.2009037	.3304068	.4657322	.5993404	.7177348	.8130806
19	.0297906	.0718794	.1423958	.2431741	.3667394	.4999068	.6284080	.7313377
20	.0158943	.0433715	.0992182	.1711759	.2770087	.4010385	.5382526	.6548804
21	.0080554	.0249732	.0670002	.1152137	.2009533	.3110220	.4450936	.5638417
22	.0038837	.0138134	.0437931	.0741505	.1396401	.2313072	.3443931	.4685608
23	.0017838	.0065573	.0270594	.0456438	.0929984	.1653807	.2681804	.3771526
24	.0007807	.0032026	.0102710	.0268834	.0593633	.1135398	.1901796	.2931178
25	.0003268	.0014943	.0059325	.0151582	.0368278	.0748524	.1355540	.2197541
26	.0001302	.0006666	.0026098	.0081871	.0213203	.0473937	.0919857	.1588373
27	.0000497	.0002846	.0012325	.0042384	.0120053	.0288260	.0600487	.1106015
28	.0000182	.0001164	.0005578	.0021045	.0064402	.0168473	.0377516	.0742113
29	.0000064	.0000456	.0002480	.0010029	.0033689	.0094651	.0227024	.0479942
30	.0000021	.0000172	.0001009	.0004590	.0016867	.0051139	.0132585	.0298983
31	.0000007	.0000062	.0000404	.0002019	.0008062	.0026503	.0074260	.0179493
32	.0000002	.0000022	.0000155	.0000854	.0003721	.0013302	.0040061	.0103870
33	.0000001	.0000007	.0000058	.0000347	.0001653	.0006410	.0020825	.0057957
34		.0000002	.0000020	.0000136	.0000707	.0002976	.0010435	.0031190
35		.0000001	.0000007	.0000051	.0000299	.0001332	.0005043	.0016195
36			.0000002	.0000019	.0000116	.0000575	.0002351	.0008116
37			.0000001	.0000007	.0000044	.0000239	.0001053	.0003927
38				.0000002	.0000016	.0000096	.0000440	.0001815
39				.0000001	.0000006	.0000037	.0000193	.0000829
40					.0000002	.0000014	.0000078	.0000363
41					.0000001	.0000005	.0000031	.0000153
42						.0000002	.0000012	.0000062
43						.0000001	.0000004	.0000025
44							.0000002	.0000009
45							.0000001	.0000003
46								.0000001

N	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999976	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999886	.9999967	.9999996	.9999997	.9999999	1.0000000	1.0000000	1.0000000
8	.9999563	.9999868	.9999958	.9999986	.9999996	.9999999	1.0000000	1.0000000
9	.9998515	.9999408	.9999837	.9999949	.9999985	.9999996	.9999999	1.0000000
10	.9995333	.9998188	.9999443	.9999815	.9999941	.9999988	.9999995	.9999998
11	.9987960	.9995368	.9998256	.9999399	.9999797	.9999934	.9999979	.9999994
12	.9970616	.9987955	.9995269	.9998236	.9999369	.9999783	.9999928	.9999977

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 133$$

N	.17	.18	.19	.20	.21	.22	.23	.24
13	.99344492	.99711412	.99888117	.99958866	.99986818	.99994380	.99998773	.99999834
14	.99865646	.99937619	.99978460	.99988417	.99995349	.99998114	.99999343	.99999768
15	.99744780	.99874015	.99940980	.99973697	.99988885	.99995466	.99998240	.99999344
16	.99548351	.99763864	.99882399	.99944503	.99975069	.99990318	.99995600	.99998888
17	.99251661	.99603970	.99781056	.99890677	.99948100	.99976530	.99988715	.99995825
18	.98813438	.99313098	.99617461	.99798064	.99898760	.99951705	.99970848	.99990470
19	.98811362	.98939914	.99370135	.99648854	.99814038	.99906868	.99935268	.99979574
20	.97597031	.98408808	.99019009	.99403076	.99678947	.99829551	.99914094	.99938748
21	.97904859	.97783800	.98549539	.99101340	.99478196	.99705707	.99843991	.99881840
22	.95917495	.97031378	.97956976	.98688513	.99177444	.99517750	.99731314	.99757559
23	.94999316	.96190833	.97249357	.98117666	.98776610	.99247469	.99559971	.99555150
24	.94091710	.95097556	.96448501	.97451077	.98269806	.98880491	.99313971	.99299078
25	.93839707	.94403646	.95567083	.96691545	.97643814	.98405876	.98974015	.98973178
26	.94784850	.93645809	.94706308	.95861476	.96898967	.97821953	.98534483	.98681864
27	.93115908	.92767706	.93848105	.94994481	.96031882	.97137313	.97980001	.98341170
28	.91304093	.91803341	.92950339	.94145467	.95087537	.96378498	.97341179	.97951150
29	.89906850	.90741917	.91991804	.93319204	.94136974	.95585864	.96609754	.97533805
30	.89596540	.89605585	.91040256	.92605507	.93282959	.94781188	.95818715	.97035308
31	.89389804	.88710004	.90096310	.91971810	.92478448	.93906448	.94999506	.96071088
32	.88146033	.87772806	.89169696	.91444833	.91810300	.93140269	.94186453	.95269645
33	.86140781	.86809719	.88268597	.91051130	.91284933	.92455234	.93419648	.94660734
34	.84880973	.85855478	.87379919	.90701994	.90893316	.91868160	.92705995	.94188648
35	.84449880	.84909765	.86507710	.90467864	.90635141	.91570167	.92083370	.93858496
36	.84241980	.83963706	.85645020	.90300887	.90566657	.91477854	.91956144	.93711481
37	.84019500	.83034703	.84805194	.90187250	.90378374	.91367881	.91811058	.93553075
38	.83866850	.82118540	.83984404	.90110771	.90189900	.91183435	.91566615	.93294093
39	.83810288	.81209577	.83186603	.90065718	.90146057	.91094547	.91454940	.93187446
40	.83811417	.80314184	.82414148	.90049108	.90045188	.91055851	.91360610	.93144863
41	.83800641	.79433113	.81673779	.90030857	.90050404	.91013841	.91311718	.93135157
42	.83800280	.78561091	.80953635	.90010714	.90028288	.90966978	.91443777	.93049444
43	.83800119	.77700109	.80261748	.90005407	.90015316	.90938396	.90873138	.92881038
44	.83800049	.76850214	.79600418	.90002728	.90009858	.90921335	.90851113	.92811397
45	.83800019	.76011341	.78969369	.90001309	.90004108	.90911498	.90890043	.92866743
46	.83800007	.75184837	.78368168	.90000609	.90002035	.90906003	.90916005	.93038789
47	.83800003	.74370915	.77796642	.90000275	.90000970	.90903039	.90886555	.93091806
48	.83800001	.73570806	.77254808	.90000120	.90000450	.90901498	.90844336	.93011918
49		.72784784	.76742651	.90000051	.90000208	.90900711	.90828851	.92963159
50		.72013101	.76260084	.90000021	.90000088	.90900388	.90810840	.92933849
51		.71256017	.75807013	.90000008	.90000037	.90900147	.90900516	.90001688
52		.70513788	.75383309	.90000003	.90000015	.90900064	.90900837	.90000706
53			.74988738	.90000001	.90000006	.90900027	.90900106	.90900370
54					.90900003	.90900011	.90900046	.90900169
55					.90900001	.90900004	.90900017	.90900075
56						.90900002	.90900008	.90900032
57						.90900001	.90900003	.90900013
58							.90900001	.90900005
59								.90900002
60								.90900001

N	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	.99999976	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
14	.99999931	.99999974	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000
15	.99999847	.99999920	.99999974	.99999993	.99999997	.99999999	1.00000000	1.00000000
16	.99999358	.99999769	.99999920	.99999974	.99999990	.99999997	.99999999	1.00000000
17	.99999353	.99999378	.99999775	.99999928	.99999974	.99999992	.99999997	.99999999
18	.99996047	.99998411	.99999404	.99999783	.99999924	.99999975	.99999998	.99999997
19	.99991004	.99996388	.99998519	.99999434	.99999793	.99999927	.99999976	.99999998
20	.99981101	.99991730	.99996540	.99998614	.99999469	.99999831	.99999931	.99999977
21	.99891114	.99976608	.99993366	.99996797	.99998714	.99999505	.99999818	.99999936
22	.99838559	.99965344	.99984061	.99992994	.99997655	.99998815	.99997843	.99999931
23	.99770867	.99934476	.99968421	.99985453	.99993608	.99997309	.99994914	.99999508
24	.99717869	.99883133	.99940505	.99971333	.99986804	.99994193	.99987555	.99999015
25	.99615263	.99797843	.99893181	.99946145	.99974073	.99988073	.99974784	.99997793
26	.99488130	.99668720	.99816866	.99903437	.99951400	.99976637	.99949866	.99995804
27	.99141018	.99480269	.99699619	.99834448	.99913931	.99956879	.99899053	.99990288
28	.98704454	.99187893	.99527765	.99728125	.99850666	.99921702	.99800791	.99981838
29	.98000065	.98688853	.99287138	.99571593	.99754387	.99865603	.99629778	.99964945
30	.97113570	.98404855	.98964893	.99351190	.99612000	.99778554	.99479369	.99937125
31	.96435605	.97884057	.98551717	.99054054	.99410390	.99649888	.99000786	.99891917
32	.95111503	.97052733	.98043965	.98670132	.99136780	.99465060	.98634485	.99811188
33	.93116665	.96545693	.97445357	.98194202	.98780537	.99213480	.98154490	.99714030
34	.92119951	.95785379	.96767747	.97627747	.98335239	.98871486	.97584533	.99591983
35	.91511978	.94999680	.96030585	.96979844	.97800361	.98467527	.96979336	.99350991
36	.93114495	.94118036	.95259395	.96267144	.97183159	.97643285	.96591491	.99068512
37	.92545389	.93471993	.94483924	.95522654	.96494978	.96774998	.96117148	.98707336
38	.91960674	.92764066	.93730226	.94743436	.95750087	.95714030	.95584446	.98044801
39	.91468285	.92173447	.93026524	.93987713	.94997746	.94884395	.94884316	.97327461
40	.91088477	.91650844	.92392706	.93271838	.94244243	.94051303	.94030338	.96718643
41	.90855247	.91219344	.91841805	.92617577	.93519068	.93298875	.93497696	.96454704
42	.90518602	.90875453	.91379622	.92040458	.92847808	.92567481	.92750938	.96158889
43	.90345604	.90610784	.91005173	.91548639	.92246064	.91960757	.92016098	.95997793
44	.90253637	.90413988	.90712079	.91144237	.91726479	.91457955	.91417411	.95843336
45	.90140478	.90278556	.90490343	.90833395	.91393367	.91011998	.90975343	.95564610

$$B(r;n,p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 100

x	.05	.10	.15	.20	.25	.30	.35	.40
46	.00056554	.01749776	.05301411	.09744855	.09941600	.14499435	.18104883	.20975157
47	.00030694	.01004217	.03133730	.08136694	.09867659	.13869826	.17614702	.20104364
48	.00016105	.00652354	.02134730	.06850105	.09460400	.13260637	.17126675	.19226866
49	.00016841	.00384004	.01447948	.05657756	.08904845	.12670990	.16641019	.18346010
50	.00008791	.00221784	.00969381	.04701443	.08201440	.12029890	.16058541	.17463829
51	.00046R0	.00119964	.00645562	.03868733	.07387786	.11348184	.15379497	.16581317
52	.00023157	.00064411	.00426067	.03169967	.06484788	.10635900	.14609311	.15699905
53	.00011767	.00033448	.00280779	.02601166	.05521164	.09897586	.13758445	.14820115
54	.00005561	.00016993	.00184659	.02117775	.04574463	.09159321	.12870404	.13942194
55	.00002608	.00008431	.00120408	.01706365	.03715641	.08451140	.12007891	.13065074
56	.00001119	.00004396	.00078203	.01363148	.02984447	.07808911	.11209441	.12189910
57	.00000482	.00002184	.00050585	.01071705	.02384558	.07245011	.10485311	.11318408
58	.00000232	.00001063	.00032877	.00830845	.01908372	.06761141	.09834127	.10451856
59	.00000094	.00000536	.00021107	.00640407	.01541197	.06353421	.09250111	.09591441
60	.00000044	.00000215	.00013659	.00489191	.01264847	.06013685	.08725364	.08738618
61	.00000021	.00000096	.00008825	.00370487	.01060880	.05731431	.08253877	.07893787
62	.00000011	.00000043	.00005710	.00278018	.00913130	.05494401	.07829155	.07059064
63		.00000021	.00003694	.00207016	.00806190	.05288569	.07445139	.06234579
64			.00002394	.00153007	.00726985	.05099771	.07096539	.05420790
65			.00001551	.00112003	.00661189	.04914639	.06777116	.04618184
66				.00081901	.00603004	.04720417	.06481557	.03839787
67				.00059807	.00548000	.04508085	.06202407	.03087155
68				.00043501	.00494007	.04272011	.05934364	.02363066
69				.00031501	.00441011	.04010555	.05673037	.01668577
70				.00022701	.00388004	.03725008	.05415000	.01005007
71				.00016201	.00335003	.03419001	.05157003	.00374003
72				.00011501	.00284001	.03097001	.04898001	.00134001

x	.45	.50	.55	.60	.65	.70	.75	.80
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	.99999978	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
22	.99999940	.99999980	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000
23	.99999845	.99999945	.99999981	.99999994	.99999998	.99999999	1.00000000	1.00000000
24	.99999600	.99999860	.99999950	.99999983	.99999995	.99999998	.99999999	1.00000000
25	.99999111	.99999657	.99999874	.99999955	.99999985	.99999995	.99999998	1.00000000
26	.99998010	.99999203	.99999693	.99999887	.99999960	.99999987	.99999996	.99999999
27	.99993788	.99998231	.99999090	.99999727	.99999900	.99999965	.99999888	.99999998
28	.99991418	.99996846	.99998429	.99999371	.99997759	.99999919	.99999709	.99999900
29	.99983800	.99992375	.99996675	.99998613	.99994447	.99997789	.99999093	.99999723
30	.99968768	.99985156	.99993055	.99997070	.99988783	.99995916	.99997116	.99999133
31	.99439888	.99792863	.99966871	.99944060	.99897430	.99980917	.99995800	.99998841
32	.99034377	.99501994	.99754450	.99844434	.99747491	.99937768	.99994077	.99998537
33	.98139773	.99139557	.99553047	.99717347	.99509851	.99895453	.99990855	.99999903
34	.97413008	.98560008	.99283541	.99560982	.99209971	.99841131	.99979050	.99998119
35	.96064774	.97703555	.98923378	.99339853	.98863339	.99783348	.99964584	
36	.94110084	.96441144	.98444653	.98866542	.98401851	.99693831	.99943469	.99993135
37	.91513085	.94672119	.97794453	.98156549	.97699413	.99473291	.99896310	.99987376
38	.88160050	.92088317	.96918985	.97113331	.96736487	.99110079	.99813234	.99977000
39	.83987900	.88917401	.95696654	.95636654	.95434803	.98550005	.99681630	.99958825
40	.78988175	.85027846	.94011941	.93656700	.93610480	.97719800	.99471031	.99931147
41	.73187731	.80549233	.91847893	.91000013	.91067788	.96507111	.99179511	.99886668
42	.66713966	.75537606	.89203246	.87610047	.87810916	.94913079	.98794571	.99819456
43	.59729999	.69809207	.86078792	.83413952	.84070118	.92956023	.98315003	.99712778
44	.52449916	.63701230	.82511157	.78846013	.79475609	.90666110	.97738574	.99558276
45	.45114470	.57488779	.78622984	.73974175	.74005410	.88060146	.97058417	.99343784
46	.37969998	.47566038	.74531933	.68937782	.74592248	.81566533	.87177260	.91440827
47	.31237991	.40384461	.70299840	.59523969	.68456619	.76343991	.82997750	.88477000
48	.25100016	.33534333	.65980115	.54399924	.61785580	.70462678	.78055440	.84350344
49	.19688382	.27211168	.61625763	.49211310	.54765568	.63996569	.72359641	.79017053
50	.15056610	.21581532	.57297192	.43920110	.47641486	.57099295	.66119511	.73156618
51	.11236682	.16671558	.53054485	.38157477	.40555800	.49999880	.59377660	.66819218
52	.08157536	.12571794	.48936342	.33501675	.33611309	.42922859	.52316115	.60119881
53	.05773532	.09041558	.44999777	.29128007	.26736797	.35906549	.45288817	.53269609
54	.03978475	.06161956	.41240514	.25080247	.20196171	.29067710	.38377700	.46418868
55	.02669938	.04018047	.37659922	.21647780	.14204384	.22866088	.31853094	.39719464
56	.01748887	.02511778	.34239264	.18533340	.09296966	.17473936	.25819490	.33319173
57	.01107033	.01507533	.30960021	.15807332	.05460289	.12836769	.20446680	.27319487
58	.00684446	.00853996	.27845996	.13439919	.02693933	.09074814	.15804870	.21804277
59	.00411558	.00463687	.24897778	.11387256	.00877716	.06041883	.11962931	.16788258
60	.00240668	.00251004	.22101375	.09609516	.00334284	.03557641	.08888130	.12566700
61	.00136888	.00130239	.19468590	.08121743	.00231146	.01586441	.06339098	.08973205
62	.00075570	.00064437	.16973598	.06876108	.00145035	.00260869	.04439978	.06146177
63	.00040670	.00029779	.14621971	.05846298	.00091761	.00171493	.03028947	.04507177
64	.00021208	.00015333	.12424487	.04974401	.00056500	.00109788	.02001364	.03456655
65	.00010881	.00008037	.10446902	.04215724	.00033449	.00068375	.01290315	.02834894
66	.00005534	.00004457	.00003709	.00008832	.0019728	.0041447	.0082094	.0183454

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 133$$

N	.33	.34	.35	.36	.37	.38	.39	.40
67	.0000256	.0000730	.0001938	.0004809	.0011183	.0024444	.0050331	.0097850
68	.0000120	.0000356	.0000984	.0002546	.0006165	.0014022	.0030023	.0060648
69	.0000054	.0000168	.0000486	.0001310	.0003305	.0007823	.0017421	.0036576
70	.0000024	.0000077	.0000233	.0000655	.0001722	.0004244	.0009831	.0021458
71	.0000010	.0000035	.0000109	.0000319	.0000872	.0002230	.0005395	.0012244
72	.0000004	.0000015	.0000049	.0000150	.0000429	.0001147	.0002878	.0006793
73	.0000002	.0000006	.0000022	.0000069	.0000205	.0000571	.0001492	.0003664
74	.0000001	.0000003	.0000009	.0000031	.0000095	.0000277	.0000752	.0001921
75		.0000001	.0000004	.0000013	.0000043	.0000130	.0000368	.0000970
76			.0000002	.0000006	.0000019	.0000059	.0000175	.0000484
77			.0000001	.0000002	.0000008	.0000026	.0000081	.0000233
78				.0000001	.0000003	.0000011	.0000036	.0000109
79					.0000001	.0000005	.0000016	.0000049
80					.0000001	.0000002	.0000007	.0000022
81						.0000001	.0000003	.0000009
82							.0000001	.0000004
83								.0000002
84								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999947	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999977	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999943	.9999980	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
32	.9999864	.9999951	.9999983	.9999995	.9999999	.9999999	1.0000000	1.0000000
33	.9999689	.9999884	.9999959	.9999986	.9999995	.9999999	1.0000000	1.0000000
34	.9999316	.9999735	.9999902	.9999965	.9999988	.9999996	.9999999	1.0000000
35	.9998586	.9999417	.9999775	.9999917	.9999971	.9999990	.9999997	.9999999
36	.9997060	.9998766	.9999505	.9999811	.9999931	.9999976	.9999992	.9999997
37	.9994232	.9997483	.9998952	.9999603	.9999862	.9999943	.9999980	.9999994
38	.9988079	.9995048	.9997856	.9999114	.9999651	.9999869	.9999953	.9999984
39	.9980032	.9990592	.9995768	.9998184	.9999256	.9999710	.9999882	.9999962
40	.9964718	.9982733	.9991932	.9996402	.9998470	.9999379	.9999760	.9999912
41	.9934709	.9969358	.9985130	.9993113	.9996957	.9998718	.9999485	.9999803
42	.9900289	.9947390	.9973492	.9987251	.9994150	.9997440	.9998932	.9999576
43	.9840284	.9912544	.9954260	.9977162	.9989119	.9995056	.9997859	.9999117
44	.9752038	.9859144	.9923557	.9960385	.9980407	.9990757	.9995843	.9998219
45	.9626604	.9780047	.9876179	.9933424	.9965028	.9983267	.9992188	.9996525
46	.9454208	.9666766	.9805492	.9891526	.9942237	.9970648	.9985776	.9993432
47	.9225025	.9509838	.9703477	.9828549	.9905311	.9950083	.9974899	.9987969
48	.8930220	.9299486	.9561023	.9736955	.9849387	.9917657	.9957045	.9978636
49	.8563171	.9026574	.9368480	.9604014	.9767407	.9868166	.9928677	.9963199
50	.8120705	.8683752	.9116513	.9432272	.9651053	.9795933	.9885039	.9938482
51	.7604146	.8266692	.8797179	.9200292	.9491120	.9690373	.9820026	.9900151
52	.7019948	.7775188	.8405123	.8901656	.9278160	.9545276	.9726198	.9844568
53	.6379768	.7213934	.7938730	.8534122	.9003398	.9350368	.9594990	.9758748
54	.5699870	.6592793	.7401012	.8094783	.8659827	.9096619	.9417364	.9640501
55	.4999913	.5926435	.6800054	.7581055	.8243377	.8776387	.9183543	.9478796
56	.4301250	.5233340	.6148871	.7001277	.7753963	.8384562	.8885966	.9264394
57	.3625002	.4534269	.5464641	.6366775	.7196221	.7919658	.8518407	.8988735
58	.2990177	.3850423	.4767353	.5693312	.6579770	.7384671	.8078090	.8644999
59	.2412119	.3201542	.4078080	.4999944	.5918872	.6787508	.7566441	.8229232
60	.1901482	.2604238	.3417091	.4307415	.5231498	.6140862	.6989669	.7741371
61	.1463835	.2070783	.2802100	.3636321	.4537874	.5461485	.6358848	.7185960
62	.1099878	.1608496	.2246894	.3005305	.3854723	.4768909	.5689393	.6572416
63	.0806166	.1219743	.1760498	.2429539	.3213430	.4083779	.4999972	.5914721
64	.0576142	.0902485	.1346974	.1919705	.2618419	.3426038	.4310965	.5230526
65	.0401310	.0651208	.1005772	.1481567	.2085953	.2813213	.3642676	.4539752
66	.0272340	.0458052	.0732534	.1116130	.1623488	.2259051	.3013573	.3862875
67	.0180001	.0313941	.0520150	.0820301	.1233643	.1772682	.2436784	.3219132
68	.0115833	.0209586	.0359948	.0587863	.0914678	.1358368	.1929065	.2624907
69	.0072553	.0136240	.0242642	.0416003	.0661302	.1015815	.1490344	.2093525
70	.0044221	.0086207	.0159278	.0289405	.0466154	.0740926	.1123844	.1629585
71	.0026220	.0053081	.0101779	.0185155	.0320114	.0526833	.0826693	.1230883
72	.0015120	.0031797	.0063291	.0119446	.0214089	.0365006	.0592873	.0918872
73	.0008478	.0018525	.0038288	.0074988	.0139300	.0246300	.0414321	.0664504
74	.0004621	.0010493	.0022527	.0045798	.0088320	.0161802	.0282011	.0468300
75	.0002448	.0005778	.0012886	.0027203	.0054440	.0103441	.0186878	.0321453

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 133

c	.41	.42	.43	.44	.45	.46	.47	.48
76	.0001260	.0003092	.0007165	.0015709	.0032634	.0064331	.0120312	.0214819
77	.0000630	.0001607	.0003872	.0008817	.0019018	.0038906	.0075598	.0139701
78	.0000306	.0000812	.0002032	.0004809	.0010771	.0022874	.0046113	.0088371
79	.0000144	.0000398	.0001036	.0002547	.0005927	.0013068	.0027342	.0054354
80	.0000066	.0000189	.0000513	.0001310	.0003168	.0007253	.0015752	.0032493
81	.0000029	.0000088	.0000246	.0000654	.0001644	.0003909	.0008815	.0018872
82	.0000013	.0000039	.0000115	.0000317	.0000828	.0002045	.0004790	.0010645
83	.0000005	.0000017	.0000052	.0000149	.0000405	.0001039	.0002526	.0005829
84	.0000002	.0000007	.0000023	.0000068	.0000192	.0000512	.0001293	.0003098
85	.0000001	.0000003	.0000010	.0000030	.0000088	.0000244	.0000642	.0001597
86		.0000001	.0000004	.0000013	.0000039	.0000113	.0000309	.0000798
87			.0000002	.0000005	.0000017	.0000051	.0000144	.0000387
88			.0000001	.0000002	.0000007	.0000022	.0000065	.0000182
89				.0000001	.0000003	.0000009	.0000028	.0000083
90					.0000001	.0000004	.0000012	.0000036
91						.0000001	.0000005	.0000015
92						.0000001	.0000002	.0000006
93							.0000001	.0000003
94								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	.9999999	1.0000000
37	.9999998	.9999999
38	.9999995	.9999998
39	.9999987	.9999996
40	.9999969	.9999990
41	.9999928	.9999975
42	.9999840	.9999942
43	.9999653	.9999871
44	.9999274	.9999718
45	.9998528	.9999407
46	.9997112	.9998793
47	.9994508	.9997614
48	.9989877	.9995434
49	.9981905	.9991528
50	.9968619	.9984753
51	.9947173	.9973371
52	.9913640	.9954848
53	.9862835	.9925637
54	.9788234	.9880995
55	.9682048	.9814857
56	.9535508	.9719861
57	.9339403	.9587544
58	.9084877	.9408799
59	.8764440	.9174583
60	.8373079	.8876850
61	.7909329	.8509647
62	.7376113	.8070206
63	.6781178	.7559888
64	.6136988	.6984768
65	.5460037	.6355730
66	.4769608	.5687983
67	.4086153	.5000000
68	.3429500	.4312017
69	.2817155	.3644270
70	.2268928	.3015232
71	.1776079	.2440112
72	.1361027	.1929794
73	.1017636	.1490353
74	.0741946	.1127180
75	.0527180	.0835417

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 133

c \ p	.49	.50
76	.0364856	.0591201
77	.0245835	.0412456
78	.0161194	.0280139
79	.0102792	.0185143
80	.0063734	.0119005
81	.0038403	.0074363
82	.0022479	.0045152
83	.0012777	.0026629
84	.0007049	.0015247
85	.0003773	.0008472
86	.0001959	.0004566
87	.0000986	.0002386
88	.0000481	.0001208
89	.0000227	.0000593
90	.0000104	.0000282
91	.0000046	.0000129
92	.0000020	.0000058
93	.0000008	.0000025
94	.0000003	.0000010
95	.0000001	.0000004
96		.0000002
97		.0000001

$$P(c,n,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 134

x \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.7399145	.9332741	.9831184	.9957894	.9989649	.9997493	.9999402	.9999860
2	.3878797	.7507994	.9131557	.9722601	.9916651	.9976051	.9993370	.9998233
3	.1514118	.5031550	.7692633	.9071399	.9661156	.9885038	.9963180	.9988758
4	.0463150	.2807805	.5734510	.7877162	.9069483	.9629426	.9863194	.9952546
5	.0115401	.1321526	.3751153	.6247526	.8049627	.9095087	.9616723	.9849420
6	.0024174	.0532889	.2156288	.4462086	.6654033	.8208313	.9134381	.9616266
7	.0004345	.0186854	.1095786	.3900547	.5074809	.6991357	.8353819	.9180369
8	.0000682	.0057721	.0496032	.1695565	.3554955	.5570958	.7277496	.8487265
9	.0000095	.0015885	.0201565	.0898519	.2285076	.4131670	.5995795	.7530481
10	.0000012	.0003932	.0074064	.0433576	.1349376	.2845499	.4643078	.6365700
11	.0000001	.0000882	.0024772	.0191418	.0733784	.1819298	.3370361	.5099634
12		.0000181	.0007587	.0077677	.0368552	.1080910	.2290479	.3858589
13		.0000034	.0002139	.0029100	.0171519	.0597816	.1457345	.2752440
14		.0000006	.0000568	.0010105	.0074200	.0308434	.0868845	.1849763
15		.0000001	.0000135	.0003265	.0029930	.0148790	.0486004	.1171354
16			.0000030	.0000985	.0011290	.0067269	.0255475	.0699417
17			.0000006	.0000278	.0003994	.0028569	.0126423	.0391197
18			.0000001	.0000074	.0001328	.0011422	.0058999	.0209978
19				.0000018	.0000416	.0004308	.0026012	.0105845
20				.0000004	.0000123	.0001536	.0010853	.0050565
21				.0000001	.0000034	.0000519	.0004393	.0023925
22					.0000009	.0000166	.0001612	.0009877
23					.0000002	.0000051	.0000576	.0004050
24					.0000001	.0000015	.0000196	.0001582
25						.0000004	.0000063	.0000590
26						.0000001	.0000020	.0000210
27							.0000006	.0000071
28							.0000002	.0000023
29								.0000007
30								.0000002
31								.0000001

x \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999960	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999537	.9999883	.9999971	.9999993	.9999998	1.0000000	1.0000000	1.0000000
3	.9996707	.9999070	.9999745	.9999933	.9999983	.9999996	.9999999	1.0000000
4	.9984389	.9995097	.9998522	.9999571	.9999880	.9999967	.9999991	.9999998
5	.9944492	.9980638	.9993569	.9997957	.9999377	.9999817	.9999948	.9999986
6	.9841899	.9938870	.9977653	.9992232	.9997421	.9999179	.9999749	.9999926
7	.9623749	.9839090	.9935359	.9975449	.9991139	.9996948	.9998994	.9999681
8	.9229229	.9636362	.9839773	.9933600	.9973973	.9990306	.9996556	.9998829
9	.8609812	.9278773	.9658226	.9843007	.9933353	.9973140	.9989727	.9996253
10	.7752157	.8722524	.9327707	.9670057	.9848071	.9934019	.9972856	.9989383
11	.6691870	.7949955	.8826342	.9375256	.9686944	.9854411	.9935641	.9973027
12	.5509771	.6982293	.8127812	.8922090	.9420961	.9708324	.9861607	.9937906
13	.4311434	.5860334	.7243876	.8286687	.9010485	.9464562	.9727694	.9869336
14	.3199200	.4731078	.6216442	.7470109	.8434875	.9092159	.9505920	.9746765
15	.2248475	.3627524	.5119986	.6522785	.7691497	.8560193	.9167667	.9544981
16	.1496232	.2646587	.4035851	.5480613	.6802861	.7885830	.8690134	.9237500
17	.0942936	.1835951	.3039268	.4423638	.5815274	.7059648	.8063371	.8801903
18	.0563089	.1210755	.2184301	.3423185	.4790963	.6126097	.7295641	.8225988
19	.0318902	.0759224	.1497446	.2536421	.3796085	.5138270	.6415010	.7518949
20	.0171458	.0452923	.0979157	.1798157	.2888477	.4156488	.5466219	.6683752
21	.0087609	.0257230	.0610822	.1219291	.2108665	.3237495	.4503474	.5775583
22	.0042591	.0139194	.0363689	.0790780	.1476108	.2425361	.3581181	.4836524
23	.0019723	.0071829	.0206801	.0490646	.0990618	.1746293	.2745199	.3917791
24	.0008709	.0035381	.0112377	.0291347	.0637359	.1207983	.2026811	.3065633
25	.0003671	.0016650	.0058402	.0165653	.0393224	.0802686	.1440479	.2314923
26	.0001479	.0007493	.0029049	.0090236	.0232712	.0512379	.0985209	.1685756
27	.0000570	.0003228	.0013840	.0047122	.0132162	.0314254	.0648392	.1183344
28	.0000210	.0001332	.0006320	.0023605	.0072063	.0185243	.0410639	.0900554
29	.0000074	.0000527	.0002769	.0011351	.0037745	.0104986	.0250305	.0521925
30	.0000025	.0000200	.0001165	.0005242	.0019052	.0057230	.0146885	.0329737
31	.0000008	.0000073	.0000471	.0002327	.0009199	.0030021	.0083008	.0198611
32	.0000003	.0000026	.0000183	.0000994	.0004285	.0015151	.0045191	.0115970
33	.0000001	.0000009	.0000068	.0000408	.0001922	.0007375	.0023710	.0065303
34		.0000003	.0000025	.0000161	.0000830	.0003457	.0011994	.0035473
35		.0000001	.0000009	.0000062	.0000346	.0001562	.0005852	.0018595
36			.0000003	.0000023	.0000139	.0000681	.0002755	.0009409
37			.0000001	.0000008	.0000054	.0000286	.0001252	.0004597
38				.0000003	.0000020	.0000116	.0000549	.0002170
39				.0000001	.0000007	.0000046	.0000233	.0000990
40					.0000003	.0000017	.0000095	.0000436
41					.0000001	.0000006	.0000038	.0000186
42						.0000002	.0000014	.0000077
43						.0000001	.0000005	.0000031
44							.0000002	.0000012
45							.0000001	.0000004
46								.0000002
47								.0000001

x \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999979	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999903	.9999972	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000
8	.9999618	.9999880	.9999964	.9999990	.9999997	.9999999	1.0000000	1.0000000
9	.9998693	.9999563	.9999860	.9999957	.9999987	.9999996	.9999999	1.0000000
10	.9996040	.9998588	.9999517	.9999842	.9999950	.9999985	.9999996	.9999999
11	.9989247	.9995918	.9998514	.9999483	.9999827	.9999945	.9999983	.9999995

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 134

x	.17	.18	.19	.20	.21	.22	.23	.24
12	.99735640	.99892900	.99958600	.99984700	.99994590	.99998160	.99999400	.99999810
13	.99406390	.99743900	.99894800	.99958760	.99984550	.99994450	.99998090	.99999370
14	.98773510	.99436960	.99754350	.99891790	.99959500	.99984640	.99994420	.99998060
15	.97653170	.98854630	.99469610	.99766410	.99901950	.99960710	.99984940	.99994470
16	.95817440	.97832000	.98935290	.99503420	.99779580	.99906710	.99962290	.99985420
17	.93020990	.96162430	.98003110	.99014420	.99537630	.99793430	.99911970	.99964160
18	.89045310	.93616550	.96485360	.98165360	.99091220	.99571660	.99807630	.99917550
19	.83752390	.89988870	.94171250	.96786960	.98319880	.99165090	.99605060	.99821890
20	.77133720	.85124450	.90857230	.94682310	.97068050	.98464970	.99235640	.99637460
21	.69338850	.78984610	.86387380	.91656890	.95154670	.97329530	.98601140	.99302570
22	.60671910	.71668140	.80695620	.87550950	.92393580	.95591010	.97572300	.98728470
23	.51554060	.63411880	.73838040	.82278550	.88622360	.93072300	.95993800	.97797280
24	.42460100	.54600960	.66005010	.75859980	.83743800	.89613130	.93697810	.96365330
25	.33845490	.45648640	.57507140	.68438510	.77744300	.85100570	.90525910	.94273940
26	.26088960	.37062010	.48736510	.60274900	.70727170	.79500380	.86357130	.91368000
27	.19415680	.29044850	.40111630	.51718800	.63907210	.72878460	.81136780	.87528060
28	.13954150	.22058060	.32019150	.43162700	.54592310	.65407570	.74899480	.82661320
29	.09679400	.16197200	.24765180	.34988570	.46145840	.57355160	.67779820	.76796990
30	.06479110	.11494710	.18545720	.27519100	.37939020	.49053560	.60006540	.70027990
31	.04184930	.07881820	.13439620	.20983320	.30303560	.40858380	.51079930	.62354640
32	.02608510	.05221180	.09421450	.15501700	.23494310	.33103810	.43736300	.54620380
33	.01569240	.03341300	.06387660	.11090700	.17668200	.26063800	.35906640	.46563920
34	.00911130	.02065810	.04188080	.07682210	.12801870	.19926360	.28677850	.38700210
35	.00510990	.01234100	.02655400	.05150900	.09101270	.14784060	.22263600	.31323410
36	.00276730	.00712460	.01620210	.03342820	.06230360	.10640070	.16789400	.24667650
37	.00144780	.00397570	.00965610	.02099770	.04131730	.07425830	.12292800	.18887650
38	.00073200	.00214490	.00553940	.01276670	.02654130	.05024610	.08773370	.14053160
39	.00035770	.00111900	.00307450	.00751400	.01651510	.03295000	.06022860	.10156120
40	.00016910	.00056470	.00168130	.00428150	.00995460	.02095520	.04028450	.07126830
41	.00007730	.00027570	.00085840	.00236230	.00581270	.01293140	.02613500	.04854870
42	.00003420	.00013030	.00043200	.00126220	.00328850	.00771560	.01644640	.03209960
43	.00001460	.00005960	.00021050	.00066530	.00180270	.00446840	.01003780	.02059750
44	.00000610	.00002640	.00009930	.00033750	.00095770	.00250890	.00584210	.01282630
45	.00000240	.00001130	.00004540	.00015910	.00049310	.00136580	.00341190	.00775080
46	.00000090	.00000470	.00002010	.00007490	.00024620	.00072100	.00190040	.00454520
47	.00000040	.00000190	.00000860	.00003420	.00011910	.00036910	.00102690	.00258670
48	.00000010	.00000070	.00000360	.00001510	.00005590	.00018330	.00053830	.00142860
49		.00000030	.00000140	.00000650	.00002540	.00008830	.00027380	.00076580
50		.00000010	.00000060	.00000270	.00001120	.00004130	.00013520	.00039850
51			.00000020	.00000110	.00000480	.00001670	.00006470	.00020120
52			.00000010	.00000040	.00000200	.00000820	.00003010	.00009870
53				.00000020	.00000080	.00000350	.00001360	.00004700
54				.00000010	.00000030	.00000150	.00000600	.00002170
55					.00000010	.00000060	.00000250	.00000970
56						.00000020	.00000100	.00000420
57						.00000010	.00000040	.00000180
59							.00000010	.00000030
58							.00000020	.00000070
60								.00000010

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	.99999994	.99999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	.99999980	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
14	.99999935	.99999979	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000
15	.99998806	.99999934	.99999979	.99999993	.99999998	.99999999	1.00000000	1.00000000
16	.99994460	.99998808	.99999935	.99999979	.99999993	.99999998	.99999999	1.00000000
17	.99986604	.99994480	.99998814	.99999936	.99999979	.99999993	.99999998	.99999999
18	.99966624	.99986677	.99995504	.99998822	.99999939	.99999980	.99999994	.99999998
19	.99923332	.99968450	.99987758	.99995532	.99998811	.99999941	.99999981	.99999994
20	.99835990	.99929150	.99970740	.99938440	.99995630	.99998410	.99999450	.99999820
21	.99668610	.99849750	.99934930	.99873060	.99983330	.99995950	.99998530	.99999490
22	.99365730	.99690310	.99863030	.99740590	.99957750	.99990220	.99996280	.99998650
23	.98847150	.99425020	.99726440	.99487570	.99946050	.99977600	.99991100	.99996620
24	.98005410	.98957420	.99480420	.99075900	.99887760	.99951280	.99979770	.99991960
25	.96707720	.98197580	.99059580	.98453970	.99771650	.99893090	.99956220	.99981840
26	.94804440	.97022920	.98374710	.97553950	.99579750	.99800680	.99909670	.99960870
27	.92144730	.95292660	.97312760	.96353760	.99240890	.99623860	.99822000	.99919510
28	.88598450	.92860950	.95741650	.94757890	.98687250	.99320750	.99664430	.99841640
29	.84081110	.89595980	.93521050	.92623090	.97823090	.98824330	.99393920	.99701620
30	.78577360	.85402950	.90518980	.89824130	.96532950	.98046690	.98949660	.99460760
31	.72156240	.80246650	.86632740	.86277520	.94688580	.96860220	.98251130	.99064060
32	.64975630	.74116870	.81810580	.81776210	.92161270	.95203080	.97199250	.98437760
33	.57271440	.67239520	.76069810	.76327450	.88838610	.92885540	.95675680	.97409110
34	.49333790	.59830600	.69506890	.70106350	.84643810	.89824840	.93561320	.96109260
35	.41473960	.52039620	.62296140	.63611250	.79554100	.85923150	.90739470	.94180320
36	.33988410	.44218550	.54676160	.56466690	.73614390	.81145560	.87117230	.91586800
37	.27127650	.36661710	.46835710	.49239110	.66942680	.75514840	.82641920	.88330480
38	.21068520	.29629270	.39333080	.41958170	.59724940	.69123300	.77316420	.84047000
39	.15913800	.23322080	.32164700	.34993150	.52199550	.62130850	.71208960	.79021820
40	.11684290	.17867210	.25638370	.28472710	.44633390	.54754310	.64454670	.73200700
41	.08335920	.13315340	.19905480	.22800760	.37293690	.47246040	.57247640	.66694780
42	.05777000	.09648640	.15044120	.18202050	.30400430	.39868570	.49824070	.59675420
43	.03888280	.06795980	.11062750	.14066490	.24204080	.32867510	.42430980	.52361150
44	.02541280	.04651550	.07912150	.10575260	.18771650	.26447930	.35340020	.44996860

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 134

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
45	.0161267	.0309329	.0550211	.0912511	.1418259	.2075785	.2874384	.3782947
46	.0099360	.0199029	.0371935	.0644166	.1043379	.1580064	.2281684	.3180370
47	.0059434	.0125392	.0244360	.0442259	.0747185	.1183649	.1766480	.2494176
48	.0034516	.0076424	.0156013	.0295244	.0520562	.0859133	.1333091	.1953009
49	.0019461	.0045240	.0096787	.0191619	.0352834	.0607055	.0980178	.1491426
50	.0010654	.0026010	.0058341	.0120891	.0232594	.0417444	.0701898	.1110190
51	.0005663	.0014524	.0034167	.0074132	.0149103	.0279300	.0489356	.0805202
52	.0002923	.0007877	.0019440	.0044181	.0092936	.0181786	.0332079	.0568809
53	.0001465	.0004149	.0010747	.0025590	.0056317	.0115080	.0219293	.0391247
54	.0000713	.0002123	.0005778	.0014405	.0033176	.0070849	.0140895	.0261968
55	.0000337	.0001055	.0003012	.0007880	.0019998	.0042415	.0088062	.0170712
56	.0000155	.0000509	.0001527	.0004189	.0010575	.0024690	.0053336	.0108248
57	.0000069	.0000239	.0000752	.0002164	.0005788	.0013973	.0031653	.0066781
58	.0000030	.0000109	.0000360	.0001096	.0003099	.0007698	.0018200	.0040077
59	.0000013	.0000048	.0000167	.0000530	.0001538	.0004113	.0010176	.0023394
60	.0000005	.0000021	.0000076	.0000251	.0000764	.0002138	.0005552	.0013381
61	.0000002	.0000009	.0000033	.0000116	.0000369	.0001081	.0002924	.0007333
62	.0000001	.0000004	.0000014	.0000052	.0000173	.0000531	.0001502	.0003936
63		.0000001	.0000006	.0000023	.0000079	.0000254	.0000751	.0002055
64		.0000001	.0000002	.0000010	.0000035	.0000118	.0000364	.0001043
65			.0000001	.0000004	.0000015	.0000053	.0000172	.0000515
66				.0000002	.0000006	.0000023	.0000079	.0000247
67				.0000001	.0000003	.0000010	.0000035	.0000115
68					.0000001	.0000004	.0000015	.0000052
69						.0000002	.0000006	.0000023
70						.0000001	.0000003	.0000010
71							.0000001	.0000004
72								.0000002
73								.0000001

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999953	.9999984	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999877	.9999957	.9999986	.9999995	.9999999	1.0000000	1.0000000	1.0000000
24	.9999694	.9999889	.9999961	.9999987	.9999996	.9999999	1.0000000	1.0000000
25	.9999279	.9999726	.9999900	.9999965	.9999988	.9999998	.9999999	1.0000000
26	.9998379	.9999358	.9999756	.9999912	.9999969	.9999990	.9999997	.9999999
27	.9996520	.9998561	.9999431	.9999785	.9999922	.9999973	.9999991	.9999997
28	.9992858	.9996921	.9998731	.9999500	.9999811	.9999932	.9999977	.9999992
29	.9985966	.9993691	.9997289	.9998886	.9999562	.9999836	.9999941	.9999980
30	.9973557	.9987611	.9994482	.9997626	.9999028	.9999658	.9999889	.9999949
31	.9952166	.9976646	.9989106	.9993143	.9997031	.9999157	.9999672	.9999878
32	.9916819	.9957698	.9979448	.9990459	.9995768	.9998206	.9999273	.9999714
33	.9860782	.9926270	.9962708	.9981978	.9991679	.9996329	.9998453	.9999377
34	.9775472	.9876248	.9934848	.9967234	.9984257	.9992774	.9996831	.9998673
35	.9650653	.9799688	.9890285	.9942595	.9971308	.9986300	.9993751	.9997278
36	.9475002	.9687002	.9821727	.9900998	.9949579	.9974964	.9988126	.9994621
37	.9237086	.9527363	.9720207	.9841746	.9914485	.9955857	.9978235	.9989751
38	.8926710	.9309513	.9575420	.9759490	.9859805	.9924840	.9961485	.9981151
39	.8536486	.9023112	.9376412	.9619458	.9778056	.9876513	.9934150	.9966515
40	.8063378	.8659899	.9112637	.9438039	.9659744	.9803101	.9891131	.9942498
41	.7509948	.8215513	.8775310	.9195652	.9494717	.9696531	.9825808	.9904471
42	.6884996	.7690657	.8358873	.8883075	.9272509	.9546779	.9730058	.9845149
43	.6203413	.7091959	.7862351	.8497348	.8983538	.9343544	.9594504	.9760549
44	.5485160	.6432083	.7290329	.8025198	.8630430	.9077037	.9409081	.9638168
45	.4753507	.5729032	.6653305	.7480109	.8179333	.8739213	.9163900	.9469410
46	.4038774	.5004678	.5967280	.6866884	.7661328	.8325107	.8850389	.9244447
47	.3345949	.4282709	.5252574	.6199501	.7072661	.7834045	.8462579	.8954251
48	.2712562	.3586342	.4532020	.5496620	.6425346	.7270521	.7998343	.8592020
49	.2147121	.2936136	.3828786	.4780011	.5736290	.6644509	.7460381	.8154325
50	.1658325	.2348256	.3164192	.4072542	.5026029	.5971103	.6856726	.7642192
51	.1244904	.1833416	.2555833	.3396025	.4316895	.5269458	.6200628	.7061774
52	.0917028	.1396582	.2016292	.2769251	.3630935	.4561155	.5509720	.6424453
53	.0656005	.1037390	.1552575	.2206512	.2987900	.3860231	.4804661	.5746778
54	.0457096	.0751105	.1166356	.1716769	.2403603	.3211156	.4107234	.5046776
55	.0310140	.0529884	.0854229	.1303548	.1888865	.2607070	.3438390	.4347275
56	.0204859	.0364121	.0609844	.0965458	.1449147	.2060531	.2816395	.3669970
57	.0131706	.0243656	.0424206	.0697175	.1084034	.1602892	.2255398	.3031041
58	.0082401	.0158735	.0287420	.0490668	.0792044	.1212357	.1764586	.2449071
59	.0050161	.0100656	.0189638	.0336455	.0563758	.0894586	.1347993	.1933993
60	.0029707	.0062117	.0121815	.0224716	.0391054	.0643704	.1004902	.1491667
61	.0017113	.0037299	.0076165	.0146149	.0264267	.0451497	.0730711	.1123062
62	.0009589	.0021790	.0046346	.0092537	.0171936	.0306586	.0518049	.0824955
63	.0005225	.0012383	.0027440	.0057030	.0111472	.0205456	.0357961	.0590957

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 128

x	.33	.34	.35	.36	.37	.38	.39	.40
64	.0002769	.0006844	.0015806	.0034204	.0069546	.0133217	.0240989	.0412673
65	.0001426	.0003679	.0008857	.0019960	.0042230	.0084099	.0150024	.0260817
66	.0000715	.0001923	.0004827	.0011331	.0024953	.0051679	.0100900	.0186151
67	.0000348	.0000977	.0002558	.0006257	.0014345	.0030905	.0062719	.0120172
68	.0000165	.0000483	.0001318	.0003360	.0008022	.0017982	.0037943	.0075529
69	.0000076	.0000232	.0000660	.0001755	.0004363	.0010179	.0022336	.0046205
70	.0000034	.0000108	.0000322	.0000891	.0002308	.0005604	.0012791	.0027506
71	.0000015	.0000049	.0000152	.0000440	.0001187	.0003000	.0007125	.0015930
72	.0000006	.0000022	.0000070	.0000211	.0000593	.0001562	.0003859	.0008773
73	.0000003	.0000009	.0000031	.0000098	.0000288	.0000790	.0002032	.0004915
74	.0000001	.0000004	.0000014	.0000045	.0000136	.0000389	.0001040	.0002618
75		.0000002	.0000006	.0000020	.0000062	.0000186	.0000518	.0001355
76		.0000001	.0000002	.0000008	.0000028	.0000086	.0000250	.0000682
77			.0000001	.0000003	.0000012	.0000039	.0000110	.0000333
78				.0000001	.0000005	.0000017	.0000054	.0000158
79				.0000001	.0000002	.0000007	.0000024	.0000073
80					.0000001	.0000003	.0000010	.0000033
81						.0000001	.0000004	.0000014
82							.0000002	.0000006
83							.0000001	.0000002
84								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999983	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999957	.9999985	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999896	.9999963	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000
33	.9999760	.9999912	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000
34	.9999469	.9999797	.9999926	.9999974	.9999991	.9999997	.9999999	1.0000000
35	.9998868	.9999550	.9999830	.9999938	.9999979	.9999993	.9999998	.9999999
36	.9997673	.9999039	.9999621	.9999858	.9999949	.9999983	.9999994	.9999998
37	.9995392	.9998022	.9999190	.9999683	.9999882	.9999958	.9999986	.9999995
38	.9991191	.9996070	.9998327	.9999321	.9999737	.9999903	.9999966	.9999989
39	.9983741	.9992463	.9996666	.9998593	.9999434	.9999783	.9999921	.9999972
40	.9970996	.9986034	.9993581	.9997186	.9998824	.9999531	.9999822	.9999936
41	.9949963	.9974976	.9988055	.9994560	.9997638	.9999022	.9999614	.9999855
42	.9916451	.9956617	.9978497	.9989830	.9995413	.9998028	.9999192	.9999685
43	.9864886	.9927180	.9962530	.9981601	.9991383	.9996152	.9998363	.9999337
44	.9788219	.9881572	.9936759	.9967767	.9984327	.9992734	.9996791	.9998650
45	.9678032	.9813268	.9896552	.9945287	.9973389	.9986712	.9993906	.9997338
46	.9524890	.9714344	.9835087	.9909961	.9952853	.9976453	.9988790	.9994916
47	.9318990	.9575748	.9747344	.9856259	.9921928	.9959543	.9980012	.9990391
48	.9051090	.9387834	.9628278	.9777256	.9874553	.9932573	.9965437	.9983116
49	.8713661	.9141197	.9451274	.9664748	.9804298	.9890932	.9942010	.9970609
50	.8302116	.8827737	.9224859	.9509599	.9703412	.9828674	.9905549	.9950346
51	.7815935	.8441857	.8934493	.9302363	.9563090	.9738516	.9850582	.9918550
52	.7259469	.7981620	.8573707	.9034176	.9373992	.9613021	.9770297	.9870204
53	.6642242	.7449660	.8139279	.8697837	.9127041	.9440026	.9656658	.9798982
54	.5978628	.6853672	.7632231	.8288972	.8814434	.9213344	.9500742	.9697260
55	.5286896	.6206305	.7058466	.7807096	.8430779	.8923694	.9293345	.9556414
56	.4587702	.5524440	.6428880	.7256380	.7974199	.8564802	.9025827	.9367307
57	.3902264	.4827879	.5758860	.6645956	.7447205	.8133514	.8691160	.9121052
58	.3250455	.4137639	.5067186	.5996636	.6857173	.7630765	.8285039	.8809992
59	.2649183	.3474072	.4374467	.5305026	.6216276	.7062203	.7806916	.8428800
60	.2110844	.2855106	.3701316	.4612127	.5540816	.6438319	.7360752	.7975545
61	.1643270	.2294834	.3066546	.3931602	.4850005	.5773999	.6955334	.7452557
62	.1249100	.1802657	.2485633	.3282952	.4164341	.5087494	.6004037	.6866917
63	.0926588	.1383020	.1969648	.2682876	.3503812	.4398939	.5324000	.6230415
64	.0670452	.1035734	.1524790	.2144032	.2886174	.3728599	.4634798	.5558939
65	.0472991	.0756745	.1152489	.1674347	.2325563	.3095113	.3956772	.4871323
66	.0325218	.0539178	.0850026	.1276922	.1831597	.2513966	.3309851	.4187776
67	.0217860	.0374468	.0611481	.0950466	.1409073	.1996412	.2708935	.3528128
68	.0142143	.0253415	.0428839	.0690136	.1058212	.1548951	.2166633	.2910135
69	.0090298	.0167045	.0293084	.0488599	.0775365	.1173389	.1696543	.2348069
70	.0055837	.0107221	.0195124	.0337133	.0554007	.0867375	.1296099	.1851796
71	.0033600	.0066994	.0126503	.0226625	.0385812	.0625315	.0966354	.1426420

$$F(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 134

r/p	.41	.42	.43	.44	.45	.46	.47	.48
72	.0019671	.0040736	.0079841	.0148358	.0261830	.0439446	.0702768	.1072477
73	.0011201	.0024099	.0049039	.0094549	.0173005	.0300905	.0498241	.0786600
74	.0006203	.0013866	.0029304	.0058642	.0111302	.0200671	.0344197	.0562478
75	.0003339	.0007759	.0017032	.0035385	.0069686	.0130287	.0231591	.0391939
76	.0001747	.0004220	.0009625	.0020766	.0042447	.0082322	.0151704	.0266003
77	.0000888	.0002231	.0005288	.0011850	.0025145	.0050602	.0096707	.0175758
78	.0000439	.0001146	.0002823	.0006572	.0014482	.0030249	.0059971	.0113010
79	.0000211	.0000572	.0001464	.0003548	.0008107	.0017579	.0036164	.0070643
80	.0000098	.0000277	.0000738	.0001855	.0004409	.0009928	.0021199	.0042986
81	.0000044	.0000130	.0000361	.0000943	.0002329	.0005447	.0012076	.0025410
82	.0000019	.0000060	.0000171	.0000466	.0001195	.0002903	.0006682	.0014594
83	.0000008	.0000026	.0000079	.0000223	.0000595	.0001508	.0003590	.0008141
84	.0000003	.0000011	.0000035	.0000104	.0000288	.0000754	.0001872	.0004409
85	.0000001	.0000005	.0000015	.0000047	.0000135	.0000367	.0000948	.0002317
86	.0000001	.0000002	.0000006	.0000020	.0000061	.0000174	.0000465	.0001182
87		.0000001	.0000003	.0000009	.0000027	.0000079	.0000221	.0000594
88			.0000001	.0000004	.0000012	.0000035	.0000102	.0000280
89				.0000001	.0000005	.0000015	.0000046	.0000130
90				.0000001	.0000002	.0000006	.0000020	.0000058
91					.0000001	.0000003	.0000008	.0000025
92						.0000001	.0000003	.0000011
93							.0000001	.0000004
94								.0000002
95								.0000001

r/p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	.9999999	1.0000000
37	.9999999	1.0000000
38	.9999994	.9999999
39	.9999991	.9999997
40	.9999978	.9999993
41	.9999948	.9999982
42	.9999883	.9999959
43	.9999745	.9999906
44	.9999460	.9999794
45	.9998894	.9999563
46	.9997806	.9999099
47	.9995784	.9998203
48	.9992146	.9996524
49	.9985811	.9993481
50	.9975129	.9988141
51	.9957681	.9979062
52	.9930071	.9964109
53	.9887729	.9940242
54	.9824738	.9903316
55	.9734079	.9847926
56	.9607312	.9767359
57	.9435494	.9653708
58	.9209594	.9498171
59	.8921454	.9291691
60	.8564846	.9025717
61	.8136565	.8693849
62	.7637389	.8289926
63	.7078696	.7815047
64	.6458641	.7272328
65	.5791743	.6670249
66	.5107918	.6021856
67	.4421046	.5343991
68	.3751260	.4656009
69	.3117804	.3978144
70	.2534499	.3329751

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 134

c/p	.49	.50
71	.2014635	.2727678
72	.1564408	.2184953
73	.1185898	.1710074
74	.0877035	.1306751
75	.0632416	.0974283
76	.0444395	.0708309
77	.0304155	.0501089
78	.0202663	.0346298
79	.0131404	.0232641
80	.0082872	.0152074
81	.0050815	.0096684
82	.0030208	.0059758
83	.0017531	.0035891
84	.0009855	.0020938
85	.0005378	.0011859
86	.0002848	.0006519
87	.0001462	.0003476
88	.0000728	.0001797
89	.0000351	.0000901
90	.0000164	.0000437
91	.0000074	.0000206
92	.0000033	.0000094
93	.0000014	.0000041
94	.0000006	.0000018
95	.0000002	.0000007
96	.0000001	.0000003
97		.0000001

$$F(r;n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 135

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7425154	.9346087	.9836349	.9959578	.9990167	.9997644	.9999444	.9999871
2	.3914000	.7544489	.9152546	.9732205	.9920301	.9977338	.9993793	.9998354
3	.1537765	.5081079	.7735801	.9097455	.9673931	.9890499	.9965293	.9989315
4	.0473359	.2852280	.5793253	.7884931	.9099067	.9644768	.9870193	.9955443
5	.0118918	.1351252	.3810653	.6312711	.8100680	.9127148	.9633976	.9857670
6	.0025087	.0540661	.2204134	.4552704	.6723013	.8261519	.9168145	.9634918
7	.0004543	.0193774	.1127601	.2963809	.5153771	.7064374	.8400458	.9215840
8	.0000719	.0060304	.0514024	.1743764	.3630947	.5656182	.7354698	.8548713
9	.0000101	.0016722	.0210399	.0930401	.2348570	.4210028	.6085654	.7607024
10	.0000013	.0004171	.0077089	.0452173	.1396161	.2922669	.4737768	.6456888
11	.0000001	.0000943	.0026251	.0201104	.0764564	.1880870	.3459451	.5300919
12		.0000195	.0008108	.0082226	.0386814	.1125819	.2366071	.3957878
13		.0000037	.0002302	.0031043	.0181371	.0636801	.1515665	.2840938
14		.0000006	.0000605	.0010865	.0079066	.0335797	.0910040	.1921977
15		.0000001	.0000148	.0003538	.0032144	.0158360	.0512898	.1225627
16			.0000034	.0001076	.0012222	.0072161	.0271618	.0737178
17			.0000007	.0000306	.0004359	.0030891	.0135457	.0416615
18			.0000001	.0000083	.0001461	.0012451	.0063719	.0224710
19				.0000021	.0000462	.0004735	.0028321	.0114175
20				.0000005	.0000138	.0001703	.0011914	.0054987
21				.0000001	.0000039	.0000580	.0004752	.0025136
22					.0000010	.0000187	.0001800	.0010921
23					.0000003	.0000058	.0000648	.0004516
24					.0000001	.0000017	.0000222	.0001770
25						.0000005	.0000073	.0000669
26						.0000001	.0000023	.0000240
27							.0000007	.0000082
28							.0000002	.0000027
29							.0000001	.0000009
30								.0000003
31								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999970	.9999993	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999576	.9999894	.9999974	.9999994	.9999999	1.0000000	1.0000000	1.0000000
3	.9996961	.9999151	.9999771	.9999940	.9999985	.9999996	.9999999	1.0000000
4	.9985497	.9995494	.9998657	.9999615	.9999903	.9999971	.9999993	.9999998
5	.9948083	.9986084	.9994114	.9998150	.9999448	.9999838	.9999955	.9999988
6	.9851133	.9943047	.9979404	.9993919	.9997675	.9999269	.9999779	.9999936
7	.9643383	.9844068	.9940013	.9977463	.9991955	.9997260	.9999107	.9999721
8	.9264736	.9656635	.9850388	.9938622	.9976204	.9991236	.9996922	.9999066
9	.8665560	.9314538	.9678856	.9853879	.9938547	.9975843	.9990758	.9996665
10	.7889346	.8778149	.9363404	.9690811	.9859144	.9939496	.9975387	.9990483
11	.6987295	.8037212	.8841492	.9410632	.9709648	.9865556	.9941223	.9975644
12	.5616160	.7079060	.8204650	.8976469	.9455802	.9728776	.9872713	.9943525
13	.4419285	.5990440	.7340219	.8364695	.9063847	.9498688	.9747781	.9880307
14	.3299301	.4845994	.6329350	.7575378	.8509704	.9144296	.9539186	.9766376
15	.2314040	.3737879	.5240596	.6637424	.7788136	.8641552	.9218405	.9577266
16	.1563953	.2744600	.4155106	.5605674	.6918383	.7981361	.8761764	.9286697
17	.0993735	.1917015	.3140892	.4550475	.5943661	.7175314	.8157386	.8671599
18	.0597276	.1277274	.2270548	.3543340	.4924123	.6256794	.7410601	.8318134
19	.0340879	.0804377	.1573000	.2642833	.3985419	.5276566	.6547105	.7627035
20	.0184728	.0483553	.1036169	.1886749	.3066466	.4299337	.5608517	.6816423
21	.0095155	.0276800	.0651339	.1288755	.2210040	.3366154	.4647886	.5920890
22	.0046643	.0150997	.0390874	.0868202	.1558340	.2539060	.3719525	.4986774
23	.0021781	.0078566	.0224059	.0566662	.1053732	.1841363	.2870597	.4064789
24	.0009700	.0039026	.0122764	.0315263	.0683283	.1283347	.8134569	.3201979
25	.0004125	.0018583	.0064339	.0180736	.0424962	.0859427	.1528429	.2435037
26	.0001676	.0008409	.0032278	.0099286	.0253579	.0553022	.1053500	.1786423
27	.0000652	.0003654	.0015513	.0052296	.0145234	.0341992	.0698815	.1263730
28	.0000243	.0001522	.0007147	.0026407	.0079876	.0203305	.0446302	.0861801
29	.0000087	.0000607	.0003160	.0012821	.0042207	.0116222	.0274355	.0566506
30	.0000030	.0000233	.0001341	.0005975	.0021438	.0063916	.0162398	.0358975
31	.0000010	.0000086	.0000547	.0002677	.0010474	.0033830	.0092590	.0219303
32	.0000003	.0000030	.0000214	.0001154	.0004924	.0017241	.0050864	.0129192
33	.0000001	.0000010	.0000081	.0000478	.0002229	.0008465	.0026933	.0073410
34		.0000003	.0000029	.0000191	.0000978	.0004005	.0013751	.0040246
35		.0000001	.0000010	.0000074	.0000409	.0001827	.0006773	.0021295
36			.0000003	.0000027	.0000166	.0000804	.0003219	.0010879
37			.0000001	.0000010	.0000065	.0000342	.0001477	.0005367
38				.0000003	.0000024	.0000140	.0000655	.0002558
39				.0000001	.0000009	.0000055	.0000280	.0001179
40					.0000003	.0000021	.0000116	.0000525
41					.0000001	.0000008	.0000046	.0000226
42						.0000003	.0000018	.0000094
43						.0000001	.0000007	.0000038
44							.0000003	.0000015
45							.0000001	.0000006
46								.0000002
47								.0000001

r	.17	.18	.19	.20	.21	.22	.83	.84
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999988	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999916	.9999976	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999667	.9999897	.9999969	.9999991	.9999998	.9999999	1.0000000	1.0000000
9	.9998850	.9999620	.9999880	.9999963	.9999989	.9999997	.9999999	1.0000000
10	.9994491	.9998763	.9999582	.9999865	.9999958	.9999987	.9999996	.9999999
11	.9980408	.9996393	.9998705	.9999554	.9999853	.9999953	.9999986	.9999996

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 155

r	.17	.18	.19	.20	.21	.22	.23	.24
12	.9976830	.9990488	.9996364	.9998673	.9999536	.9999844	.9999950	.9999985
13	.9946836	.9977078	.9990692	.9996395	.9998665	.9999587	.9999859	.9999948
14	.9881110	.9942881	.9970104	.9991008	.9996476	.9998680	.9999586	.9999837
15	.9784363	.9885945	.9952371	.9979871	.9991404	.9996597	.9998718	.9999533
16	.9641951	.9801607	.9903481	.9955602	.9980588	.9991059	.9996750	.9998789
17	.9349638	.9646295	.9818683	.9911322	.9958844	.9981835	.9993354	.9996926
18	.8972117	.9407645	.9677373	.9833557	.9918496	.9962045	.9983163	.9992874
19	.8465818	.9064288	.9461093	.9706874	.9841886	.9925454	.9965168	.9984485
20	.7885089	.8600005	.9148689	.9510384	.9733094	.9861900	.9932060	.9968173
21	.7066397	.8008978	.8723665	.9236197	.9555548	.9757933	.9874708	.9938894
22	.6214589	.7298510	.8177706	.8877814	.9297348	.9597548	.9780693	.9886686
23	.5310410	.6490378	.7514098	.8433303	.8941537	.9360648	.9635606	.9808077
24	.4400607	.5618818	.6742329	.7914370	.8476057	.9037416	.9422569	.9670900
25	.3530997	.4726006	.5910174	.6992881	.7900480	.8609334	.9125540	.9477587
26	.2740176	.3855841	.5048893	.6199768	.7280077	.8073240	.8731595	.9206548
27	.2054695	.3047714	.4175036	.5343008	.6645494	.7433588	.8233746	.8844417
28	.1488861	.2331568	.3355672	.4447398	.5633843	.6705117	.7633406	.8388761
29	.1040611	.1725916	.2614343	.3662339	.4791960	.5919669	.6941734	.7880443
30	.0708316	.1234116	.1978742	.2991300	.3966245	.5087991	.6179440	.7168855
31	.0457494	.0853214	.1440978	.2229048	.3190700	.4266132	.5374905	.6434804
32	.0287650	.0570010	.1018490	.1659803	.2493485	.3480988	.4560933	.5658864
33	.0174592	.0367968	.0696408	.1197290	.1869166	.2761261	.3770746	.4849747
34	.0102318	.0229540	.0460600	.0836391	.1360658	.2127660	.3034047	.4058780
35	.0057904	.0138360	.0294661	.0568716	.0989507	.1591836	.2373888	.3309384
36	.0031655	.0080635	.0182338	.0370444	.0683307	.1155175	.1804853	.2626303
37	.0016721	.0045425	.0109150	.0234838	.0457245	.0813296	.1332710	.2027285
38	.0008537	.0024744	.0063816	.0144189	.0296448	.0555888	.0955360	.1521344
39	.0004314	.0013037	.0035498	.0085645	.0186206	.0367614	.0664674	.1109141
40	.0002011	.0006645	.0019217	.0049880	.0113353	.0235968	.0448716	.0785386
41	.0000929	.0003277	.0010090	.0027461	.0066085	.0146036	.0293900	.0540014
42	.0000415	.0001565	.0005130	.0014882	.0038106	.0088594	.0186750	.0360473
43	.0000179	.0000723	.0002526	.0007751	.0021147	.0051888	.0115116	.0233980
44	.0000075	.0000324	.0001205	.0003927	.0011358	.0029400	.0068841	.0146914
45	.0000030	.0000140	.0000557	.0001928	.0005907	.0016173	.0039939	.0089689
46	.0000012	.0000059	.0000249	.0000918	.0002980	.0008628	.0022481	.0053146
47	.0000005	.0000024	.0000108	.0000423	.0001458	.0004465	.0012278	.0030537
48	.0000002	.0000009	.0000046	.0000189	.0000692	.0002242	.0006507	.0017066
49	.0000001	.0000004	.0000019	.0000082	.0000318	.0001092	.0003347	.0009249
50		.0000001	.0000007	.0000035	.0000143	.0000516	.0001670	.0004866
51			.0000003	.0000014	.0000062	.0000237	.0000809	.0002486
52			.0000001	.0000006	.0000026	.0000105	.0000381	.0001833
53				.0000002	.0000011	.0000046	.0000174	.0000594
54				.0000001	.0000004	.0000019	.0000077	.0000278
55					.0000002	.0000008	.0000033	.0000126
56					.0000001	.0000003	.0000014	.0000056
57						.0000001	.0000006	.0000024
58							.0000003	.0000010
59							.0000001	.0000004
60								.0000002
61								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999984	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999946	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999838	.9999946	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000
16	.9999547	.9999841	.9999947	.9999985	.9999995	.9999998	1.0000000	1.0000000
17	.9998816	.9999565	.9999847	.9999948	.9999983	.9999995	.9999999	1.0000000
18	.9997119	.9998886	.9999588	.9999854	.9999950	.9999984	.9999995	.9999998
19	.9993408	.9997328	.9998959	.9999613	.9999868	.9999953	.9999985	.9999998
20	.9985783	.9993937	.9997529	.9999037	.9999640	.9999871	.9999956	.9999986
21	.9971046	.9987040	.9994460	.9997737	.9999115	.9999669	.9999881	.9999959
22	.9944145	.9973749	.9988344	.9994968	.9997941	.9999194	.9999698	.9999892
23	.9897680	.9949607	.9976333	.9989389	.9995455	.9998139	.9999271	.9999727
24	.9821584	.9907900	.9954684	.9978729	.9990467	.9995917	.9998388	.9999348
25	.9703814	.9839514	.9917381	.9959383	.9980959	.9991474	.9996553	.9998508
26	.9528086	.9732833	.9855962	.9925986	.9963714	.9983020	.9992410	.9996780
27	.9280966	.9574853	.9759948	.9871081	.9933916	.9967691	.9984918	.9993874
28	.8948508	.9349320	.9616585	.9784739	.9884780	.9941169	.9971388	.9988656
29	.8511049	.9044487	.9412061	.9655315	.9807370	.9897336	.9947778	.9979448
30	.7953331	.8649314	.9138954	.9469608	.9690709	.9827996	.9908739	.9959783
31	.7276158	.8158728	.8768203	.9214434	.9523345	.9723016	.9844768	.9919100
32	.6477079	.7574908	.8311356	.8878318	.9289419	.9570628	.9738445	.9843818
33	.5591749	.6908835	.7761982	.8453504	.8980218	.9358360	.9564767	.9779868
34	.4713081	.6177141	.7137888	.7937863	.8586031	.9074488	.9481677	.9655081
35	.3943098	.5406897	.6484304	.7336282	.8103018	.8709366	.9161485	.9479780
36	.3385980	.4685803	.5673386	.6661175	.7533691	.8257884	.8884018	.9041473
37	.2984209	.3962849	.4901833	.5931092	.6887748	.7720405	.8408987	.8530480
38	.2658306	.3145770	.4138309	.5173043	.6181009	.7104069	.7896733	.8038577
39	.1780348	.2496195	.3410016	.4411976	.5436191	.6428856	.7310887	.8068990
40	.1274166	.1980547	.2740048	.3675844	.4682758	.5696787	.6654850	.7506346
41	.0917301	.1449883	.2145336	.2986787	.3948280	.4949850	.5946189	.6877666
42	.0641673	.1060199	.1635669	.2369691	.3241368	.4208181	.5219538	.6198165

$$I(c,n,p) = \sum_{i=c}^{n} \binom{n}{i} p^i (1-p)^{n-i}$$

N	.25	.26	.27	.28	.29	.30	.31	.32
43	.0436046	.0753767	.1313772	.1830849	.2600602	.3496783	.4472838	.5470178
44	.0267803	.0509510	.0976861	.1377636	.2034705	.2837380	.3734068	.4733343
45	.0164483	.0340844	.0715282	.1069118	.1581348	.2246487	.3078866	.4018304
46	.0114837	.0238299	.0480070	.0719303	.1152694	.1734380	.2465481	.3324824
47	.0069416	.0144746	.0298605	.0498793	.0833039	.1304973	.1928193	.2699718
48	.0040746	.0089156	.0179866	.0336407	.0586265	.0956488	.1467448	.2186163
49	.0033285	.0053348	.0118778	.0220634	.0401478	.0688278	.1089581	.1639133
50	.0013856	.0031010	.0068721	.0140695	.0267453	.0474307	.0788168	.1193184
51	.0006910	.0017510	.0040694	.0087204	.0173315	.0320743	.0555244	.0908798
52	.0003608	.0009605	.0023417	.0052567	.0109884	.0211040	.0380835	.0644455
53	.0001889	.0005119	.0013094	.0030794	.0066739	.0135098	.0254857	.0448067
54	.0000901	.0002650	.0007115	.0017537	.0039981	.0084118	.0168199	.0303338
55	.0000431	.0001333	.0003757	.0009707	.0023110	.0050948	.0104440	.0199914
56	.0000200	.0000651	.0001926	.0005288	.0013016	.0030007	.0064839	.0128837
57	.0000090	.0000309	.0000961	.0002731	.0007189	.0017188	.0038457	.0080086
58	.0000040	.0000143	.0000466	.0001368	.0003796	.0009574	.0022371	.0048488
59	.0000017	.0000064	.0000219	.0000686	.0001965	.0005188	.0012443	.0028733
60	.0000007	.0000028	.0000100	.0000339	.0000989	.0002731	.0006771	.0016517
61	.0000003	.0000018	.0000045	.0000154	.0000483	.0001398	.0003738	.0009236
62	.0000001	.0000005	.0000019	.0000070	.0000230	.0000696	.0001943	.0005089
63		.0000002	.0000008	.0000031	.0000106	.0000337	.0000984	.0002657
64		.0000001	.0000003	.0000013	.0000048	.0000158	.0000484	.0001367
65			.0000001	.0000005	.0000021	.0000070	.0000236	.0000684
66			.0000001	.0000002	.0000009	.0000030	.0000108	.0000339
67				.0000001	.0000004	.0000014	.0000048	.0000157
68					.0000001	.0000006	.0000021	.0000070
69					.0000001	.0000002	.0000009	.0000030
70						.0000001	.0000004	.0000014
71							.0000001	.0000006
72							.0000001	.0000002
73								.0000001

N	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999963	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999903	.9999966	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000
24	.9999758	.9999912	.9999970	.9999990	.9999997	.9999999	1.0000000	1.0000000
25	.9999416	.9999781	.9999928	.9999973	.9999991	.9999997	.9999999	1.0000000
26	.9998676	.9999483	.9999807	.9999931	.9999976	.9999992	.9999998	.9999999
27	.9997134	.9998832	.9999545	.9999830	.9999940	.9999979	.9999993	.9999998
28	.9994067	.9997479	.9998976	.9999602	.9999892	.9999948	.9999988	.9999996
29	.9988240	.9994789	.9997794	.9999107	.9999655	.9999873	.9999958	.9999988
30	.9977652	.9989678	.9995445	.9998079	.9999386	.9999708	.9999890	.9999961
31	.9959205	.9980374	.9990977	.9996037	.9998337	.9999333	.9999744	.9999906
32	.9928483	.9964140	.9982838	.9993146	.9996568	.9998567	.9999489	.9999798
33	.9879374	.9936960	.9968567	.9988033	.9993198	.9996048	.9998773	.9999514
34	.9803684	.9893258	.9944599	.9979542	.9987003	.9991185	.9997464	.9998954
35	.9691843	.9825710	.9905832	.9963465	.9974099	.9980760	.9994853	.9997836
36	.9532967	.9725315	.9845782	.9937853	.9957619	.9959878	.9990380	.9995864
37	.9315898	.9581640	.9757739	.9893797	.9927479	.9923118	.9982098	.9992699
38	.9029134	.9383602	.9626096	.9823343	.9880094	.9856487	.9968018	.9986891
39	.8665260	.9120499	.9446065	.9716629	.9808337	.9764733	.9944611	.9977349
40	.8219504	.8783391	.9204958	.9563344	.9703519	.9630922	.9907908	.9961105
41	.7709580	.8366604	.8893375	.9362908	.9555777	.9457088	.9851884	.9934698
42	.7099230	.7869108	.8504626	.9095603	.9354786	.9203686	.9767400	.9894898
43	.6488336	.7303516	.8036133	.8633906	.9090457	.8880773	.9647376	.9834869
44	.5788184	.6656440	.7490537	.8193876	.8754780	.8479310	.9481390	.9747180
45	.4994952	.5968069	.6876864	.7676341	.8348571	.8007586	.9259581	.9536988
46	.4870616	.5250958	.6207369	.7087648	.7853008	.7488467	.8978688	.9334440
47	.3578602	.4538179	.5502781	.6437789	.7290466	.6880849	.8613685	.9070389
48	.2991580	.3889107	.4790214	.5744588	.6664883	.6218398	.8170398	.8736913
49	.2333717	.3157806	.4074918	.5037990	.5991841	.5521193	.7691186	.8389403
50	.1819687	.2548138	.3396800	.4387831	.5288888	.4838997	.7098181	.7947048
51	.1384110	.2000462	.2768788	.3639871	.4579874	.4154803	.6458503	.7429394
52	.1026595	.1545106	.2205131	.2994890	.3884740	.3530310	.5779178	.6677938
53	.0742143	.1159515	.1714876	.2469098	.3285823	.2931034	.5131048	.5907634
54	.0528736	.0848442	.1301468	.1993076	.2619703	.2460048	.4537830	.5188877
55	.0358635	.0605099	.0963438	.1582307	.2079318	.1936883	.3999839	.4487074
56	.0239601	.0420481	.0695379	.1087170	.1611843	.1573176	.3058973	.3940898
57	.0155046	.0284614	.0489179	.0793757	.1219689	.1179035	.2647187	.3366813
58	.0098872	.0187608	.0338898	.0563010	.0900376	.0860761	.1954603	.2881889
59	.0060800	.0120403	.0230461	.0391971	.0646284	.0615339	.1510464	.2414094
60	.0036457	.0075220	.0145553	.0264948	.0454954	.0439039	.1130708	.1988898
61	.0021869	.0045737	.0088142	.0174433	.0311178	.0304836	.0837648	.1570804

dp	.33	.34	.35	.36	.37	.38	.39	.40
66	.0018078	.0087063	.0056702	.0111837	.0807359	.0368898	.0600987	.0944120
67	.0006665	.0015881	.0034057	.0069819	.0134564	.0144445	.0480395	.0604586
68	.0003879	.0006787	.0019876	.0048481	.0088059	.0166668	.0286608	.0403986
69	.0001849	.0004758	.0011289	.0035088	.0052337	.0103764	.0196580	.0333589
70	.0000949	.0000890	.0006237	.0014438	.0031346	.0063998	.0103179	.0224017
71	.0000469	.0001899	.0003358	.0006084	.0018870	.0038799	.0077609	.0146643
72	.0000285	.0000651	.0001758	.0004403	.0010361	.0022893	.0047608	.0093386
73	.0000108	.0000317	.0000891	.0002333	.0005717	.0013144	.0028435	.0057935
74	.0000048	.0000150	.0000440	.0001202	.0003068	.0007348	.0016514	.0034985
75	.0000021	.0000069	.0000218	.0000608	.0001601	.0003990	.0009335	.0020860
76	.0000009	.0000031	.0000098	.0000293	.0000813	.0002108	.0005133	.0011756
77	.0000004	.0000013	.0000045	.0000139	.0000401	.0001083	.0002745	.0006539
78	.0000002	.0000006	.0000020	.0000064	.0000198	.0000541	.0001427	.0003537
79	.0000001	.0000002	.0000008	.0000029	.0000090	.0000263	.0000728	.0001860
80		.0000001	.0000004	.0000012	.0000041	.0000134	.0000358	.0000951
81			.0000001	.0000005	.0000018	.0000057	.0000169	.0000473
82			.0000001	.0000002	.0000008	.0000025	.0000072	.0000238
83				.0000001	.0000003	.0000011	.0000035	.0000107
84					.0000001	.0000005	.0000015	.0000049
85					.0000001	.0000002	.0000007	.0000022
86						.0000001	.0000003	.0000009
87							.0000001	.0000004
88								.0000002
89								.0000001

dp	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
26	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
27	.9999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
28	.9999998	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
29	.9999995	.9999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
30	.9999987	.9999996	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
31	.9999967	.9999989	.9999997	.9999999	1.00000000	1.00000000	1.00000000	1.00000000
32	.9999921	.9999973	.9999991	.9999997	.9999999	1.00000000	1.00000000	1.00000000
33	.9999816	.9999934	.9999977	.9999992	.9999998	.9999999	1.00000000	1.00000000
34	.9999588	.9999845	.9999945	.9999981	.9999994	.9999998	.9999999	1.00000000
35	.9999114	.9999654	.9999871	.9999954	.9999994	.9999995	.9999998	1.00000000
36	.9998163	.9999254	.9999711	.9999893	.9999968	.9999987	.9999996	.9999999
37	.9996307	.9998449	.9999375	.9999760	.9999918	.9999966	.9999990	.9999997
38	.9992913	.9996896	.9998698	.9999480	.9999828	.9999938	.9999978	.9999993
39	.9986796	.9993978	.9997380	.9999013	.9999670	.9999838	.9999948	.9999980
40	.9976883	.9988734	.9994908	.9998065	.9999098	.9999647	.9999868	.9999953
41	.9958587	.9979620	.9990431	.9995716	.9998171	.9999256	.9999718	.9999894
42	.9930191	.9964398	.9982607	.9991911	.9996414	.9998485	.9999391	.9999767
43	.9886028	.9939845	.9969396	.9985288	.9993194	.9997015	.9998753	.9999594
44	.9819652	.9900787	.9947841	.9973854	.9987802	.9994307	.9997830	.9999300
45	.9723208	.9841958	.9913841	.9953178	.9977761	.9989488	.9993968	.9998648
46	.9587678	.9758898	.9861973	.9918304	.9956144	.9981178	.9984124	.9995079
47	.9403409	.9633958	.9788417	.9858044	.9917391	.9967091	.9958647	.9988467
48	.9160089	.9464758	.9674056	.9761017	.9848871	.9941978	.9907887	.9968704
49	.8852007	.9244784	.9514806	.9614952	.9733931	.9891087	.9813021	.9924619
50	.8470849	.8959390	.9298817	.9397864	.9540811	.9807313	.9658686	.9840078
51	.8015869	.8603987	.9025350	.9103347	.9266235	.9677287	.9376416	.9693018
52	.7487680	.8179419	.8693434	.8738178	.8929086	.9470209	.9000031	.9389418
53	.6895305	.7687383	.8306083	.8345086	.8538169	.9191143	.8710068	.8933170
54	.6250710	.7140987	.7858242	.7888173	.8098107	.8837417	.8374084	.8341178
55	.5570506	.6547199	.7360185	.7381181	.7604484	.8416933	.7990881	.7684080
56	.4874371	.5910883	.6819408	.6798695	.7064159	.7939897	.7565560	.6988078
57	.4183993	.5248434	.6244968	.6214542	.6486358	.7414542	.7104984	.6289854
58	.3517697	.4577839	.5646406	.5627816	.5879487	.6868089	.6619516	.5619301
59	.2895669	.3938770	.5034479	.5040854	.5253474	.6313741	.6131434	.4991778
60	.2331538	.3348078	.4417009	.4457003	.4644773	.5765306	.5617449	.4419107
61	.1834975	.2830148	.3809497	.3891033	.4060870	.5241884	.5123000	.3910146
62	.1410710	.2389371	.3225465	.3356358	.3509386	.4749890	.4660284	.3471084
63	.1058818	.1859847	.2681502	.2866909	.3001050	.4295674	.4236617	.3096536
64	.0775468	.1181594	.2186079	.2431123	.2544111	.3883285	.3858783	.2781847
65	.0559950	.0873980	.1742578	.2048609	.2137028	.3508816	.3475444	.2501374
66	.0395805	.0630536	.0980085	.1451789	.2053842	.2781293	.3613984	.4513877
67	.0276876	.0443446	.0714055	.1094107	.1599209	.2334487	.3991004	.3844759
68	.0173186	.0304857	.0507375	.0804681	.1216099	.1754784	.3488575	.3304778
69	.0111554	.0203521	.0351489	.0577875	.0908646	.1346148	.1910489	.2841861

$$R(n,m,p) = \sum_{k=m}^{n} \binom{n}{k} p^k (1-p)^{n-k} \qquad n = 155$$

k	.41	.42	.43	.44	.45	.46	.47	.48
70	.0069966	.0139347	.0257847	.0463776	.0683410	.1008141	.1464908	.2090097
71	.0048717	.0098889	.0185010	.0338848	.0511811	.0736663	.1061334	.1519400
72	.0033308	.0068176	.0129906	.0242796	.0381963	.0534434	.0769463	.1101370
73	.0022671	.0046007	.0088884	.0171883	.0281943	.0384369	.0554881	.0793881
74	.0015258	.0030164	.0059780	.0119441	.0205068	.0276779	.0398518	.0570088
75	.0010213	.0020384	.0039309	.0081410	.0148413	.0198664	.0285516	.0407998
76	.0006800	.0013706	.0025810	.0054704	.0106784	.0142384	.0204483	.0291076
77	.0004511	.0009166	.0016853	.0036531	.0076211	.0101886	.0145776	.0207176
78	.0002983	.0006103	.0010993	.0024280	.0054211	.0072557	.0103637	.0146189
79	.0001964	.0004054	.0007167	.0016075	.0038407	.0051347	.0073200	.0102900
80	.0001289	.0002681	.0004649	.0010597	.0027044	.0036133	.0051447	.0072081
81	.0000844	.0001768	.0003013	.0006944	.0018948	.0025408	.0036047	.0050447
82	.0000550	.0001163	.0001951	.0004534	.0013256	.0017788	.0025117	.0035047
83	.0000357	.0000763	.0001259	.0002954	.0009217	.0012345	.0017417	.0024300
84	.0000231	.0000498	.0000811	.0001915	.0006376	.0008543	.0012043	.0016811
85	.0000148	.0000324	.0000520	.0001236	.0004376	.0005863	.0008260	.0011536
86	.0000094	.0000209	.0000332	.0000794	.0002994	.0004013	.0005656	.0007900
87	.0000059	.0000134	.0000210	.0000508	.0002038	.0002731	.0003850	.0005381
88	.0000037	.0000085	.0000132	.0000322	.0001380	.0001850	.0002608	.0003647
89	.0000023	.0000053	.0000082	.0000202	.0000928	.0001243	.0001753	.0002452
90	.0000014	.0000033	.0000051	.0000125	.0000620	.0000830	.0001171	.0001638
91	.0000008	.0000020	.0000031	.0000076	.0000410	.0000550	.0000776	.0001086
92	.0000005	.0000012	.0000019	.0000046	.0000269	.0000362	.0000511	.0000715
93	.0000003	.0000007	.0000011	.0000027	.0000175	.0000236	.0000333	.0000466
94	.0000002	.0000004	.0000006	.0000016	.0000113	.0000152	.0000215	.0000301
95	.0000001	.0000002	.0000004	.0000009	.0000072	.0000097	.0000137	.0000192
96		.0000001	.0000002	.0000005	.0000045	.0000061	.0000086	.0000120
97			.0000001	.0000003	.0000028	.0000038	.0000053	.0000074
98				.0000002	.0000017	.0000023	.0000032	.0000045
99				.0000001	.0000010	.0000014	.0000019	.0000027
100					.0000006	.0000008	.0000011	.0000016
101					.0000003	.0000004	.0000006	.0000009
102					.0000001	.0000002	.0000003	.0000005
103						.0000001	.0000002	.0000003
104							.0000001	.0000001

k	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	.9999999	1.0000000
38	.9999997	.9999999
39	.9999984	.9999995
40	.9999904	.9999975
41	.9999563	.9999888
42	.9998615	.9999571
43	.9996813	.9998733
44	.9993887	.9997480
45	.9989171	.9994479
46	.9982339	.9989331
47	.9973774	.9980681
48	.9962998	.9967363
49	.9949813	.9949003
50	.9934363	.9925011
51	.9916831	.9896408
52	.9897400	.9863866
53	.9876477	.9828176
54	.9855689	.9790179
55	.9837884	.9751681
56	.9826488	.9807648
57	.9819881	.9770531
58	.9818885	.9737537
59	.9823443	.9709731
60	.9833984	.9688704
61	.9846483	.9669483
62	.9861988	.9651067
63	.9879395	.9632457
64	.9896488	.9613655
65	.9911885	.9594662
66	.9922992	.9574513
67	.9927414	.9552994

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 135

c \ p	.49	.80
68	.4079458	.8000000
69	.3487898	.7317076
70	.2882088	.6585947
71	.2362369	.5838711
72	.1785016	.5086318
73	.1371365	.4347813
74	.1028377	.3644413
75	.0758879	.2990517
76	.0536585	.2401296
77	.0378873	.1888069
78	.0258394	.1454063
79	.0166381	.1099469
80	.0106653	.0819358
81	.0066583	.0604379
82	.0040343	.0438281
83	.0023779	.0312884
84	.0013616	.0220414
85	.0007578	.0153398
86	.0004087	.0105189
87	.0002141	.0071997
88	.0001088	.0048637
89	.0000536	.0032349
90	.0000256	.0021669
91	.0000118	.0014321
92	.0000053	.0009150
93	.0000023	.0005867
94	.0000010	.0003729
95	.0000004	.0002318
96	.0000002	.0001435
97	.0000001	.0000882
98		.0000541

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 136

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.7450902	.9359165	.9841161	.9961195	.9990659	.9997785	.9999403	.9999881
2	.3949112	.7580521	.9173057	.9741300	.9923794	.9978556	.9994188	.9998475
3	.1561527	.5130347	.7778303	.9122845	.9686249	.9895709	.9967288	.9990222
4	.0484301	.2696856	.5051530	.7971832	.9127810	.9655507	.9876860	.9958169
5	.0122505	.1381272	.3870131	.6377200	.8150542	.9158204	.9650511	.9865492
6	.0026026	.0564713	.2252330	.4623104	.6792653	.8313457	.9200763	.9652738
7	.0004748	.0200872	.1159897	.3027364	.5232273	.7136203	.8461636	.9248815
8	.0000757	.0062973	.0532431	.1792566	.3707089	.5740673	.7428461	.8596516
9	.0000107	.0017593	.0219507	.0962935	.2412689	.4304317	.6174487	.7681879
10	.0000014	.0004422	.0081864	.0471303	.1443782	.3000391	.4832120	.6550734
11	.0000002	.0001008	.0027800	.0211147	.0796144	.1943378	.3548933	.5301556
12		.0000210	.0008647	.0086982	.0405701	.1170553	.2442608	.4057316
13		.0000040	.0002476	.0033090	.0191643	.0656706	.1575193	.2930287
14		.0000007	.0000656	.0011672	.0084181	.0343857	.0952434	.1995494
15		.0000001	.0000161	.0003832	.0034490	.0168414	.0540609	.1281335
16			.0000037	.0001174	.0013218	.0077333	.0288496	.0776248
17			.0000008	.0000337	.0004752	.0033367	.0144987	.0444099
18			.0000002	.0000091	.0001606	.0013558	.0068740	.0240223
19				.0000023	.0000512	.0005198	.0030799	.0123018
20				.0000006	.0000154	.0001885	.0013063	.0059722
21				.0000001	.0000044	.0000647	.0005253	.0027524
22					.0000012	.0000211	.0002006	.0012058
23					.0000003	.0000065	.0000729	.0005028
24					.0000001	.0000019	.0000252	.0001998
25						.0000005	.0000083	.0000758
26						.0000001	.0000026	.0000274
27							.0000007	.0000095
28							.0000002	.0000032
29							.0000001	.0000010
30								.0000003
31								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999973	.9999994	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999611	.9999904	.9999977	.9999994	.9999999	1.0000000	1.0000000	1.0000000
3	.9997197	.9999225	.9999793	.9999946	.9999987	.9999997	.9999999	1.0000000
4	.9996529	.9995860	.9998779	.9999654	.9999905	.9999975	.9999994	.9999998
5	.9951450	.9983425	.9994614	.9998326	.9999501	.9999857	.9999960	.9999989
6	.9859858	.9946951	.9981022	.9993547	.9997905	.9999348	.9999805	.9999944
7	.9668080	.9858466	.9944345	.9979318	.9992699	.9997541	.9999208	.9999755
8	.9298814	.9675876	.9860157	.9943883	.9978252	.9992079	.9997349	.9999087
9	.8719486	.9348743	.9692374	.9864048	.9943442	.9977740	.9991677	.9997034
10	.7904605	.8831787	.9397444	.9710379	.9869467	.9944542	.9977692	.9991472
11	.6881080	.8102306	.8934503	.9444253	.9728083	.9875908	.9946347	.9978018
12	.5721562	.7173875	.8279103	.9020562	.9488802	.9747225	.9882989	.9948664
13	.4527003	.6099302	.7435306	.8438108	.9114801	.9530901	.9766521	.9890422
14	.3400099	.4960439	.6440545	.7670096	.8581743	.9193911	.9570475	.9784605
15	.2420914	.3848691	.5360359	.6749978	.7881940	.8711937	.9266522	.9607524
16	.1633261	.2844000	.4274510	.5739484	.7031451	.8073788	.8830260	.9333188
17	.1044144	.1999781	.3259575	.4677099	.6070375	.7288160	.8248042	.8938015
18	.0638867	.1337648	.2374108	.3664108	.5056663	.6385387	.7522789	.8406688
19	.0363955	.0851267	.1650539	.2750881	.4055251	.5413798	.6576659	.7737611
20	.0198782	.0515635	.1095220	.1977479	.3125930	.4431505	.5749323	.6946121
21	.0103217	.0297475	.0693670	.1360515	.2313576	.3496043	.4791984	.6064175
22	.0051009	.0163577	.0419525	.0895788	.1643061	.2654853	.3858779	.5136232
23	.0024018	.0085809	.0242409	.0564527	.1119331	.1939040	.2997936	.4212306
24	.0010787	.0042980	.0133906	.0340631	.0731441	.1361469	.2244973	.3340028
25	.0004626	.0020574	.0070766	.0196879	.0458543	.0918776	.1619350	.2557747
26	.0001896	.0009420	.0035804	.0109060	.0275859	.0595919	.1124739	.1890201
27	.0000744	.0004130	.0017357	.0057935	.0159318	.0371536	.0752103	.1347361
28	.0000279	.0001735	.0008068	.0029531	.0088372	.0222721	.0484194	.0926109
29	.0000101	.0000699	.0003598	.0014454	.0047104	.0128413	.0300147	.0613753
30	.0000035	.0000270	.0001541	.0006797	.0024138	.0071239	.0179192	.0392180
31	.0000012	.0000100	.0000634	.0003073	.0011899	.0038042	.0103061	.0241651
32	.0000004	.0000036	.0000251	.0001338	.0005645	.0019564	.0057123	.0143610
33	.0000001	.0000012	.0000096	.0000559	.0002579	.0009693	.0030522	.0082335
34		.0000004	.0000035	.0000226	.0001135	.0004630	.0015728	.0045532
35		.0000001	.0000012	.0000088	.0000492	.0002132	.0007830	.0024327
36			.0000004	.0000033	.0000197	.0000947	.0003752	.0012545
37			.0000001	.0000012	.0000078	.0000406	.0001738	.0006247
38				.0000004	.0000030	.0000168	.0000778	.0003008
39				.0000001	.0000011	.0000067	.0000336	.0001399
40					.0000004	.0000026	.0000141	.0000630
41					.0000001	.0000010	.0000057	.0000274
42						.0000004	.0000022	.0000115
43						.0000001	.0000008	.0000047
44							.0000003	.0000019
45							.0000001	.0000007
46								.0000003
47								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999984	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999927	.9999979	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999709	.9999911	.9999974	.9999993	.9999998	.9999999	1.0000000	1.0000000
9	.9998989	.9999670	.9999897	.9999969	.9999991	.9999997	.9999999	1.0000000
10	.9996892	.9998918	.9999639	.9999884	.9999964	.9999989	.9999997	.9999999
11	.9991437	.9996820	.9998871	.9999616	.9999875	.9999961	.9999988	.9999997

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 136

p	.17	.18	.19	.20	.21	.22	.23	.24
12	.9978639	.9991546	.9996809	.9998849	.9999603	.9999868	.9999958	.9999987
13	.9951335	.9979486	.9991770	.9996851	.9998848	.9999597	.9999865	.9999956
14	.9897991	.9954234	.9980496	.9992085	.9996936	.9998866	.9999598	.9999864
15	.9802000	.9905534	.9957260	.9981618	.9992469	.9997055	.9998899	.9999606
16	.9642091	.9818548	.9912932	.9960336	.9982812	.9992901	.9997201	.9998945
17	.9394401	.9674251	.9834298	.9920098	.9963398	.9984040	.9993365	.9997366
18	.9036296	.9450602	.9704097	.9849090	.9926969	.9966399	.9985277	.9993847
19	.8551391	.9126038	.9502186	.9731731	.9862951	.9933504	.9969305	.9986499
20	.7934575	.8683564	.9208046	.9549514	.9757263	.9875882	.9939674	.9972088
21	.7195511	.8115363	.8804420	.9283023	.9592912	.9780806	.9887899	.9945465
22	.6359346	.7486394	.8281438	.8915010	.9351585	.9632677	.9803470	.9899026
23	.5464110	.6635837	.7640184	.8434085	.9016256	.9414282	.9669083	.9822369
24	.4555274	.5775698	.6894635	.7838156	.8574440	.9108967	.9471601	.9702383
25	.3678831	.4886712	.6071233	.7136699	.8021471	.8703512	.9193865	.9523982
26	.2874615	.4012470	.5205950	.6351066	.7362949	.8191182	.8822203	.9271593
27	.2171392	.3193176	.4339434	.5512564	.6615619	.7574265	.8348251	.8931327
28	.1584589	.2460475	.3511351	.4658514	.5806274	.6865367	.7771484	.8493558
29	.1116712	.1834359	.2755195	.3827350	.4968755	.6087008	.7100819	.7955399
30	.0759826	.1322514	.2094646	.3053507	.4139645	.5269420	.6354767	.7322500
31	.0499114	.0921776	.1542013	.2363498	.3353565	.4446941	.5559948	.6609656
32	.0316524	.0620987	.1098763	.1773651	.2639063	.3653715	.4748147	.5839930
33	.0193812	.0404336	.0757603	.1289793	.2015852	.2919599	.3952489	.5042351
34	.0114602	.0254457	.0505403	.0908571	.1493761	.2267052	.3203488	.4248589
35	.0065454	.0154789	.0326189	.0619851	.1073327	.1709483	.2525724	.3489232
36	.0036118	.0091029	.0203679	.0409498	.0747625	.1251174	.1935731	.2790394
37	.0019260	.0051763	.0123056	.0261959	.0504702	.0888509	.1441302	.2171249
38	.0009928	.0028467	.0071943	.0162271	.0330211	.0612050	.1042150	.1642818
39	.0004949	.0015144	.0040708	.0097342	.0209355	.0408902	.0731532	.1208069
40	.0002386	.0007795	.0022297	.0056553	.0128628	.0264923	.0498387	.0863087
41	.0001113	.0003884	.0011834	.0031825	.0076590	.0166444	.0329508	.0598903
42	.0000502	.0001873	.0006072	.0017350	.0044200	.0101408	.0211395	.0403563
43	.0000220	.0000875	.0003020	.0009165	.0024725	.0059916	.0131593	.0264035
44	.0000093	.0000396	.0001456	.0004692	.0013409	.0034334	.0079485	.0167714
45	.0000038	.0000173	.0000680	.0002328	.0007050	.0019083	.0046586	.0103423
46	.0000015	.0000074	.0000309	.0001120	.0003595	.0010288	.0026496	.0061916
47	.0000006	.0000030	.0000135	.0000522	.0001778	.0005381	.0014624	.0035986
48	.0000002	.0000012	.0000057	.0000236	.0000853	.0002731	.0007834	.0020306
49	.0000001	.0000005	.0000024	.0000104	.0000397	.0001345	.0004073	.0011125
50		.0000002	.0000009	.0000044	.0000179	.0000643	.0002056	.0005918
51		.0000001	.0000004	.0000018	.0000079	.0000298	.0001007	.0003057
52			.0000001	.0000007	.0000033	.0000134	.0000479	.0001534
53			.0000001	.0000003	.0000014	.0000059	.0000221	.0000747
54				.0000001	.0000006	.0000025	.0000099	.0000354
55					.0000002	.0000010	.0000043	.0000163
56					.0000001	.0000004	.0000018	.0000073
57						.0000002	.0000008	.0000031
58						.0000001	.0000003	.0000013
59							.0000001	.0000005
60								.0000003
61								.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999956	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999865	.9999956	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000
16	.9999619	.9999868	.9999956	.9999986	.9999996	.9999999	1.0000000	1.0000000
17	.9999000	.9999637	.9999874	.9999958	.9999987	.9999996	.9999999	1.0000000
18	.9997344	.9999062	.9999657	.9999880	.9999960	.9999987	.9999996	.9999999
19	.9994334	.9997728	.9999129	.9999680	.9999888	.9999962	.9999988	.9999996
20	.9987688	.9994817	.9997915	.9999198	.9999705	.9999896	.9999965	.9999989
21	.9974730	.9988833	.9995289	.9998101	.9999268	.9999730	.9999905	.9999968
22	.9950870	.9977219	.9989923	.9995743	.9998281	.9999336	.9999755	.9999913
23	.9909296	.9955889	.9979548	.9990951	.9996176	.9998455	.9999403	.9999779
24	.9840608	.9918744	.9960529	.9981714	.9991913	.9996584	.9998621	.9999467
25	.9732807	.9857294	.9927409	.9964800	.9983716	.9992807	.9996965	.9998776
26	.9571823	.9760570	.9872529	.9935333	.9968715	.9985556	.9993638	.9997318
27	.9342731	.9615484	.9785872	.9886410	.9942557	.9972290	.9987240	.9994389
28	.9031618	.9407802	.9655293	.9808898	.9899030	.9949125	.9975541	.9988774
29	.8627913	.9123744	.9467283	.9691553	.9829819	.9910479	.9955078	.9978487
30	.8136761	.8752059	.9208313	.9521606	.9724541	.9848796	.9920841	.9960458
31	.7530947	.8286280	.8866685	.9285883	.9571170	.9754510	.9865979	.9930199
32	.6851847	.7726697	.8434632	.8972431	.9356967	.9616340	.9781699	.9881508
33	.6109081	.7081569	.7910286	.8572452	.9069887	.9425039	.9657454	.9806384
34	.5328803	.6367225	.7299093	.8082243	.8700345	.9159606	.9481535	.9694821
35	.4540877	.5606887	.6614272	.7504725	.8243087	.8818883	.9242103	.9535862
36	.3775458	.4828347	.5876112	.6850205	.7698794	.8393328	.8928610	.9317860
37	.3059652	.4060913	.5110144	.6136091	.7075071	.7881649	.8533463	.9030041
38	.2414781	.3332159	.4344461	.5385521	.6386531	.7288970	.8053653	.8663976
39	.1854763	.2665084	.3606655	.4625075	.5653840	.6627220	.7492044	.8215178
40	.1385687	.2076136	.2920939	.3881961	.4901833	.5914566	.6858017	.7684478
41	.1006517	.1574336	.2305908	.3181163	.4156976	.5173914	.6167249	.7078843
42	.0710180	.1161516	.1773279	.2543038	.3444615	.4430682	.5440587	.6411528

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 15

p	.25	.26	.27	.28	.29	.30	.31	.32
43	.0187453	.0833439	.1327684	.1981725	.2786481	.3710202	.4702141	.5701808
44	.0324864	.0581453	.0967403	.1504536	.2198839	.3035201	.3976885	.4970488
45	.0810313	.0394321	.0685752	.1112301	.1691517	.2423755	.3288179	.4243676
46	.0132248	.0259900	.0472777	.0800450	.1267876	.1888012	.2655589	.3544417
47	.0080771	.0166470	.0316947	.0560536	.0925565	.1433795	.2093354	.2893443
48	.0047913	.0103609	.0206580	.0381876	.0657829	.1061034	.1609655	.2306834
49	.0027605	.0062658	.0130892	.0253051	.0455064	.0764821	.1206718	.1794989
50	.0015448	.0036818	.0080616	.0163078	.0306327	.0536833	.0881604	.1364409
51	.0008397	.0021020	.0048261	.0102196	.0200618	.0366818	.0627449	.1008802
52	.0004433	.0011661	.0028081	.0062271	.0127811	.0243951	.0434902	.0727125
53	.0002274	.0006285	.0015881	.0036892	.0079200	.0157876	.0293496	.0510911
54	.0001133	.0003292	.0008725	.0021249	.0047731	.0099410	.0192807	.0349651
55	.0000548	.0001675	.0004664	.0011899	.0027975	.0060897	.0123876	.0233010
56	.0000258	.0000829	.0002422	.0006478	.0015945	.0036289	.0076702	.0151174
57	.0000116	.0000398	.0001222	.0003428	.0008837	.0021034	.0046436	.0095470
58	.0000052	.0000186	.0000600	.0001764	.0004762	.0011858	.0027351	.0058679
59	.0000023	.0000084	.0000286	.0000888	.0002496	.0006502	.0015672	.0035097
60	.0000009	.0000037	.0000132	.0000429	.0001272	.0003467	.0008736	.0020426
61	.0000004	.0000016	.0000060	.0000203	.0000630	.0001798	.0004736	.0011566
62	.0000002	.0000007	.0000026	.0000093	.0000303	.0000907	.0002498	.0006371
63	.0000001	.0000003	.0000011	.0000042	.0000142	.0000445	.0001281	.0003414
64		.0000001	.0000005	.0000018	.0000065	.0000212	.0000639	.0001780
65			.0000002	.0000008	.0000029	.0000098	.0000310	.0000902
66			.0000001	.0000003	.0000012	.0000044	.0000146	.0000445
67				.0000001	.0000005	.0000019	.0000067	.0000213
68					.0000002	.0000008	.0000030	.0000099
69					.0000001	.0000003	.0000013	.0000045
70						.0000001	.0000005	.0000020
71						.0000001	.0000002	.0000009
72							.0000001	.0000004
73								.0000001
74								.0000001

p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999971	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999922	.9999974	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
24	.9999803	.9999930	.9999976	.9999992	.9999998	.9999999	1.0000000	1.0000000
25	.9999528	.9999826	.9999939	.9999979	.9999993	.9999998	.9999999	1.0000000
26	.9998920	.9999584	.9999847	.9999946	.9999982	.9999994	.9999998	.9999999
27	.9997643	.9999053	.9999637	.9999867	.9999953	.9999984	.9999995	.9999998
28	.9995079	.9997939	.9999175	.9999684	.9999885	.9999960	.9999987	.9999996
29	.9990163	.9995704	.9998207	.9999283	.9999728	.9999901	.9999965	.9999989
30	.9981146	.9991416	.9996267	.9998449	.9999385	.9999767	.9999918	.9999971
31	.9965306	.9983537	.9992541	.9996772	.9998666	.9999473	.9999801	.9999928
32	.9938688	.9969660	.9985680	.9993546	.9997222	.9998858	.9999588	.9999832
33	.9895513	.9946201	.9973558	.9987593	.9994441	.9997633	.9999089	.9999621
34	.9828589	.9908117	.9952988	.9977038	.9989293	.9995233	.9997974	.9999178
35	.9728711	.9848682	.9919433	.9959053	.9980133	.9990799	.9995938	.9998283
36	.9585396	.9759452	.9866778	.9929569	.9964456	.9982877	.9992187	.9996545
37	.9387330	.9630490	.9787233	.9881041	.9938625	.9969256	.9985301	.9993893
38	.9123667	.9450935	.9671471	.9812306	.9897623	.9946693	.9973507	.9989434
39	.8785338	.9209954	.9509076	.9708646	.9834887	.9910665	.9953861	.9982258
40	.8366603	.8898008	.9289346	.9562126	.9742302	.9855178	.9922300	.9969211
41	.7866465	.8508312	.9002489	.9362265	.9610442	.9772708	.9873567	.9938651
42	.7289676	.8038257	.8640588	.9099033	.9429115	.9654355	.9800115	.9880632
43	.6647091	.7490838	.8200106	.8764115	.9188237	.9490800	.9694188	.9764761
44	.5955814	.6873726	.7681496	.8353286	.8879981	.9270446	.9546126	.9573880
45	.5234939	.6202116	.7091259	.7862653	.8495088	.8985661	.9346058	.9297003
46	.4509647	.5494776	.6441495	.7295575	.8034147	.8628812	.9084535	.9415434
47	.3809946	.4773924	.5749355	.6672998	.7498608	.8196140	.8753770	.9175974
48	.3136417	.4062831	.5035691	.5998094	.6896330	.7688336	.8348023	.8870879
49	.2527711	.3383612	.4323171	.5294190	.6240477	.7111255	.7868777	.8498407
50	.1989277	.2755219	.3634141	.4583104	.5548719	.6476048	.7317585	.8039988
51	.1527830	.2191951	.2998573	.3887128	.4841808	.5798630	.6704406	.7515143
52	.1144875	.1702647	.2402401	.3226975	.4141716	.5098504	.6043331	.6925806
53	.0836012	.1290616	.1886465	.2619983	.3469622	.4397074	.5352454	.6282881
54	.0597140	.0954258	.1446160	.2078844	.2844024	.3715710	.4652388	.5603968
55	.0412789	.0687836	.1081749	.1610984	.2279294	.3073827	.3964436	.4906876
56	.0278883	.0483251	.0789200	.1218620	.1784809	.2487886	.3308677	.4215006
57	.0183485	.0330809	.0561349	.0899386	.1364748	.1967305	.2702354	.3547845
58	.0117539	.0220590	.0389154	.0647359	.1018500	.1520009	.2158095	.2931601
59	.0073298	.0143253	.0262863	.0454265	.0741520	.1146599	.1684224	.2356758
60	.0044490	.0090582	.0172961	.0310672	.0526464	.0844033	.1283693	.1857168
61	.0026281	.0055761	.0110836	.0207016	.0364375	.0606047	.0955060	.1429741

$$B(c;n,\pi) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x} \qquad n = 136$$

x	.33	.34	.35	.36	.37	.38	.39	.40
62	.0015107	.0033412	.0069158	.0134372	.0245772	.0424317	.0693284	.1074720
63	.0008449	.0019485	.0043011	.0084941	.0161510	.0289579	.0490826	.0788413
64	.0004597	.0011058	.0026841	.0052282	.0103363	.0192579	.0338785	.0564214
65	.0002434	.0006106	.0016295	.0031328	.0064444	.0124767	.0227909	.0393730
66	.0001253	.0003280	.0008005	.0018272	.0039112	.0078729	.0149387	.0267834
67	.0000628	.0001714	.0004362	.0010371	.0023108	.0048375	.0095361	.0177545
68	.0000306	.0000877	.0002312	.0005728	.0013288	.0028937	.0059307	.0114657
69	.0000145	.0000443	.0001192	.0003078	.0007435	.0016849	.0035904	.0072115
70	.0000067	.0000207	.0000598	.0001609	.0004048	.0009547	.0021158	.0044165
71	.0000030	.0000097	.0000292	.0000818	.0002144	.0005264	.0012135	.0026330
72	.0000013	.0000044	.0000138	.0000404	.0001104	.0002823	.0006772	.0015278
73	.0000005	.0000019	.0000064	.0000194	.0000553	.0001473	.0003676	.0008626
74	.0000002	.0000008	.0000029	.0000091	.0000270	.0000747	.0001941	.0004738
75	.0000001	.0000003	.0000012	.0000041	.0000128	.0000369	.0000997	.0002551
76		.0000001	.0000005	.0000018	.0000059	.0000177	.0000490	.0001315
77		.0000001	.0000002	.0000008	.0000026	.0000082	.0000242	.0000664
78			.0000001	.0000003	.0000011	.0000037	.0000114	.0000326
79				.0000001	.0000005	.0000016	.0000052	.0000156
80				.0000001	.0000002	.0000007	.0000023	.0000072
81					.0000001	.0000003	.0000010	.0000032
82						.0000001	.0000004	.0000014
83							.0000002	.0000006
84							.0000001	.0000002
85								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999975	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999940	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
33	.9999859	.9999950	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000
34	.9999682	.9999882	.9999959	.9999986	.9999996	.9999999	1.0000000	1.0000000
35	.9999309	.9999734	.9999903	.9999968	.9999989	.9999996	.9999999	1.0000000
36	.9998553	.9999422	.9999780	.9999920	.9999972	.9999991	.9999997	.9999999
37	.9997080	.9998787	.9999529	.9999819	.9999935	.9999978	.9999993	.9999998
38	.9994313	.9997545	.9998989	.9999603	.9999852	.9999947	.9999982	.9999994
39	.9989304	.9995201	.9997947	.9999163	.9999675	.9999880	.9999958	.9999986
40	.9980557	.9990937	.9995971	.9998293	.9999311	.9999735	.9999903	.9999966
41	.9965817	.9983448	.9992356	.9996635	.9998588	.9999436	.9999786	.9999922
42	.9941833	.9970750	.9985971	.9993585	.9997205	.9998840	.9999542	.9999828
43	.9904135	.9949953	.9975076	.9988165	.9994644	.9997691	.9999053	.9999630
44	.9846866	.9917030	.9957109	.9978856	.9990065	.9995553	.9998105	.9999232
45	.9762750	.9866640	.9928451	.9963395	.9982145	.9991702	.9996328	.9998454
46	.9643246	.9792039	.9884276	.9938561	.9968897	.9984995	.9993106	.9996986
47	.9478960	.9685170	.9818336	.9899959	.9947454	.9973693	.9987454	.9994305
48	.9260346	.9536982	.9723042	.9841080	.9913859	.9955257	.9977857	.9989566
49	.8978865	.9338013	.9589844	.9757268	.9862894	.9926137	.9962076	.9981456
50	.8627124	.9079256	.9409330	.9637875	.9788006	.9881589	.9936943	.9968011
51	.8202057	.8753221	.9172383	.9474646	.9681394	.9815558	.9898163	.9946417
52	.7703956	.8355103	.8870962	.9255380	.9534303	.9720708	.9840172	.9912804
53	.7138154	.7883854	.8499271	.8980621	.9337581	.9588633	.9756111	.9862086
54	.6514994	.7343007	.8054865	.8634732	.9082485	.9410319	.9637964	.9787887
55	.5849389	.6741030	.7539568	.8217012	.8761681	.9176848	.9476926	.9682612
56	.5159786	.6091121	.6960002	.7727682	.8370354	.8880331	.9264013	.9537730
57	.4466635	.5410398	.6327601	.7171569	.7907241	.8514980	.8990914	.9344290
58	.3790591	.4718555	.5658022	.6556312	.7375436	.8078173	.8651009	.9093678
59	.3150701	.4036173	.4970012	.5902005	.6780783	.7571354	.8240447	.8778586
60	.2562832	.3382905	.4283844	.5228273	.6141731	.7000586	.7759116	.8394067
61	.2030866	.2775816	.3619545	.4552860	.5468626	.6376617	.7211338	.7938559
62	.1584659	.2228098	.2995176	.3859935	.4782401	.5714384	.6606121	.7414496
63	.1203094	.1748311	.2425400	.3220147	.4103278	.5031976	.5956886	.6829738
64	.0891641	.1340217	.1920519	.2630069	.3450734	.4349166	.5280623	.6195498
65	.0644772	.1003143	.1486084	.2101052	.2841661	.3685718	.4596585	.5527716
66	.0454744	.0732769	.1123057	.1640646	.2289662	.3059696	.3924659	.4844919
67	.0312687	.0522148	.0828448	.1251487	.1803812	.2486018	.3283660	.4166896
68	.0209549	.0362800	.0596248	.0932028	.1388499	.1975447	.2689774	.3513006
69	.0136823	.0245714	.0418503	.0677334	.1043700	.1534121	.2155375	.2900538

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 136

c \ p	.41	.42	.43	.44	.45	.46	.47	.48
70	.0087017	.0162156	.0286358	.0480117	.0765681	.1163625	.1680343	.2343377
71	.0053889	.0104242	.0190942	.0331802	.0547959	.0861543	.1291933	.1851116
72	.0032489	.0065257	.0124031	.0223475	.0382368	.0622336	.0965151	.1428720
73	.0019064	.0039771	.0078461	.0146636	.0260056	.0438377	.0703341	.1076724
74	.0010885	.0023592	.0048322	.0093706	.0172321	.0300992	.0500150	.0791863
75	.0006046	.0013617	.0028966	.0058300	.0111208	.0201357	.0346594	.0568002
76	.0003266	.0007646	.0016895	.0035303	.0069873	.0131194	.0234025	.0397175
77	.0001716	.0004175	.0009586	.0020800	.0042729	.0083222	.0153902	.0270617
78	.0000876	.0002217	.0005289	.0011921	.0025423	.0051379	.0098537	.0179583
79	.0000435	.0001144	.0002837	.0006644	.0014713	.0030861	.0061399	.0116022
80	.0000210	.0000574	.0001460	.0003600	.0008279	.0018029	.0037220	.0072946
81	.0000098	.0000280	.0000750	.0001896	.0004529	.0010240	.0021942	.0044618
82	.0000045	.0000132	.0000369	.0000970	.0002407	.0005653	.0012576	.0026535
83	.0000020	.0000061	.0000176	.0000482	.0001243	.0003033	.0007005	.0015341
84	.0000008	.0000027	.0000082	.0000233	.0000624	.0001580	.0003790	.0008618
85	.0000004	.0000012	.0000037	.0000109	.0000304	.0000799	.0001992	.0004703
86	.0000001	.0000005	.0000016	.0000050	.0000143	.0000393	.0001016	.0002492
87	.0000001	.0000002	.0000007	.0000022	.0000066	.0000187	.0000503	.0001282
88		.0000001	.0000003	.0000009	.0000029	.0000086	.0000242	.0000640
89			.0000001	.0000004	.0000013	.0000039	.0000113	.0000310
90				.0000002	.0000005	.0000017	.0000051	.0000145
91				.0000001	.0000002	.0000007	.0000022	.0000066
92					.0000001	.0000003	.0000009	.0000029
93						.0000001	.0000004	.0000012
94							.0000002	.0000005
95							.0000001	.0000002
96								.0000001

c \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	.9999999	1.0000000
38	.9999998	.9999999
39	.9999995	.9999999
40	.9999989	.9999996
41	.9999973	.9999991
42	.9999939	.9999979
43	.9999863	.9999958
44	.9999704	.9999892
45	.9999381	.9999765
46	.9998747	.9999505
47	.9997541	.9998991
48	.9995383	.9998007
49	.9991572	.9996183
50	.9984954	.9992907
51	.9973156	.9987806
52	.9954689	.9977594
53	.9925687	.9956881
54	.9881585	.9916977
55	.9816307	.9838700
56	.9720886	.9681632
57	.9593059	.9439087
58	.9417991	.9063834
59	.9188888	.8485434
60	.8897883	.7676818
61	.8539072	.6709093
62	.8109960	.5675535
63	.7610368	.4678037
64	.7047008	.3798087
65	.6429617	.3057488
66	.5778868	.2468671

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 136

x	.49	.50
67	.8093449	.6014488
68	.4411753	.5341462
69	.3747158	.4658538
70	.3117879	.3985512
71	.8539190	.3341329
72	.2033349	.2743513
73	.1574054	.2201913
74	.1196441	.1727963
75	.0887567	.1324465
76	.0642244	.0990907
77	.0453062	.0723182
78	.0311429	.0514566
79	.0208497	.0356766
80	.0135690	.0240913
81	.0086187	.0158368
82	.0053171	.0101300
83	.0031895	.0063023
84	.0018596	.0038119
85	.0010534	.0022406
86	.0005795	.0012794
87	.0003095	.0007093
88	.0001604	.0003817
89	.0000806	.0001993
90	.0000393	.0001009
91	.0000186	.0000495
92	.0000083	.0000235
93	.0000038	.0000108
94	.0000016	.0000048
95	.0000007	.0000021
96	.0000003	.0000009
97	.0000001	.0000004
98		.0000001
99		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 137

c	.01	.02	.03	.04	.05	.06	.07	.08
1	.7476393	.9371982	.9845927	.9962747	.9991186	.9997918	.9999519	.9999891
2	.3984130	.7616093	.9193100	.9750096	.9927137	.9979710	.9994559	.9998586
3	.1565403	.5179351	.7820146	.9147563	.9698126	.9900680	.9969171	.9990883
4	.0495073	.2941526	.5909333	.8017873	.9155732	.9673679	.9883180	.9960733
5	.0126123	.1411584	.3929573	.6440965	.8199405	.9188283	.9666355	.9872906
6	.0026991	.0581044	.2300864	.4693268	.6960548	.8364142	.9232236	.9669759
7	.0004961	.0208149	.1192670	.3091104	.5310292	.7206038	.8513374	.9201129
8	.0000797	.0065731	.0551255	.1841950	.3783348	.5824405	.7500784	.8640699
9	.0000113	.0018501	.0228895	.0996121	.2477409	.4390498	.6262265	.7755050
10	.0000014	.0004685	.0085993	.0490968	.1492227	.3078626	.4926086	.6641325
11	.0000002	.0001076	.0029423	.0221553	.0828525	.2006799	.3638756	.5401490
12		.0000226	.0009221	.0091948	.0425224	.1216922	.2520051	.4156855
13		.0000043	.0002662	.0035246	.0202346	.0687537	.1635918	.3080449
14		.0000008	.0000711	.0012529	.0089554	.0362626	.0996027	.2070877
15		.0000001	.0000176	.0004145	.0036974	.0178941	.0569437	.1338467
16			.0000041	.0001281	.0014282	.0082798	.0306144	.0816655
17			.0000009	.0000371	.0005175	.0036005	.0155033	.0470671
18			.0000002	.0000101	.0001764	.0014746	.0074078	.0256533
19				.0000026	.0000566	.0005700	.0033455	.0132394
20				.0000006	.0000172	.0002083	.0014304	.0064786
21				.0000001	.0000049	.0000721	.0005800	.0030100
22					.0000013	.0000237	.0002833	.0013895
23					.0000003	.0000074	.0000818	.0005591
24					.0000001	.0000022	.0000285	.0002241
25						.0000006	.0000095	.0000857
26						.0000002	.0000030	.0000313
27							.0000009	.0000109
28							.0000003	.0000037
29							.0000001	.0000018
30								.0000004
31								.0000001

c	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999976	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999644	.9999913	.9999979	.9999995	.9999999	1.0000000	1.0000000	1.0000000
3	.9997414	.9999293	.9999813	.9999952	.9999988	.9999997	.9999999	1.0000000
4	.9987489	.9996196	.9998891	.9999689	.9999916	.9999978	.9999994	.9999999
5	.9954607	.9984669	.9995072	.9998485	.9999553	.9999873	.9999965	.9999991
6	.9860101	.9950598	.9982517	.9994120	.9998112	.9999419	.9999828	.9999951
7	.9679880	.9867314	.9948379	.9981025	.9993370	.9997794	.9999397	.9999785
8	.9311508	.9694137	.9869418	.9947607	.9981130	.9992844	.9997543	.9999193
9	.8771625	.9391456	.9710030	.9873556	.9947968	.9979748	.9992513	.9997368
10	.7977945	.8883483	.9429886	.9728019	.9879084	.9949190	.9979789	.9992368
11	.6973197	.8175254	.8985426	.9476188	.9747333	.9885517	.9951049	.9980171
12	.5825918	.7266718	.8351197	.9078451	.9520038	.9765843	.9892493	.9953361
13	.4634514	.6206759	.7528124	.8508964	.9163421	.9561284	.9783991	.9899741
14	.3501521	.5074345	.6549969	.7762258	.8651041	.9241089	.9599882	.9801536
15	.2509040	.3959866	.5479180	.6860393	.7973914	.8779413	.9312115	.9638057
16	.1704150	.2944469	.4393953	.5851943	.7142015	.8163139	.8895699	.9377082
17	.1097165	.2084203	.3371218	.4803385	.6195315	.7398148	.8358375	.9001948
18	.0669882	.1403862	.2471509	.3785667	.5188445	.6511775	.7631577	.8491701
19	.0388157	.0899905	.1730176	.2860468	.4185434	.5549820	.6803579	.7844664
20	.0213647	.0549199	.1156311	.2070287	.3246742	.4569086	.5886423	.7072760
21	.0111818	.0319291	.0737841	.1434550	.2419182	.3627008	.4935585	.6205287
22	.0055706	.0176967	.0449681	.0951555	.1730228	.2772619	.3998760	.5284703
23	.0026448	.0093586	.0261891	.0604278	.1187416	.2039254	.3187063	.4350134
24	.0011978	.0047262	.0145842	.0367498	.0781867	.1442329	.2537918	.3479593
25	.0005181	.0022814	.0077711	.0214129	.0494020	.0980753	.1713193	.2662912
26	.0002142	.0010536	.0039650	.0119598	.0299608	.0641119	.1198931	.1997008
27	.0000848	.0004659	.0019386	.0064070	.0174469	.0402950	.0807998	.1434815
28	.0000321	.0001974	.0009089	.0032940	.0097595	.0243555	.0524380	.0993510
29	.0000117	.0000802	.0004090	.0016263	.0052469	.0141616	.0327754	.0663730
30	.0000041	.0000313	.0001767	.0007716	.0027124	.0079243	.0197335	.0427631
31	.0000014	.0000117	.0000734	.0003520	.0013490	.0042690	.0114481	.0265735
32	.0000004	.0000042	.0000293	.0001545	.0006458	.0022151	.0064013	.0159897
33	.0000001	.0000015	.0000113	.0000653	.0002978	.0011075	.0034512	.0092139
34		.0000005	.0000042	.0000266	.0001323	.0005339	.0017948	.0051437
35		.0000002	.0000015	.0000104	.0000567	.0002482	.0009006	.0027723
36			.0000005	.0000039	.0000234	.0001113	.0004368	.0014430
37			.0000002	.0000014	.0000093	.0000488	.0002041	.0007856
38			.0000001	.0000005	.0000036	.0000202	.0000928	.0003986
39				.0000002	.0000013	.0000081	.0000403	.0001657
40				.0000001	.0000005	.0000032	.0000170	.0000753
41					.0000002	.0000012	.0000069	.0000331
42					.0000001	.0000004	.0000027	.0000141
43						.0000002	.0000010	.0000058
44						.0000001	.0000004	.0000023
45							.0000001	.0000009
46								.0000003
47								.0000001

c	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999937	.9999982	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999746	.9999923	.9999978	.9999994	.9999998	1.0000000	1.0000000	1.0000000
9	.9999112	.9999713	.9999911	.9999974	.9999992	.9999998	.9999999	1.0000000
10	.9997249	.9999053	.9999688	.9999901	.9999970	.9999991	.9999998	.9999999
11	.9991365	.9997198	.9999017	.9999670	.9999894	.9999967	.9999990	.9999997

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 137

r	.17	.18	.19	.20	.21	.22	.23	.24
13	.9980815	.9992495	.9997201	.9999003	.9999660	.9999869	.9999965	.9999989
14	.9955977	.9981656	.9993727	.9997250	.9999007	.9999657	.9999886	.9999964
15	.9907060	.9958779	.9982638	.9993038	.9997337	.9999027	.9999660	.9999886
16	.9818318	.9914300	.9961675	.9983712	.9993407	.9997454	.9999060	.9999668
17	.9669276	.9834238	.9921355	.9964592	.9984840	.9993015	.9997592	.9999104
18	.9436509	.9700232	.9849238	.9928146	.9967475	.9985990	.9994847	.9997745
19	.9097174	.9490859	.9728635	.9863292	.9934619	.9970280	.9987137	.9994691
20	.8633825	.9184459	.9540549	.9755203	.9876395	.9940741	.9972978	.9988262
21	.8039434	.8763209	.9263933	.9585957	.9779457	.9886559	.9946489	.9975546
22	.7321152	.8217639	.8881109	.9336321	.9627425	.9801722	.9899807	.9951055
23	.6501494	.7550409	.8380804	.8988613	.9403264	.9665265	.9822119	.9910178
24	.5616300	.6778137	.7762022	.8530270	.9086675	.9462329	.9699762	.9840766
25	.4709776	.5930523	.7036289	.7957342	.8667221	.9176136	.9517022	.9731179
26	.3827826	.5046729	.6227680	.7276990	.8137595	.8798712	.9257744	.9566798
27	.3011332	.4169834	.5370354	.6508192	.7501239	.8303895	.8907685	.9332166
28	.2290940	.3340649	.4504072	.5680256	.6772558	.7709987	.8457260	.9012991
29	.1684346	.2592361	.3666687	.4829322	.5976236	.7021325	.7904141	.8598623
30	.1196251	.1947060	.2898065	.3993583	.5144634	.6258247	.7255072	.8084557
31	.0820497	.1414646	.2220150	.3208276	.4313758	.5449289	.6526359	.7474396
32	.0543435	.0993909	.1647013	.2501500	.3518642	.4627886	.5742756	.6780739
33	.0347564	.0675129	.1182980	.1891621	.2789108	.3820225	.4934861	.6024664
34	.0214673	.0443333	.0822424	.1386564	.2146726	.3081105	.4135490	.5233770
35	.0128058	.0281435	.0553321	.0984815	.1603400	.2410613	.3375758	.4439092
36	.0073809	.0172729	.0360240	.0677595	.1161618	.1832149	.2681610	.3671478
37	.0041105	.0102506	.0226956	.0451569	.0816022	.1352008	.2071429	.2958115
38	.0022126	.0058831	.0138374	.0291467	.0555732	.0968296	.1555021	.2319844
39	.0011515	.0032660	.0081655	.0182208	.0366858	.0672871	.1133955	.1769641
40	.0005795	.0017542	.0046643	.0110328	.0234735	.0453595	.0802974	.1318409
41	.0002821	.0009118	.0025795	.0064711	.0145581	.0296598	.0552010	.0945883
42	.0001329	.0004588	.0013814	.0036771	.0087518	.0188110	.0368350	.0662307
43	.0000606	.0002235	.0007165	.0020245	.0051002	.0115716	.0238561	.0450445
44	.0000268	.0001054	.0003600	.0010802	.0028815	.0069045	.0149947	.0297521
45	.0000114	.0000482	.0001753	.0005586	.0015785	.0039962	.0091470	.0190831
46	.0000047	.0000213	.0000827	.0002801	.0008386	.0022438	.0054153	.0118853
47	.0000019	.0000092	.0000378	.0001361	.0004320	.0012283	.0031117	.0071678
48	.0000007	.0000038	.0000168	.0000642	.0002159	.0006461	.0017355	.0042809
49	.0000003	.0000015	.0000072	.0000293	.0001047	.0003314	.0009396	.0024069
50	.0000001	.0000006	.0000030	.0000130	.0000493	.0001650	.0004938	.0013388
51		.0000002	.0000012	.0000056	.0000225	.0000797	.0002520	.0007168
52		.0000001	.0000005	.0000023	.0000100	.0000374	.0001249	.0003744
53			.0000002	.0000009	.0000043	.0000170	.0000601	.0001899
54			.0000001	.0000004	.0000018	.0000075	.0000281	.0000936
55				.0000001	.0000007	.0000033	.0000127	.0000448
56				.0000001	.0000003	.0000013	.0000056	.0000208
57					.0000001	.0000005	.0000024	.0000094
58						.0000002	.0000010	.0000041
59						.0000001	.0000004	.0000018
60							.0000002	.0000007
61							.0000001	.0000003
								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999963	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999888	.9999964	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000
16	.9999681	.9999891	.9999964	.9999989	.9999997	.9999999	1.0000000	1.0000000
17	.9999155	.9999697	.9999896	.9999966	.9999989	.9999997	.9999999	1.0000000
18	.9997908	.9999312	.9999716	.9999902	.9999968	.9999990	.9999997	.9999999
19	.9995136	.9998075	.9999272	.9999736	.9999909	.9999970	.9999990	.9999997
20	.9989350	.9995574	.9998243	.9999333	.9999758	.9999916	.9999972	.9999991
21	.9977969	.9990389	.9995998	.9998408	.9999394	.9999780	.9999923	.9999974
22	.9956835	.9980039	.9991372	.9996403	.9998567	.9999454	.9999801	.9999931
23	.9919689	.9961435	.9983349	.9992893	.9996707	.9998730	.9999518	.9999828
24	.9857780	.9928402	.9965664	.9984300	.9993149	.9997145	.9998863	.9999567
25	.9759757	.9873271	.9936351	.9969536	.9986093	.9993940	.9997478	.9998997
26	.9612069	.9785718	.9887347	.9943584	.9973065	.9987738	.9994666	.9997785
27	.9400004	.9653206	.9809270	.9900108	.9950143	.9976270	.9989228	.9995326
28	.9109396	.9462799	.9690550	.9830601	.9911653	.9956075	.9979168	.9990371
29	.8728839	.9197599	.9518045	.9724410	.9849890	.9922073	.9961488	.9981778
30	.8252049	.8848697	.9278238	.9569191	.9755071	.9867301	.9931455	.9966827
31	.7679900	.8407383	.8958925	.9351883	.9615648	.9782796	.9883987	.9939888
32	.7021688	.7872189	.8551286	.9060197	.9419086	.9657791	.9807886	.9897089
33	.6294773	.7249302	.8051859	.8684446	.9153140	.9480339	.9695978	.9830383
34	.5519878	.6558955	.7464115	.8219581	.8807518	.9238336	.9536070	.9730508
35	.4737858	.5804875	.6799173	.7666430	.8375698	.8921100	.9316327	.9586729
36	.3966812	.5030768	.6075415	.7033470	.7856639	.8530995	.9035793	.9387681
37	.3238603	.4260446	.5316956	.6336043	.7255951	.8035153	.8655959	.9122143
38	.2575999	.3581635	.4551195	.5595680	.6586208	.7466774	.8208394	.8781117
39	.1994767	.2993524	.3805863	.4838000	.5866521	.6825745	.7666143	.8358793
40	.1502956	.2229262	.3106083	.4090033	.5119915	.6138362	.7054565	.7854898
41	.1101310	.1704804	.2471967	.3377386	.4372985	.5396110	.6381387	.7272645
42	.0784564	.1268849	.1917089	.2721713	.3651200	.4653652	.5665852	.6625065

$$P(r;n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 137

r	.25	.26	.27	.28	.29	.30	.31	.32
43	.0543235	.0918739	.1447994	.2138892	.2977340	.3926346	.4931059	.5928509
44	.0365511	.0646970	.1064679	.1638149	.2369255	.3237708	.4201714	.5204319
45	.0238951	.0448975	.0761798	.1222127	.1838640	.2607189	.3501678	.4476854
46	.0151764	.0294850	.0530280	.0887768	.1390732	.2046735	.2851698	.3748180
47	.0093640	.0190762	.0369031	.0627712	.1024835	.1570060	.2267647	.3101755
48	.0056128	.0119953	.0246379	.0431901	.0735473	.1172862	.1759601	.2494549
49	.0032682	.0073305	.0151328	.0289193	.0513866	.0853685	.1331688	.1958779
50	.0018487	.0043536	.0094191	.0188270	.0349460	.0605229	.0982389	.1500834
51	.0010160	.0025128	.0056997	.0119843	.0231274	.0417883	.0706837	.1118548
52	.0005424	.0014094	.0033530	.0073450	.0146925	.0280811	.0494591	.0811070
53	.0002814	.0007683	.0019175	.0043998	.0093207	.0183699	.0337332	.0580100
54	.0001418	.0004070	.0010660	.0025639	.0056857	.0116950	.0224080	.0401854
55	.0000695	.0002096	.0005761	.0014517	.0033705	.0072451	.0144830	.0270335
56	.0000331	.0001049	.0003027	.0007996	.0019434	.0043671	.0091139	.0177761
57	.0000153	.0000510	.0001546	.0004283	.0010898	.0025610	.0055818	.0113995
58	.0000069	.0000241	.0000768	.0002230	.0005944	.0014611	.0033867	.0070458
59	.0000030	.0000111	.0000371	.0001122	.0003153	.0008109	.0019293	.0042644
60	.0000013	.0000049	.0000174	.0000556	.0001627	.0004377	.0010886	.0025121
61	.0000005	.0000021	.0000079	.0000266	.0000816	.0002299	.0005976	.0014401
62	.0000002	.0000009	.0000035	.0000124	.0000398	.0001174	.0003198	.0008034
63	.0000001	.0000004	.0000015	.0000056	.0000187	.0000583	.0001656	.0004360
64		.0000001	.0000006	.0000025	.0000087	.0000282	.0000838	.0002303
65		.0000001	.0000003	.0000011	.0000039	.0000132	.0000418	.0001183
66			.0000001	.0000004	.0000017	.0000060	.0000197	.0000591
67				.0000002	.0000007	.0000027	.0000092	.0000287
68				.0000001	.0000003	.0000012	.0000041	.0000136
69					.0000001	.0000005	.0000018	.0000068
70						.0000002	.0000008	.0000088
71						.0000001	.0000003	.0000018
72							.0000001	.0000005
73							.0000001	.0000008
74								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999938	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
24	.9999842	.9999945	.9999982	.9999994	.9999998	.9999999	1.0000000	1.0000000
25	.9999619	.9999861	.9999952	.9999984	.9999995	.9999998	1.0000000	1.0000000
26	.9999121	.9999666	.9999879	.9999958	.9999986	.9999996	.9999999	1.0000000
27	.9998064	.9999234	.9999710	.9999825	.9999964	.9999988	.9999998	.9999999
28	.9995925	.9998318	.9999337	.9999750	.9999910	.9999969	.9999990	.9999997
29	.9991785	.9996464	.9998546	.9999429	.9999786	.9999931	.9999974	.9999991
30	.9984188	.9992874	.9996946	.9998750	.9999512	.9999818	.9999935	.9999978
31	.9970533	.9986816	.9993845	.9997376	.9998932	.9999585	.9999846	.9999948
32	.9947432	.9974378	.9988081	.9994708	.9997757	.9999092	.9999649	.9999871
33	.9909741	.9954177	.9977801	.9989736	.9995470	.9998098	.9999333	.9999706
34	.9850674	.9920166	.9960188	.9980838	.9991198	.9996141	.9998385	.9999388
35	.9761684	.9868890	.9931178	.9965527	.9983582	.9992484	.9996788	.9998641
36	.9638697	.9789790	.9885208	.9940183	.9970257	.9985087	.9993611	.9997846
37	.9452693	.9674337	.9815074	.9899791	.9948183	.9974432	.9987963	.9994594
38	.9210676	.9511984	.9711988	.9837771	.9912794	.9955867	.9978107	.9989778
39	.8896007	.9291888	.9565914	.9745963	.9858099	.9924356	.9961583	.9981388
40	.8504716	.9004070	.9366251	.9614673	.9776558	.9876263	.9934609	.9967030
41	.8031510	.8640808	.9102850	.9434215	.9659230	.9804046	.9892451	.9943678
42	.7480016	.8190075	.8767297	.9193796	.9496206	.9699329	.9828483	.9906839
43	.6859144	.7676768	.8354309	.8884686	.9277368	.9552688	.9735496	.9850709
44	.6183533	.7088442	.7863009	.8500545	.8993405	.9353983	.9603868	.9768036
45	.5472689	.6435463	.7297842	.8038981	.8677128	.9093879	.9424061	.9648890
46	.4746993	.5735578	.6668913	.7502283	.8304695	.8764415	.9186586	.9480068
47	.4036157	.5019014	.5991504	.6898566	.7896757	.8360555	.8882748	.9247188
48	.3354372	.4304603	.5285473	.6241059	.7469173	.7881301	.8502718	.8937787
49	.2728584	.3614547	.4572853	.5547896	.7033144	.7330544	.8038995	.8543856
50	.2166960	.2968873	.3875302	.4839095	.6604670	.6717426	.7538550	.8080986
51	.1680108	.2383462	.3214522	.4137680	.6103365	.6053049	.6943545	.7488105
52	.1271049	.1869010	.2607561	.3464630	.5544007	.5364558	.6301180	.6816197
53	.0937838	.1430706	.2067043	.2838500	.4937898	.4663617	.5621896	.6093481
54	.0674628	.1066586	.1600267	.2273654	.4305495	.3974688	.4925413	.5347698
55	.0473965	.0776462	.1209293	.1779414	.3668244	.3317743	.4238737	.4615518
56	.0323073	.0552816	.0891592	.1359071	.3047768	.2710171	.3564483	.3917754
57	.0214566	.0382639	.0641027	.1014310	.2459171	.2164897	.2930759	.3264709
58	.0139301	.0258065	.0449493	.0738089	.1916612	.1689981	.2370317	.2673898
59	.0087857	.0169547	.0307065	.0523779	.1434003	.1286495	.1869034	.2153498
60	.0053997	.0108490	.0204427	.0362366	.1026035	.0959008	.1439900	.1697004
61	.0032290	.0067608	.0132580	.0244332	.0696488	.0693827	.1083217	.1300718

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 137$$

x	.33	.34	.35	.36	.37	.38	.39	.40
62	.00187894	.00411011	.00837145	.01605524	.02899655	.04933374	.07953376	.12167789
63	.00110646	.00254280	.00515133	.01027736	.01912607	.03407780	.05697886	.09089936
64	.00065869	.00153923	.00308850	.00640039	.01248890	.02294439	.03980881	.06538094
65	.00038148	.00077789	.00179866	.00388671	.00780858	.01505536	.02771151	.04619184
66	.00021643	.00048241	.00102077	.00228972	.00488485	.00966264	.01800111	.03181192
67	.00000834	.00022247	.00056377	.00132115	.00299030	.00599909	.01164444	.02136611
68	.00004118	.00011588	.00030339	.00077400	.00186921	.00363323	.00733376	.01398118
69	.00001998	.00005581	.00015844	.00044032	.00094601	.00221442	.00445031	.00891138
70	.00000892	.00002883	.00008006	.00023138	.00065301	.00123233	.00269909	.00555345
71	.00000442	.00001334	.00003999	.00011103	.00028449	.00066891	.00156654	.00333464
72	.00000019	.00000628	.00001993	.00005553	.00014499	.00033750	.00088863	.00199699
73	.00000008	.00000288	.00000990	.00002770	.00007357	.00019866	.00048883	.00111806
74	.00000003	.00000133	.00000491	.00001388	.00003775	.00010859	.00028618	.00066893
75	.00000001	.00000059	.00000238	.00000689	.00001880	.00005512	.00015655	.00039414
76	.00000001	.00000028	.00000008	.00000027	.00000884	.00002850	.00000692	.00001801
77		.00000001	.00000003	.00000012	.00000038	.00000118	.00000341	.00000924
78			.00000001	.00000005	.00000017	.00000054	.00000164	.00000461
79			.00000001	.00000002	.00000007	.00000024	.00000076	.00000224
80				.00000001	.00000003	.00000011	.00000035	.00000105
81					.00000001	.00000004	.00000015	.00000040
82						.00000002	.00000006	.00000028
83						.00000001	.00000003	.00000009
84							.00000001	.00000004
85								.00000002
86								.00000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
26	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
27	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
28	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
29	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
30	.99999993	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
31	.99999982	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
32	.99999954	.99999985	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
33	.99999892	.99999962	.99999987	.99999996	.99999999	1.00000000	1.00000000	1.00000000
34	.99999754	.99999911	.99999969	.99999990	.99999997	.99999999	1.00000000	1.00000000
35	.99999462	.99999797	.99999927	.99999975	.99999992	.99999997	.99999999	1.00000000
36	.99998863	.99999553	.99999833	.99999940	.99999980	.99999993	.99999998	.99999999
37	.99997684	.99999054	.99999631	.99999863	.99999952	.99999984	.99999995	.99999998
38	.99995447	.99998067	.99999217	.99999698	.99999889	.99999961	.99999987	.99999996
39	.99991358	.99996186	.99998395	.99999357	.99999754	.99999911	.99999969	.99999990
40	.99984143	.99992728	.99994821	.99998675	.99999474	.99999801	.99999929	.99999976
41	.99971860	.99986593	.99993911	.99997364	.99998913	.99999574	.99999841	.99999943
42	.99951666	.99976063	.99989717	.99994927	.99997857	.99999114	.99999656	.99999873
43	.99919591	.99956888	.99979761	.99990550	.99995797	.99998220	.99999283	.99999725
44	.99870346	.99930857	.99964835	.99982952	.99992185	.99996536	.99998550	.99999423
45	.99797238	.99887804	.99940780	.99970198	.99985709	.99993473	.99997163	.99998827
46	.99698248	.99823371	.99903276	.99949488	.99974658	.99988080	.99994620	.99997690
47	.99546317	.99730055	.99846690	.99916944	.99957103	.99978892	.99990110	.99995592
48	.99349978	.99599221	.99764041	.99867435	.99926977	.99963737	.99982367	.99991841
49	.99094154	.99421580	.99647136	.99794498	.99885888	.99939532	.99964493	.99985349
50	.98771256	.99187934	.99486951	.99690408	.99821706	.99902081	.99948755	.99974465
51	.98376335	.98890156	.99274270	.99546467	.99729370	.99845932	.99916390	.99956783
52	.97908178	.98522313	.99000873	.99353537	.99600494	.99764339	.99867428	.99928938
53	.97370133	.98081779	.98659098	.99102835	.99426106	.99649188	.99795620	.99886431
54	.96770490	.97570163	.98245259	.98786923	.99197278	.99493344	.99693493	.99833503
55	.96128287	.96993861	.97761145	.98400809	.98906043	.99284345	.99552614	.99753144
56	.95442524	.96364083	.97209215	.97942987	.98546451	.99016729	.99364088	.99607274
57	.94750827	.95696302	.96599533	.97416359	.98115642	.98690041	.99119870	.99437141
58	.94067769	.95009129	.95945941	.96828145	.97613748	.98279104	.98810764	.99213972
59	.93413056	.94322774	.95265856	.96190780	.97049477	.97804491	.98433411	.98939830
60	.92803858	.93657278	.94578896	.95520235	.96430204	.97263139	.97985341	.98618636
61	.92253515	.93030793	.93905194	.94835322	.95771583	.96663643	.97468793	.98157203
62	.91770761	.92458139	.93263655	.94156023	.95091246	.96019011	.96890573	.97666150
63	.91359535	.91940821	.92670404	.93501766	.94408974	.95345884	.96262026	.97110518
64	.91019337	.91511616	.92137618	.92889791	.93744424	.94663258	.95596467	.96499993
65	.90745989	.91144714	.91672801	.92333823	.93115744	.93990904	.94918083	.95848251
66	.90538656	.90846326	.91279159	.91843328	.92538063	.93347666	.94240464	.95172661
67	.90370931	.90610609	.90955130	.91432717	.92028444	.92749910	.93584930	.94492347

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 157$$

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
68	.0351836	.0489786	.0696094	.1078590	.1575300	.2210310	.2960000	.3806573
69	.0136641	.0194890	.0494933	.0784399	.1198860	.1737131	.2406543	.3194583
70	.0107437	.0197950	.0343180	.0566898	.0890789	.1334053	.1907848	.2610814
71	.0047471	.0128566	.0231971	.0397061	.0645934	.1000500	.1478845	.2087401
72	.0041263	.0081631	.0158803	.0271139	.0456864	.0732371	.1118739	.1631470
73	.0027569	.0050475	.0090056	.0180445	.0315096	.0522998	.0826500	.1245663
74	.0014838	.0030387	.0061282	.0116995	.0211802	.0364189	.0595744	.0922597
75	.0008030	.0017806	.0037389	.0073879	.0138709	.0247189	.0418765	.0675485
76	.0004406	.0010134	.0023085	.0045428	.0088474	.0163469	.0286933	.0479174
77	.0003351	.0005633	.0013729	.0027182	.0054944	.0105289	.0191560	.0331366
78	.0001880	.0003039	.0007137	.0015820	.0033211	.0066986	.0124559	.0218779
79	.0000616	.0001595	.0003893	.0008966	.0019838	.0040299	.0078054	.0146531
80	.0000302	.0000813	.0002063	.0004939	.0011174	.0023931	.0048584	.0095688
81	.0000144	.0000403	.0001064	.0002645	.0006217	.0013943	.0029183	.0058814
82	.0000067	.0000194	.0000533	.0001377	.0003362	.0007763	.0016978	.0035313
83	.0000030	.0000091	.0000259	.0000697	.0001767	.0004238	.0009623	.0020714
84	.0000013	.0000041	.0000123	.0000342	.0000902	.0002248	.0005301	.0011845
85	.0000006	.0000018	.0000056	.0000163	.0000448	.0001159	.0002837	.0006582
86	.0000002	.0000008	.0000025	.0000076	.0000216	.0000580	.0001475	.0003583
87	.0000001	.0000003	.0000011	.0000034	.0000101	.0000282	.0000744	.0001863
88		.0000001	.0000005	.0000015	.0000046	.0000133	.0000365	.0000948
89		.0000001	.0000002	.0000006	.0000020	.0000061	.0000173	.0000460
90			.0000001	.0000003	.0000009	.0000027	.0000080	.0000224
91				.0000001	.0000004	.0000012	.0000036	.0000104
92					.0000001	.0000005	.0000015	.0000047
93					.0000001	.0000002	.0000006	.0000020
94						.0000001	.0000002	.0000009
95							.0000001	.0000004
96								.0000001
97								.0000001

r \ p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	.9999999	1.0000000
39	.9999997	.9999999
40	.9999992	.9999998
41	.9999981	.9999994
42	.9999956	.9999985
43	.9999900	.9999965
44	.9999782	.9999922
45	.9999539	.9999838
46	.9999057	.9999675
47	.9998133	.9999348
48	.9996410	.9998699
49	.9993308	.9997475
50	.9987894	.9994545
51	.9978741	.9990057
52	.9963738	.9982400
53	.9939898	.9969737
54	.9903164	.9949439
55	.9848264	.9917039
56	.9768662	.9870166
57	.9656674	.9800359
58	.9503774	.9701160
59	.9301148	.9564334
60	.9040475	.9381126
61	.8714889	.9143955
62	.8320081	.8843314
63	.7854970	.8475786

$$B(s,n,p) = \sum_{r=s}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 137

s	.49	.50
64	.7383050	.8035062
65	.6731136	.7827706
66	.6094519	.6958079
67	.5426215	.6336580
68	.4745784	.5677975
69	.4072809	.5000000
70	.3426236	.4322025
71	.2838748	.3663420
72	.2275601	.3041931
73	.1793719	.2472818
74	.1391472	.1964936
75	.1058915	.1526214
76	.0762453	.1157606
77	.0545708	.0857045
78	.0380089	.0618074
79	.0259033	.0435666
80	.0171467	.0298840
81	.0110541	.0199641
82	.0069349	.0130834
83	.0042321	.0083161
84	.0025113	.0050571
85	.0014484	.0030263
86	.0008117	.0017600
87	.0004418	.0009943
88	.0002334	.0005455
89	.0001197	.0002908
90	.0000596	.0001501
91	.0000287	.0000752
92	.0000134	.0000365
93	.0000061	.0000172
94	.0000027	.0000078
95	.0000011	.0000035
96	.0000005	.0000015
97	.0000002	.0000006
98	.0000001	.0000002
99		.0000001

$$I(a,b,p) = \sum_{r=a}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 150

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.7801689	.9304848	.9880549	.9944837	.9991569	.9998043	.9999533	.9999899
2	.4019052	.7651811	.9211868	.9788602	.9936337	.9984908	.9994906	.9998698
3	.1609390	.5888008	.7881334	.9171684	.9709577	.9905488	.9970948	.9991492
4	.0505976	.3966888	.5966697	.8063061	.9188658	.9687299	.9887800	.9963145
5	.0139812	.2442183	.3988966	.6804061	.8847888	.9417406	.9681530	.9879938
6	.0037988	.0997634	.2349785	.4763177	.6927491	.8413590	.9268625	.9686010
7	.0008182	.0521607	.1283916	.3135277	.5307805	.7876277	.8563695	.9318819
8	.0000639	.0068580	.0670498	.1891927	.3859695	.5907381	.7571665	.8699294
9	.0000180	.0019445	.0338566	.1089954	.2542706	.4476533	.6348968	.7826548
10	.0000015	.0004961	.0090880	.0511174	.1541486	.3157539	.5019619	.6730331
11	.0000008	.0001148	.0031119	.0218330	.0841711	.2071109	.3788869	.5500669
12		.0000243	.0009827	.0097132	.0445309	.1264315	.2659360	.4256406
13		.0000047	.0002858	.0037814	.0213490	.0719300	.1697808	.3111563
14		.0000008	.0000769	.0013438	.0095194	.0382188	.1040819	.2146891
15		.0000001	.0000192	.0004461	.0039603	.0189969	.0599898	.1397018
16			.0000045	.0001395	.0015416	.0088566	.0334574	.0854400
17			.0000010	.0000407	.0005630	.0038813	.0145611	.0498350
18			.0000002	.0000118	.0001934	.0016028	.0079744	.0273664
19				.0000029	.0000646	.0006843	.0034898	.0148395
20				.0000007	.0000198	.0002760	.0015645	.0078195
21				.0000002	.0000056	.0000903	.0006393	.0038875
22					.0000015	.0000866	.0004483	.0014640
23					.0000004	.0000084	.0000917	.0006007
24					.0000001	.0000025	.0000323	.0002509
25						.0000007	.0000108	.0000968
26						.0000002	.0000035	.0000357
27						.0000001	.0000011	.0000126
28							.0000003	.0000042
29							.0000001	.0000014
30								.0000004
31								.0000001

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999978	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999674	.9999931	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000
3	.9997615	.9999355	.9999838	.9999957	.9999990	.9999997	.9999999	1.0000000
4	.9986383	.9996506	.9998998	.9999720	.9999985	.9999981	.9999995	.9999999
5	.9957546	.9985881	.9995498	.9998630	.9999600	.9999888	.9999970	.9999998
6	.9878887	.9954005	.9983898	.9994644	.9998300	.9999483	.9999849	.9999968
7	.9696890	.9875643	.9958134	.9983897	.9993991	.9998088	.9999377	.9999812
8	.9362882	.9711455	.9896104	.9951617	.9981859	.9993537	.9997806	.9999388
9	.8888015	.9441784	.9788975	.9880448	.9953149	.9981581	.9993847	.9997855
10	.8049376	.8933380	.9600790	.9746186	.9888038	.9953468	.9981698	.9993163
11	.7063685	.8246077	.9034317	.9506504	.9764460	.9894431	.9955360	.9982121
12	.5989174	.7387572	.8420962	.9126180	.9549587	.9778597	.9901876	.9957650
13	.4741740	.6318755	.7618663	.8577302	.9209761	.9589930	.9820066	.9909320
14	.3603490	.5187566	.6657566	.7851863	.8717650	.9305916	.9697498	.9817249
15	.2598364	.4071318	.5596967	.6948616	.8061071	.8944048	.9535380	.9668366
16	.1776590	.3046009	.4513328	.5973957	.7250032	.8524909	.8956162	.9418486
17	.1151792	.2170830	.3468719	.4929218	.6318366	.7850248	.8219424	.9044377
18	.0704337	.1471996	.2570477	.3907793	.5319338	.6938647	.7373446	.8579287
19	.0413518	.0950301	.1811782	.2971498	.4318926	.5884494	.6487170	.7940190
20	.0889383	.0584869	.1219436	.2165109	.3368778	.4706337	.5688696	.7195264
21	.0120988	.0342282	.0783873	.1510839	.2526765	.3758891	.4878510	.6344083
22	.0060758	.0191200	.0481379	.1009515	.1819792	.2893334	.4139284	.5431997
23	.0029081	.0101984	.0288548	.0645951	.1257983	.2141985	.3457817	.4508065
24	.0013880	.0051895	.0158607	.0395912	.0834588	.1538698	.2847389	.3620479
25	.0005793	.0025839	.0085806	.0232534	.0531440	.1045571	.2309902	.2810301
26	.0002416	.0011764	.0043837	.0130948	.0324881	.0686668	.1824070	.2106753
27	.0000964	.0005246	.0021615	.0070733	.0190737	.0436293	.1386638	.1528486
28	.0000369	.0002243	.0010322	.0036675	.0107569	.0265870	.0996983	.1064088
29	.0000135	.0000920	.0004640	.0018264	.0058335	.0155888	.0657848	.0716495
30	.0000048	.0000368	.0002023	.0008741	.0030419	.0087976	.0416898	.0465407
31	.0000016	.0000137	.0000846	.0004023	.0015262	.0047807	.0256909	.0291639
32	.0000005	.0000050	.0000342	.0001772	.0007373	.0025086	.0151584	.0176397
33	.0000002	.0000017	.0000133	.0000760	.0003430	.0012846	.0086937	.0102884
34		.0000006	.0000050	.0000312	.0001538	.0006142	.0048438	.0057950
35		.0000002	.0000018	.0000124	.0000663	.0002882	.0026388	.0031317
36		.0000001	.0000006	.0000047	.0000277	.0001305	.0013859	.0016557
37			.0000002	.0000017	.0000118	.0000571	.0007389	.0008404
38			.0000001	.0000006	.0000043	.0000241	.0003890	.0004123
39				.0000002	.0000016	.0000098	.0001981	.0001956
40				.0000001	.0000006	.0000039	.0000985	.0000897
41					.0000002	.0000015	.0000465	.0000398
42					.0000001	.0000005	.0000214	.0000171
43						.0000002	.0000093	.0000071
44						.0000001	.0000035	.0000029
45							.0000013	.0000011
46							.0000004	.0000004
47							.0000001	.0000002
48								.0000001

N	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999988	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999945	.9999985	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999779	.9999934	.9999981	.9999995	.9999999	1.0000000	1.0000000	1.0000000
9	.9999280	.9999751	.9999924	.9999978	.9999994	.9999999	1.0000000	1.0000000
10	.9997865	.9999178	.9999730	.9999916	.9999978	.9999993	.9999998	.9999999

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 158

r	.17	.18	.19	.20	.21	.22	.23	.24
11	.9993195	.9997532	.9999145	.9999716	.9999910	.9999972	.9999992	.9999998
12	.9982779	.9993341	.9997546	.9999136	.9999709	.9999906	.9999971	.9999991
13	.9960199	.9983607	.9993577	.9997601	.9999144	.9999708	.9999904	.9999970
14	.9915375	.9962897	.9984555	.9993881	.9997688	.9999165	.9999712	.9999905
15	.9833404	.9922306	.9965658	.9985577	.9994232	.9997800	.9999198	.9999720
16	.9694613	.9848649	.9929016	.9968416	.9986639	.9994615	.9997929	.9999239
17	.9476079	.9724353	.9862940	.9935435	.9971121	.9987711	.9995017	.9998071
18	.9154861	.9528546	.9751711	.9876263	.9941819	.9973736	.9988772	.9995424
19	.8712594	.9239611	.9576324	.9776820	.9880622	.9947240	.9974235	.9989805
20	.8140481	.8839034	.9316490	.9619806	.9779814	.9900039	.9943582	.9978598
21	.7443260	.8315842	.8953845	.9386848	.9659352	.9820886	.9890544	.9957541
22	.6640836	.7670510	.8475862	.9058154	.9449548	.9695886	.9839987	.9920175
23	.5766783	.6917146	.7879591	.8621939	.9152949	.9506975	.9747904	.9857424
24	.4863885	.6083093	.7174178	.8071928	.8755307	.9239099	.9559052	.9757480
25	.3977758	.5205812	.6381316	.7413061	.8248816	.8877065	.9317378	.9606250
26	.3150136	.4327675	.5533246	.6661952	.7634873	.8411435	.8998199	.9388478
27	.2413407	.3489903	.4668666	.5845843	.6925581	.7840647	.8600858	.9089593
28	.1787467	.2727053	.3827410	.4999509	.6143464	.7172831	.8031358	.8698071
29	.1279227	.2063214	.3045131	.4160730	.5319271	.6426124	.7404358	.8207933
30	.0884375	.1510480	.2349106	.3365337	.4488242	.5627260	.6693963	.7620835
31	.0590536	.1069642	.1755909	.2642855	.3685616	.4808595	.5922985	.6947216
32	.0380862	.0732509	.1271147	.2013597	.2942310	.4004150	.5130677	.6206122
33	.0237264	.0485056	.0890929	.1487576	.2301626	.3245471	.4319346	.5423585
34	.0142791	.0310577	.0604451	.1065165	.1717498	.2558121	.3550497	.4629815
35	.0083033	.0192297	.0396925	.0739039	.1254392	.1959411	.2841264	.3855705
36	.0046665	.0115146	.0252280	.0496774	.0886597	.1457635	.2211771	.3129322
37	.0025352	.0066692	.0155205	.0323487	.0610393	.1052711	.1673795	.2473029
38	.0013318	.0037371	.0092431	.0204060	.0406522	.0737864	.1230800	.1901690
39	.0006767	.0020263	.0053295	.0124704	.0262481	.0501035	.0879100	.1422545
40	.0003387	.0010635	.0029756	.0073834	.0164303	.0331137	.0609732	.1033849
41	.0001583	.0005403	.0016090	.0042359	.0099711	.0211977	.0410592	.0730365
42	.0000729	.0002658	.0008428	.0023550	.0058670	.0131642	.0268413	.0501393
43	.0000325	.0001267	.0004278	.0012691	.0033474	.0079312	.0170328	.0334223
44	.0000140	.0000585	.0002104	.0006629	.0018521	.0046360	.0104920	.0216436
45	.0000059	.0000262	.0001003	.0003358	.0009940	.0026293	.0062736	.0136127
46	.0000024	.0000113	.0000464	.0001649	.0005174	.0014470	.0036415	.0083158
47	.0000009	.0000048	.0000208	.0000786	.0002613	.0007728	.0020520	.0049330
48	.0000004	.0000019	.0000090	.0000363	.0001281	.0004006	.0011226	.0028483
49	.0000001	.0000008	.0000038	.0000163	.0000609	.0002016	.0005964	.0015906
50		.0000003	.0000016	.0000071	.0000281	.0000985	.0003076	.0008646
51		.0000001	.0000006	.0000030	.0000126	.0000467	.0001541	.0004566
52			.0000002	.0000012	.0000055	.0000215	.0000750	.0002348
53			.0000001	.0000005	.0000023	.0000096	.0000354	.0001167
54				.0000002	.0000009	.0000042	.0000163	.0000565
55				.0000001	.0000004	.0000018	.0000073	.0000266
56					.0000001	.0000007	.0000031	.0000122
57					.0000001	.0000003	.0000013	.0000054
58						.0000001	.0000005	.0000023
59							.0000002	.0000010
60							.0000001	.0000004
61								.0000002
62								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999970	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999907	.9999970	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
16	.9999733	.9999910	.9999971	.9999991	.9999997	.9999999	1.0000000	1.0000000
17	.9999287	.9999748	.9999914	.9999972	.9999991	.9999997	.9999999	1.0000000
18	.9998220	.9999338	.9999764	.9999920	.9999974	.9999993	.9999998	.9999999
19	.9995839	.9998371	.9999392	.9999783	.9999936	.9999976	.9999992	.9999998
20	.9990796	.9996234	.9998521	.9999446	.9999802	.9999938	.9999978	.9999993
21	.9980015	.9991737	.9996604	.9998667	.9999500	.9999820	.9999938	.9999980
22	.9963119	.9983878	.9992621	.9996965	.9998807	.9999588	.9999839	.9999948
23	.9928976	.9966324	.9984785	.9993444	.9997303	.9998960	.9999602	.9999857
24	.9873257	.9936990	.9970169	.9986538	.9994204	.9997618	.9999068	.9999649
25	.9784263	.9887605	.9944266	.9973670	.9988139	.9994902	.9997908	.9999160
26	.9648991	.9808488	.9900578	.9950850	.9976843	.9989594	.9995537	.9998173
27	.9453020	.9687659	.9830350	.9912281	.9956791	.9979708	.9990909	.9996113
28	.9182048	.9511565	.9722604	.9850063	.9922815	.9961133	.9982284	.9992093
29	.8823978	.9266291	.9564622	.9754143	.9867801	.9932873	.9966983	.9984528
30	.8371246	.8939411	.9342984	.9618658	.9782569	.9883732	.9940744	.9971804
31	.7828937	.8522124	.9043130	.9418731	.9656081	.9808148	.9898012	.9948318
32	.7186191	.8011339	.8661349	.9141870	.9476089	.9695293	.9831186	.9910783
33	.6476485	.7411253	.8186705	.8789656	.9230864	.9533566	.9730645	.9851739
34	.5716598	.6734095	.7628806	.8349686	.8907744	.9310934	.9585639	.9768464
35	.4934360	.5999154	.6978708	.7821290	.8500920	.9016871	.9384447	.9632736
36	.4159573	.5231958	.6270830	.7210699	.8007164	.8641086	.9115858	.9451335
37	.3420655	.4460730	.5521740	.6531322	.7430150	.8180905	.8770607	.9207096
38	.2741650	.3713786	.4757961	.5803982	.6780433	.7639888	.8348999	.8890848
39	.2140075	.3016133	.4007103	.5050150	.6075088	.7018084	.7838381	.8493937
40	.1625909	.2386470	.3295023	.4299463	.5336373	.6337877	.7244184	.8015737
41	.1201721	.1841163	.2643178	.3576927	.4589595	.5615785	.6590072	.7488774

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 138

c \ p	.25	.26	.27	.28	.29	.30	.31	.32
42	.0863751	.1382198	.2066906	.2905308	.3860517	.4876389	.5887668	.6837890
43	.0603567	.1009768	.1574650	.2302088	.3172759	.4144538	.5158845	.6151407
44	.0409948	.0717630	.1166174	.1778357	.2548600	.3444895	.4427811	.5436059
45	.0270591	.0496014	.0843576	.1338613	.1998519	.2796343	.3718689	.4709836
46	.0173561	.0333362	.0592790	.0981389	.1520685	.2216271	.3053187	.3994764
47	.0108171	.0217825	.0405261	.0700528	.1130945	.1713663	.2448701	.3315011
48	.0065506	.0138363	.0269492	.0486728	.0819388	.1292028	.1917096	.2688855
49	.0038543	.0085434	.0174291	.0329100	.0576132	.0949438	.1464300	.2130226
50	.0022036	.0051276	.0109618	.0216309	.0397136	.0679766	.1090653	.1647377
51	.0012241	.0029914	.0067039	.0138571	.0265548	.0474045	.0791844	.1248920
52	.0006608	.0016963	.0039866	.0086272	.0172806	.0321915	.0560802	.0914503
53	.0003466	.0009350	.0023051	.0052845	.0109489	.0212833	.0386088	.0655930
54	.0001767	.0005009	.0012959	.0030772	.0067425	.0135975	.0259117	.0458485
55	.0000875	.0002609	.0007084	.0017628	.0040419	.0083801	.0169379	.0313289
56	.0000422	.0001321	.0003765	.0009822	.0023572	.0052305	.0107764	.0207113
57	.0000197	.0000650	.0001946	.0005322	.0013374	.0031029	.0066768	.0133796
58	.0000090	.0000311	.0000978	.0002805	.0007381	.0017911	.0040858	.0084168
59	.0000040	.0000145	.0000478	.0001437	.0003962	.0010069	.0023625	.0051548
60	.0000017	.0000065	.0000227	.0000716	.0002069	.0005497	.0013492	.0030728
61	.0000007	.0000029	.0000105	.0000347	.0001051	.0002922	.0007498	.0017838
62	.0000003	.0000012	.0000047	.0000164	.0000519	.0001511	.0004055	.0010071
63	.0000001	.0000005	.0000021	.0000075	.0000250	.0000760	.0002134	.0005536
64		.0000002	.0000009	.0000033	.0000117	.0000372	.0001092	.0002961
65		.0000001	.0000004	.0000015	.0000053	.0000177	.0000544	.0001541
66			.0000001	.0000006	.0000023	.0000082	.0000264	.0000781
67			.0000001	.0000003	.0000010	.0000037	.0000124	.0000385
68				.0000001	.0000004	.0000016	.0000057	.0000184
69					.0000002	.0000007	.0000025	.0000086
70					.0000001	.0000003	.0000011	.0000039
71						.0000001	.0000005	.0000017
72							.0000002	.0000007
73							.0000001	.0000003
74								.0000001

c \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999982	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999951	.9999984	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999874	.9999957	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000
25	.9999693	.9999890	.9999962	.9999988	.9999996	.9999999	1.0000000	1.0000000
26	.9999285	.9999733	.9999904	.9999967	.9999989	.9999997	.9999999	1.0000000
27	.9998413	.9999381	.9999769	.9999918	.9999972	.9999991	.9999997	.9999999
28	.9996631	.9998629	.9999467	.9999802	.9999930	.9999976	.9999998	.9999998
29	.9993151	.9997094	.9998823	.9999548	.9999832	.9999941	.9999980	.9999994
30	.9986651	.9994094	.9997506	.9998995	.9999613	.9999858	.9999950	.9999983
31	.9975017	.9988480	.9994931	.9997871	.9999146	.9999673	.9999881	.9999958
32	.9955055	.9978403	.9990099	.9995668	.9998191	.9999279	.9999726	.9999901
33	.9922179	.9961046	.9981399	.9991526	.9996316	.9998472	.9999395	.9999778
34	.9870166	.9932324	.9966352	.9984041	.9992778	.9996082	.9998716	.9999495
35	.9791051	.9886630	.9941331	.9971039	.9986362	.9993874	.9997375	.9998887
36	.9675263	.9816684	.9901297	.9949307	.9975165	.9988394	.9994827	.9997801
37	.9512093	.9713591	.9839621	.9914333	.9956350	.9978785	.9990166	.9995659
38	.9290541	.9567184	.9748068	.9860098	.9925888	.9962550	.9981951	.9991704
39	.9000504	.9366720	.9617040	.9779014	.9878336	.9936102	.9966991	.9984708
40	.8634212	.9101928	.9436133	.9662066	.9806728	.9894536	.9945106	.9973749
41	.8187691	.8764317	.9195040	.9499252	.9702641	.9831489	.9908893	.9953017
42	.7662009	.8348605	.8884741	.9280347	.9556525	.9739122	.9853353	.9921574
43	.7064032	.7854009	.8499053	.8995266	.9358334	.9606375	.9771859	.9873161
44	.6406485	.7285171	.8034964	.8638836	.9098469	.9429468	.9655803	.9801105
45	.5707228	.6652476	.7495651	.8205106	.8768951	.9192719	.9494198	.9697388
46	.4987793	.5971637	.6889038	.7693473	.8364695	.8889611	.9279173	.9558983
47	.4271393	.5262541	.6228662	.7115904	.7884594	.8514088	.9001834	.9358880
48	.3580701	.4547502	.5532619	.6477762	.7338879	.8063418	.8653398	.9104837
49	.2935754	.3849166	.4822075	.5797243	.6718474	.7539833	.8231790	.8783186
50	.2352296	.3188402	.4119340	.5094155	.6055705	.6950418	.7736694	.8389996
51	.1840769	.2582502	.3445795	.4390139	.5366848	.6307378	.7173857	.7923445
	.1406038	.2043928	.2819997	.3706828	.4660718	.5627381	.6551684	.7386760
	.1047797	.1579730	.2256224	.3063907	.3970805	.4939978	.5866805	.6780149
54	.0761487	.1191707	.1763639	.2476999	.3313332	.4286444	.5197048	.6140396
56	.0539513	.0877068	.1346134	.1957340	.2705587	.3567359	.4508881	.5461064
56	.0372536	.0629511	.1002787	.1510906	.2160344	.2941048	.3885068	.4769177
57	.0250641	.0440497	.0728770	.1138712	.1685782	.2372102	.3308768	.4085887
58	.0164271	.0300420	.0516509	.0837528	.1284829	.1870449	.2798009	.3439863
59	.0104861	.0199643	.0356890	.0600931	.0955968	.1441060	.2364534	.2849416
60	.0065184	.0129250	.0240350	.0420475	.0694083	.1084313	.1997868	.2317601

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 138

k	.33	.34	.35	.36	.37	.38	.39	.40
61	.0039453	.0081503	.0157726	.0286824	.0491578	.0796842	.1233829	.1733829
62	.0023248	.0050051	.0100837	.0189695	.0339491	.0570555	.0907659	.1370388
63	.0013335	.0029929	.0063794	.0123540	.0228865	.0398766	.0657765	.1038483
64	.0007445	.0017424	.0038082	.0077970	.0149275	.0271749	.0465046	.0783810
65	.0004046	.0009875	.0022489	.0047932	.0095886	.0180519	.0320484	.0538718
66	.0002139	.0005447	.0012930	.0028695	.0059721	.0116862	.0215855	.0378688
67	.0001101	.0002925	.0007336	.0016728	.0036288	.0073709	.0141835	.0255473
68	.0000551	.0001528	.0003942	.0009493	.0021401	.0045286	.0090178	.0169358
69	.0000268	.0000777	.0002090	.0005244	.0012309	.0027097	.0056086	.0109404
70	.0000127	.0000384	.0001078	.0002820	.0006892	.0015787	.0033977	.0068860
71	.0000059	.0000185	.0000541	.0001475	.0003756	.0008955	.0020043	.0042816
72	.0000026	.0000087	.0000264	.0000751	.0001992	.0004944	.0011511	.0025805
73	.0000011	.0000039	.0000126	.0000372	.0001038	.0002656	.0006436	.0014651
74	.0000005	.0000017	.0000058	.0000179	.0000516	.0001389	.0003501	.0008090
75	.0000002	.0000008	.0000026	.0000084	.0000252	.0000706	.0001884	.0004568
76	.0000001	.0000003	.0000011	.0000038	.0000120	.0000350	.0000955	.0002446
77		.0000001	.0000005	.0000017	.0000055	.0000168	.0000478	.0001275
78		.0000001	.0000002	.0000007	.0000025	.0000079	.0000233	.0000646
79			.0000001	.0000003	.0000011	.0000036	.0000110	.0000319
80				.0000001	.0000005	.0000016	.0000051	.0000153
81					.0000002	.0000007	.0000023	.0000071
82					.0000001	.0000003	.0000010	.0000038
83						.0000001	.0000004	.0000014
84							.0000002	.0000006
85							.0000001	.0000003
86								.0000001

k	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999966	.9999989	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999918	.9999972	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
34	.9999811	.9999932	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000
35	.9999582	.9999845	.9999945	.9999981	.9999994	.9999998	.9999999	1.0000000
36	.9999108	.9999655	.9999873	.9999955	.9999985	.9999995	.9999999	1.0000000
37	.9998167	.9999264	.9999718	.9999897	.9999964	.9999988	.9999996	.9999999
38	.9996364	.9998481	.9999395	.9999771	.9999917	.9999972	.9999991	.9999997
39	.9993034	.9996976	.9998749	.9999507	.9999815	.9999934	.9999978	.9999993
40	.9987101	.9994180	.9997498	.9998975	.9999600	.9999852	.9999948	.9999988
41	.9976896	.9989170	.9995162	.9997941	.9999166	.9999678	.9999888	.9999969
42	.9959946	.9980497	.9990950	.9995999	.9998316	.9999335	.9999743	.9999907
43	.9932742	.9965994	.9983612	.9992476	.9996710	.9998631	.9999486	.9999796
44	.9890537	.9942546	.9971253	.9986295	.9993777	.9997311	.9998894	.9999568
45	.9827212	.9905886	.9951123	.9975810	.9988596	.9994868	.9997815	.9999113
46	.9735291	.9850433	.9919402	.9958600	.9979741	.9990361	.9995815	.9998836
47	.9606146	.9769248	.9871022	.9931263	.9965093	.9983118	.9992838	.9996599
48	.9430477	.9654171	.9799580	.9889819	.9941654	.9970708	.9986007	.9992641
49	.9199042	.9496189	.9697405	.9826590	.9905245	.9950666	.9975844	.9984468
50	.8903644	.9286065	.9555831	.9736207	.9850561	.9919308	.9958502	.9974689
51	.8536252	.9015223	.9365723	.9609801	.9770981	.9871761	.9931602	.9955870
52	.8100122	.8676807	.9110263	.9438426	.9658488	.9801878	.9889440	.9924303
53	.7590731	.8268803	.8805932	.9213144	.9504581	.9708865	.9828370	.9876824
54	.7016343	.7795002	.8423609	.8935925	.9300251	.9564584	.9741493	.9803708
55	.6388050	.7235908	.7969615	.8570699	.9037099	.9379970	.9618887	.9776816
56	.5721227	.6628590	.7446545	.8144489	.8708267	.9139786	.9448698	.9667491
57	.5034423	.5976770	.6861697	.7648019	.8309506	.8836537	.9234338	.9511808
58	.4347823	.5297742	.6226986	.7086915	.7840150	.8464918	.8988768	.9301093
59	.3681488	.4611043	.5558293	.6471281	.7303845	.8028813	.8610767	.9066818
60	.3053629	.3936786	.4874289	.5815275	.6708877	.7532161	.8198934	.8747809
61	.2479156	.3293917	.4194886	.5136684	.6067930	.6939411	.7711871	.8389491
62	.1968690	.2698654	.3539516	.4454914	.5397371	.6318548	.7168337	.7901851
63	.1528138	.2163315	.2925502	.3789639	.4715997	.5685588	.6587443	.7377788
64	.1158818	.1695662	.2366716	.3159060	.4043471	.5057866	.5988340	.6793014
65	.0858061	.1298813	.1872724	.2578449	.3399658	.4450187	.5387883	.6181859
66	.0620122	.0971649	.1448463	.2059090	.2798018	.3883856	.4808948	.5596945

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 130

c	.41	.42	.43	.44	.45	.46	.47	.48
67	.0437238	.0709510	.1094462	.1607742	.2254472	.3034878	.3893031	.4818898
68	.0300665	.0505697	.0807479	.1226646	.1776564	.2488526	.3288434	.4146581
69	.0201571	.0351521	.0581432	.0914003	.1368298	.1954793	.2670881	.3490081
70	.0131711	.0238259	.0408434	.0664795	.1029421	.1519469	.2148838	.2890994
71	.0083857	.0157413	.0279791	.0471787	.0756119	.1153938	.1680159	.2336639
72	.0052009	.0101343	.0186845	.0328544	.0541956	.0855710	.1287707	.1859317
73	.0031413	.0063561	.0121597	.0223351	.0378901	.0619310	.0953858	.1450861
74	.0018474	.0038823	.0077095	.0148913	.0258284	.0437241	.0701099	.1080798
75	.0010575	.0023090	.0047606	.0097850	.0171601	.0301009	.0501946	.0794983
76	.0005892	.0013360	.0028623	.0063943	.0111079	.0201980	.0348894	.0573389
77	.0003194	.0007531	.0016752	.0040864	.0070032	.0132052	.0236365	.0408314
78	.0001684	.0004129	.0009541	.0025688	.0042991	.0084087	.0156049	.0281516
79	.0000864	.0002201	.0005287	.0015985	.0025688	.0052134	.0100331	.0183370
80	.0000431	.0001142	.0002850	.0006711	.0014936	.0031461	.0062811	.0119019
81	.0000209	.0000576	.0001493	.0003655	.0008448	.0018473	.0038869	.0075210
82	.0000098	.0000282	.0000761	.0001935	.0004647	.0010581	.0023686	.0046284
83	.0000045	.0000134	.0000377	.0000996	.0002485	.0005860	.0013980	.0027674
84	.0000020	.0000062	.0000181	.0000498	.0001292	.0003164	.0007333	.0016108
85	.0000009	.0000028	.0000085	.0000242	.0000652	.0001660	.0003998	.0009109
86	.0000004	.0000012	.0000038	.0000114	.0000320	.0000846	.0002115	.0005087
87	.0000001	.0000005	.0000017	.0000052	.0000152	.0000419	.0001088	.0002674
88	.0000001	.0000002	.0000007	.0000023	.0000070	.0000201	.0000543	.0001387
89		.0000001	.0000003	.0000010	.0000032	.0000094	.0000263	.0000698
90			.0000001	.0000004	.0000014	.0000042	.0000124	.0000341
91				.0000002	.0000006	.0000019	.0000056	.0000148
92				.0000001	.0000002	.0000008	.0000025	.0000074
93					.0000001	.0000003	.0000011	.0000033
94						.0000001	.0000004	.0000014
95						.0000001	.0000002	.0000006
96							.0000001	.0000002
97								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	.9999999	1.0000000
39	.9999998	.9999999
40	.9999994	.9999998
41	.9999986	.9999996
42	.9999968	.9999990
43	.9999927	.9999975
44	.9999840	.9999944
45	.9999650	.9999875
46	.9999293	.9999731
47	.9998585	.9999441
48	.9997254	.9998873
49	.9994828	.9997797
50	.9990547	.9995880
51	.9983326	.9992301
52	.9971089	.9986838
53	.9951580	.9976869
54	.9921164	.9959583
55	.9875165	.9933634
56	.9807667	.9894002
57	.9711548	.9835262
58	.9578695	.9750760
59	.9400435	.9632747
60	.9168206	.9472730
61	.8874486	.9262841
62	.8513506	.8998855

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 130

c	.49	.50
63	.0002845	.0658050
64	.7583691	.8254434
65	.7021684	.7781435
66	.6406951	.7242934
67	.5753684	.6647329
68	.5079195	.6007277
69	.4402567	.5338988
70	.3743052	.4661012
71	.3116452	.3998783
72	.2543703	.3382671
73	.2029841	.2757066
74	.1583473	.2210875
75	.1206768	.1745576
76	.0897919	.1341950
77	.0651940	.1007365
78	.0461646	.0737959
79	.0318662	.0527270
80	.0214326	.0367253
81	.0140395	.0249240
82	.0089533	.0164738
83	.0055564	.0105998
84	.0033544	.0066366
85	.0019692	.0040417
86	.0011237	.0023931
87	.0006250	.0013772
88	.0003355	.0007699
89	.0001754	.0004180
90	.0000890	.0002203
91	.0000438	.0001127
92	.0000209	.0000559
93	.0000097	.0000269
94	.0000043	.0000125
95	.0000019	.0000056
96	.0000008	.0000025
97	.0000003	.0000010
98	.0000001	.0000004
99		.0000002
100		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 139

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7526613	.9396851	.9855032	.9965668	.9991991	.9998160	.9999804	.9999907
2	.4053878	.7685878	.9231821	.9766827	.9933398	.9981837	.9995233	.9998788
3	.1633487	.5276548	.7901875	.9195161	.9720615	.9909945	.9972685	.9992078
4	.0517010	.3031118	.6023498	.8107406	.9209188	.9700386	.9894982	.9965413
5	.0133574	.1473065	.4048297	.6566421	.8294003	.9245600	.9696069	.9886589
6	.0029000	.0614546	.2398902	.4832812	.6993477	.8461819	.9291948	.9701584
7	.0005410	.0233248	.1259630	.3219593	.5464789	.7344518	.8612620	.9348188
8	.0000882	.0071520	.0590160	.1942461	.3936101	.5989486	.7641107	.8748388
9	.0000127	.0020428	.0248524	.1064433	.2608555	.4562302	.6434551	.7896362
10	.0000017	.0005251	.0094729	.0531925	.1591547	.3236490	.5112673	.6818028
11	.0000002	.0001225	.0032894	.0243493	.0895699	.2136282	.3819228	.5599048
12		.0000261	.0010466	.0102540	.0466203	.1312783	.2677496	.4355965
13		.0000051	.0003067	.0039899	.0225085	.0752001	.1760841	.3208967
14		.0000009	.0000832	.0014461	.0101108	.0402353	.1086808	.2223496
15		.0000002	.0000210	.0004879	.0042383	.0201491	.0630287	.1456954
16			.0000049	.0001519	.0016636	.0094650	.0343805	.0901489
17			.0000011	.0000447	.0006120	.0041798	.0176738	.0537154
18			.0000002	.0000123	.0002119	.0017389	.0085755	.0291639
19				.0000032	.0000692	.0006829	.0039340	.0150833
20				.0000008	.0000213	.0002537	.0017091	.0075965
21				.0000002	.0000062	.0000893	.0007043	.0035860
22					.0000017	.0000298	.0002757	.0016099
23					.0000005	.0000093	.0001027	.0006882
24					.0000001	.0000029	.0000364	.0002805
25						.0000008	.0000123	.0001091
26						.0000002	.0000040	.0000406
27						.0000001	.0000012	.0000144
28							.0000004	.0000049
29							.0000001	.0000016
30								.0000005
31								.0000002

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.99999860	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	.9999701	.9999928	.9999983	.9999996	.9999999	1.00000000	1.00000000	1.00000000
3	.9997800	.9999412	.9999848	.9999962	.9999991	.9999998	.9999999	1.00000000
4	.9989213	.9996791	.9999085	.9999749	.9999933	.9999983	.9999996	.9999999
5	.9960340	.9986690	.9998877	.9998761	.9999643	.9999901	.9999973	.9999993
6	.9883238	.9957187	.9985174	.9995182	.9998469	.9999540	.9999867	.9999963
7	.9712936	.9883479	.9955628	.9984042	.9994551	.9998886	.9999448	.9999835
8	.9392918	.9737874	.9886247	.9955335	.9983430	.9994165	.9998041	.9999372
9	.8870691	.9442597	.9744756	.9890743	.9956010	.9983255	.9993948	.9997916
10	.8118913	.8981225	.9499213	.9762538	.9896373	.9957404	.9983433	.9993881
11	.7152342	.8314797	.9081229	.9535266	.9780325	.9902696	.9959311	.9983888
12	.6031274	.7446422	.8488431	.9171819	.9577590	.9798254	.9909389	.9961566
13	.4849609	.6417237	.7706915	.8643167	.9253956	.9616897	.9815418	.9916813
14	.3705933	.5300087	.6763267	.7938915	.8781627	.9328477	.9653414	.9831020
15	.2688825	.4182937	.5713633	.7074606	.8146426	.8905909	.9396113	.9687147
16	.1850549	.3148539	.4632528	.6092436	.7355467	.8332658	.9017729	.9457507
17	.1208025	.2257609	.3596976	.5054461	.6439500	.7609428	.8500234	.9118514
18	.0748248	.1541729	.2670934	.4030363	.5449215	.6757580	.7839488	.8651331
19	.0440046	.1002460	.1895185	.3083848	.4446282	.5817686	.7049184	.8048196
20	.0245927	.0620872	.1284587	.2261875	.3491889	.4843279	.6161009	.7316572
21	.0130736	.0366481	.0831785	.1589351	.2636226	.3891533	.5230588	.6480438
22	.0066178	.0206308	.0514653	.1069674	.1911698	.3013566	.4280168	.5577930
23	.0031932	.0110851	.0304420	.0689579	.1331017	.2246968	.3390037	.4655894
24	.0014703	.0056898	.0172241	.0423916	.0889629	.1618142	.2590968	.3762493
25	.0006467	.0027923	.0093280	.0252139	.0570849	.1112647	.1909410	.2939997
26	.0002720	.0013113	.0048387	.0143133	.0331734	.0738606	.1356145	.2219333
27	.0001095	.0005898	.0024059	.0077958	.0208176	.0471626	.0980053	.1617461
28	.0000422	.0002543	.0011475	.0040762	.0118398	.0289729	.0691889	.1137661
29	.0000156	.0001052	.0005254	.0020474	.0064738	.0171285	.0478699	.0778999
30	.0000055	.0000418	.0002311	.0009864	.0034048	.0097483	.0237951	.0505581
31	.0000019	.0000159	.0000977	.0004589	.0017233	.0053431	.0140407	.0319448
32	.0000006	.0000059	.0000397	.0002051	.0008398	.0028216	.0079882	.0194777
33	.0000002	.0000021	.0000156	.0000882	.0003943	.0014362	.0043834	.0114635
34	.0000001	.0000007	.0000059	.0000366	.0001784	.0007049	.0023208	.0065139
35		.0000002	.0000021	.0000146	.0000779	.0003338	.0011860	.0035747
36		.0000001	.0000007	.0000056	.0000328	.0001526	.0005852	.0018951
37			.0000003	.0000021	.0000133	.0000673	.0002789	.0009709
38			.0000001	.0000008	.0000052	.0000287	.0001285	.0004808
39				.0000003	.0000020	.0000118	.0000578	.0002303
40				.0000001	.0000007	.0000047	.0000246	.0001067
41					.0000003	.0000018	.0000103	.0000478
42					.0000001	.0000007	.0000041	.0000207
43						.0000002	.0000016	.0000087
44						.0000001	.0000006	.0000035
45							.0000002	.0000014
46							.0000001	.0000005
47								.0000002
48								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	.9999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	.9999990	.9999997	.9999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	.9999953	.9999987	.9999997	.9999999	1.00000000	1.00000000	1.00000000	1.00000000
8	.9999807	.9999943	.9999984	.9999996	.9999999	1.00000000	1.00000000	1.00000000
9	.9999315	.9999784	.9999951	.9999991	.9999998	1.00000000	1.00000000	1.00000000
10	.9997847	.9999376	.9999767	.9999928	.9999979	.9999994	.9999998	1.00000000

$$P(c,n,p) = \sum_{x=0}^{c} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 139

x	.17	.18	.19	.20	.21	.22	.23	.24
11	.9939938	.9997887	.9999256	.9999756	.9999883	.9999977	.9999993	.9999998
12	.9984849	.9998896	.9999850	.9999958	.9999991	.9999998	.9999999	.9999999
13	.9964038	.9995359	.9998331	.9999908	.9999982	.9999996	.9999999	.9999999
14	.9932995	.9986825	.9996269	.9998685	.9999794	.9999988	.9999998	.9999999
15	.9847339	.9989613	.9969248	.9987238	.9994958	.9998100	.9999316	.9999768
16	.9718207	.9961908	.9935978	.9971848	.9988233	.9995316	.9998881	.9999588
17	.9513230	.9896726	.9875495	.9942031	.9974380	.9989430	.9995687	.9998381
18	.9209468	.9763791	.9772845	.9888097	.9947735	.9976811	.9990909	.9996039
19	.8787780	.9491619	.9609647	.9796709	.9899730	.9953065	.9979110	.9991184
20	.8237740	.8911138	.9365858	.9651809	.9818464	.9910483	.9958088	.9981889
21	.7561787	.8410016	.9022748	.9432960	.9688849	.9838853	.9920813	.9964894
22	.6777848	.7786670	.8566679	.9123773	.9493607	.9722908	.9856215	.9931143
23	.5915372	.7052752	.7992882	.8709182	.9215234	.9548403	.9753683	.9870484
24	.5017378	.6233233	.7308207	.8181950	.8838011	.9298031	.9597888	.9781467
25	.4126399	.5363783	.6531959	.7544834	.8388179	.8956713	.9379963	.9640848
26	.3290832	.4495740	.5694379	.6812174	.7883801	.8513873	.9063910	.9440743
27	.2538651	.3640708	.4838956	.6009068	.7074538	.7966280	.8659146	.9161386
28	.1893877	.2864366	.3987249	.5160776	.6307708	.7319750	.8153143	.8792037
29	.1365628	.2182705	.3193764	.4328486	.5493351	.6590399	.7548368	.8325566
30	.0951500	.1609972	.2461351	.3524416	.4664758	.5803010	.6857354	.7761738
31	.0640488	.1148993	.1868617	.2787352	.3854168	.4988701	.6106310	.7108885
32	.0416507	.0793193	.1363252	.2139448	.3098404	.4181128	.5305208	.6383985
33	.0261676	.0529598	.0963171	.1592780	.2420370	.3412381	.4503652	.5611594
34	.0158851	.0341983	.0658882	.1149647	.1835905	.2709338	.3727332	.4820360
35	.0093192	.0213587	.0436355	.0804264	.1351645	.2091127	.3004388	.4041491
36	.0052847	.0129033	.0279763	.0545227	.0965414	.1568065	.2356554	.3303654
37	.0028975	.0075414	.0173649	.0358145	.0668816	.1141794	.1797529	.2630539
38	.0015364	.0042649	.0104350	.0227946	.0449335	.0807131	.1332689	.2038811
39	.0007881	.0023343	.0060731	.0140575	.0292789	.0553762	.0959991	.1537236
40	.0003912	.0012360	.0034228	.0084008	.0184980	.0366691	.0671686	.1127040
41	.0001879	.0006345	.0018687	.0048654	.0113275	.0230192	.0456394	.0803808
42	.0000874	.0003152	.0009804	.0027313	.0067889	.0149316	.0301114	.0556869
43	.0000394	.0001517	.0005066	.0014863	.0038765	.0090885	.0192888	.0374380
44	.0000172	.0000708	.0002517	.0007842	.0021662	.0053610	.0119964	.0244705
45	.0000073	.0000320	.0001212	.0004012	.0011742	.0030708	.0072438	.0155408
46	.0000030	.0000140	.0000566	.0001991	.0006175	.0017071	.0042469	.0095866
47	.0000012	.0000060	.0000256	.0000958	.0003151	.0009212	.0024176	.0057447
48	.0000005	.0000025	.0000113	.0000446	.0001560	.0004825	.0013564	.0033440
49	.0000002	.0000010	.0000048	.0000203	.0000750	.0002454	.0007174	.0018910
50	.0000001	.0000004	.0000020	.0000089	.0000350	.0001218	.0003740	.0010389
51		.0000001	.0000008	.0000038	.0000159	.0000581	.0001894	.0005545
52		.0000001	.0000003	.0000016	.0000070	.0000271	.0000938	.0002876
53			.0000001	.0000006	.0000030	.0000122	.0000445	.0001449
54				.0000002	.0000012	.0000054	.0000207	.0000710
55				.0000001	.0000005	.0000023	.0000093	.0000338
56					.0000002	.0000010	.0000041	.0000156
57					.0000001	.0000004	.0000017	.0000070
58						.0000002	.0000007	.0000031
59						.0000001	.0000003	.0000023
60							.0000001	.0000005
61								.0000002
62								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999975	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999922	.9999975	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
16	.9999776	.9999926	.9999976	.9999993	.9999998	.9999999	1.0000000	1.0000000
17	.9999398	.9999790	.9999930	.9999977	.9999993	.9999998	.9999999	1.0000000
18	.9998486	.9999444	.9999805	.9999934	.9999979	.9999993	.9999998	.9999999
19	.9996427	.9998682	.9999492	.9999821	.9999940	.9999981	.9999994	.9999998
20	.9992054	.9996782	.9998756	.9999540	.9999838	.9999945	.9999988	.9999994
21	.9983310	.9992904	.9997122	.9998885	.9999587	.9999854	.9999951	.9999984
22	.9966793	.9985181	.9993696	.9997441	.9999098	.9999633	.9999870	.9999956
23	.9937221	.9970628	.9986901	.9994410	.9997739	.9999124	.9999675	.9999885
24	.9887187	.9944617	.9974116	.9988472	.9995103	.9998014	.9999331	.9999715
25	.9806511	.9900445	.9951260	.9977273	.9989899	.9995717	.9998266	.9999330
26	.9682809	.9829054	.9918374	.9957240	.9980119	.9991187	.9996272	.9998495
27	.9502013	.9719073	.9869312	.9923081	.9962606	.9982674	.9992344	.9996772
28	.9249791	.9557350	.9751696	.9867484	.9932668	.9967406	.9984958	.9993379
29	.8913496	.9330062	.9607277	.9781001	.9883755	.9941231	.9971685	.9986992
30	.8484489	.9024450	.9402826	.9652270	.9807286	.9898295	.9948860	.9975488
31	.7960015	.8630619	.9125557	.9466709	.9692762	.9830823	.9911859	.9955638
32	.7345378	.8144143	.8764972	.9211711	.9528287	.9729149	.9851860	.9922792
33	.6653912	.7567875	.8314889	.8888376	.9301554	.9582085	.9761794	.9870626
34	.5906569	.6910089	.7775059	.8497878	.9001275	.9377784	.9630591	.9791029
35	.5129920	.6190815	.7158614	.7969241	.8618899	.9104670	.9446816	.9674249
36	.4353270	.5431439	.6481957	.7381664	.8150353	.8783600	.9199121	.9509383
37	.3605385	.4661849	.5723954	.6721548	.7597484	.8318948	.8877635	.9285853
38	.2911401	.3907947	.4964174	.6006917	.6966851	.7800373	.8475558	.8991638
39	.2290469	.3197507	.4209833	.5260943	.6279658	.7200382	.7990673	.8620756
40	.1754450	.2551071	.3487286	.4509656	.5550600	.6541720	.7426505	.8168761
41	.1307768	.1983255	.2819176	.3779237	.4806160	.5832383	.6792838	.7637002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 139

c	.25	.26	.27	.28	.29	.30	.31	.32
42	.0948243	.1501529	.2228499	.3093357	.4071950	.5098208	.6105413	.70387 68
43	.0666613	.1066600	.1707559	.2470984	.3372209	.4344093	.5304780	.6249889
44	.0458348	.0793586	.1277923	.1925000	.2727476	.3654368	.4654438	.5664971
45	.0305429	.0583634	.0931217	.1461741	.2152912	.2990788	.3938517	.4941820
46	.0197818	.0375652	.0660502	.1081411	.1657474	.2390893	.3259493	.4283395
47	.0124819	.0247864	.0455894	.0779169	.1243958	.1864445	.2636098	.3538532
48	.0076172	.0159023	.0306150	.0546592	.0909739	.1418514	.2081693	.2869228
49	.0045284	.0099195	.0199996	.0373836	.0648096	.1052213	.1604667	.2300987
50	.0026163	.0060157	.0127080	.0248034	.0449626	.0760668	.1206484	.1801888
51	.0014690	.0035468	.0078536	.0160393	.0303709	.0535761	.0884475	.1372346
52	.0008016	.0020330	.0047203	.0100916	.0199701	.0367554	.0632011	.1019896
53	.0004252	.0011329	.0027591	.0061772	.0127808	.0245557	.0440059	.0738673
54	.0002198	.0006138	.0015684	.0036785	.0079606	.0159738	.0298497	.0521667
55	.0001098	.0003233	.0008670	.0021309	.0048251	.0101153	.0197807	.0359031
56	.0000535	.0001656	.0004661	.0012008	.0028458	.0062554	.0126878	.0240750
57	.0000253	.0000825	.0002437	.0006582	.0016331	.0037413	.0079483	.0157858
58	.0000117	.0000399	.0001239	.0003509	.0009119	.0021846	.0048476	.0100045
59	.0000052	.0000188	.0000613	.0001820	.0004954	.0012415	.0028781	.0061981
60	.0000023	.0000086	.0000295	.0000918	.0002618	.0006866	.0016633	.0037389
61	.0000010	.0000038	.0000138	.0000451	.0001346	.0003695	.0009356	.0021959
62	.0000004	.0000017	.0000063	.0000215	.0000674	.0001935	.0005188	.0012585
63	.0000002	.0000007	.0000028	.0000100	.0000328	.0000986	.0002729	.0006907
64	.0000001	.0000003	.0000012	.0000045	.0000155	.0000489	.0001415	.0003785
65		.0000001	.0000005	.0000020	.0000071	.0000236	.0000714	.0001996
66			.0000002	.0000008	.0000032	.0000111	.0000351	.0001024
67			.0000001	.0000004	.0000014	.0000050	.0000167	.0000511
68				.0000001	.0000006	.0000022	.0000078	.0000248
69				.0000001	.0000002	.0000010	.0000038	.0000117
70					.0000001	.0000004	.0000015	.0000054
71						.0000002	.0000007	.0000024
72						.0000001	.0000003	.0000011
73							.0000001	.0000004
74								.0000002
75								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999961	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999899	.9999966	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000
25	.9999752	.9999913	.9999971	.9999990	.9999997	.9999999	1.0000000	1.0000000
26	.9999420	.9999786	.9999925	.9999975	.9999992	.9999997	.9999999	1.0000000
27	.9998701	.9999501	.9999817	.9999936	.9999978	.9999993	.9999998	.9999999
28	.9997219	.9998885	.9999573	.9999844	.9999945	.9999982	.9999994	.9999998
29	.9994299	.9997616	.9999048	.9999637	.9999868	.9999954	.9999985	.9999995
30	.9988796	.9995114	.9997967	.9999193	.9999694	.9999889	.9999962	.9999987
31	.9978056	.9990389	.9995832	.9998275	.9999319	.9999743	.9999908	.9999968
32	.9961643	.9981829	.9991790	.9996461	.9998545	.9999229	.9999786	.9999934
33	.9933098	.9966947	.9984444	.9993017	.9997010	.9998779	.9999534	.9999823
34	.9887330	.9942089	.9971619	.9986736	.9994067	.9997486	.9998981	.9999606
35	.9817159	.9902166	.9950089	.9975780	.9988736	.9995017	.9997898	.9999154
36	.9713473	.9840466	.9915309	.9957131	.9979308	.9990476	.9995880	.9998851
37	.9565939	.9748643	.9861207	.9926823	.9963318	.9982437	.9991983	.9996818
38	.9363653	.9616968	.9780111	.9879688	.9937159	.9968719	.9983154	.9993883
39	.9096816	.9434878	.9662900	.9800804	.9895930	.9946188	.9973435	.9987506
40	.8758089	.9191957	.9499450	.9704167	.9833283	.9910331	.9954031	.9977533
41	.8335043	.8879105	.9279423	.9557865	.9741154	.9855448	.9923016	.9960910
42	.7835484	.8489947	.8993345	.9359153	.9610588	.9774881	.9875135	.9934151
43	.7261364	.8088171	.8633915	.9098343	.9431665	.9658058	.9803707	.9889586
44	.6623475	.7478576	.8197326	.8767403	.9194619	.9497453	.9700691	.9819938
45	.5937982	.6867592	.7684410	.8361849	.8890873	.9282683	.9556990	.9730875
46	.5225207	.6203182	.7101352	.7878941	.8514270	.9004792	.9363038	.9610787
47	.4507805	.5503634	.6459793	.7324549	.8062295	.8656746	.9109630	.9434149
48	.3808689	.4790616	.5776234	.6707493	.7537051	.8234647	.8789054	.9180884
49	.3148587	.4086600	.5070766	.6042830	.6948804	.7738795	.8396817	.8911589
50	.2544837	.3413960	.4365297	.5347867	.6300930	.7174398	.7939781	.8547860
51	.2009573	.2788508	.3681536	.4643617	.5619805	.6551787	.7398997	.8110066
52	.1549500	.2227040	.3039026	.3958902	.4920506	.5885740	.6794098	.7601434
53	.1166017	.1737556	.2453545	.3295395	.4286073	.5194965	.6146108	.7087594
54	.0855969	.1323635	.1936044	.2668086	.3656897	.4499985	.5466049	.6399617
55	.0618765	.0984043	.1492260	.2144417	.3031415	.3821611	.4773604	.5738074
56	.0427639	.0713679	.1122958	.1671642	.2368068	.3179046	.4089413	.5045938
57	.0290867	.0504768	.0824676	.1272702	.1841370	.2580391	.3433864	.4338987
58	.0192773	.0348946	.0590800	.0945954	.1433101	.2061077	.2888405	.3699188
59	.0124466	.0233907	.0412787	.0686106	.1077644	.1604888	.2370880	.3063898

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 139

p	.33	.34	.35	.36	.37	.38	.39	.40
60	.0078277	.0153184	.0281139	.0485439	.0790980	.1219815	.1785598	.2486327
61	.0047944	.0097737	.0186644	.0334938	.0566501	.0905671	.1372453	.1976978
62	.0028596	.0060745	.0120748	.0225301	.0395761	.0656316	.1030368	.1535485
63	.0016606	.0036771	.0076109	.0147716	.0269608	.0464046	.0755216	.1165201
64	.0009389	.0021676	.0046731	.0094375	.0179053	.0320015	.0540206	.0863487
65	.0005167	.0012442	.0027946	.0058746	.0115899	.0215186	.0376967	.0624631
66	.0002768	.0006953	.0016275	.0035621	.0073102	.0141052	.0256544	.0440896
67	.0001444	.0003788	.0009229	.0021036	.0044920	.0090107	.0170880	.0303558
68	.0000733	.0002003	.0005095	.0012098	.0026887	.0056087	.0110087	.0203800
69	.0000362	.0001032	.0002738	.0006774	.0015573	.0034009	.0069379	.0133383
70	.0000174	.0000518	.0001432	.0003693	.0008896	.0020085	.0042599	.0085078
71	.0000081	.0000253	.0000728	.0001959	.0004916	.0011551	.0025477	.0052874
72	.0000037	.0000120	.0000361	.0001012	.0002645	.0006468	.0014839	.0032009
73	.0000016	.0000055	.0000174	.0000509	.0001385	.0003526	.0008415	.0018873
74	.0000007	.0000025	.0000082	.0000249	.0000706	.0001871	.0004646	.0010835
75	.0000003	.0000011	.0000037	.0000118	.0000350	.0000966	.0002496	.0006055
76	.0000001	.0000005	.0000017	.0000055	.0000169	.0000485	.0001305	.0003294
77		.0000002	.0000007	.0000025	.0000079	.0000237	.0000664	.0001744
78		.0000001	.0000003	.0000011	.0000036	.0000113	.0000329	.0000898
79			.0000001	.0000005	.0000016	.0000052	.0000158	.0000450
80				.0000002	.0000007	.0000023	.0000074	.0000219
81				.0000001	.0000003	.0000010	.0000034	.0000104
82					.0000001	.0000004	.0000015	.0000048
83						.0000002	.0000006	.0000021
84						.0000001	.0000003	.0000009
85							.0000001	.0000004
86								.0000002
87								.0000001

p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999974	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999937	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
34	.9999855	.9999949	.9999983	.9999995	.9999999	1.0000000	1.0000000	1.0000000
35	.9999676	.9999881	.9999959	.9999986	.9999996	.9999999	1.0000000	1.0000000
36	.9999303	.9999735	.9999904	.9999967	.9999989	.9999997	.9999999	1.0000000
37	.9998553	.9999428	.9999785	.9999923	.9999974	.9999991	.9999997	.9999999
38	.9997104	.9998810	.9999534	.9999826	.9999938	.9999979	.9999993	.9999998
39	.9994400	.9997608	.9999027	.9999623	.9999861	.9999951	.9999984	.9999995
40	.9989534	.9995354	.9998036	.9999209	.9999697	.9999890	.9999962	.9999987
41	.9981080	.9991274	.9996166	.9998396	.9999361	.9999758	.9999913	.9999970
42	.9966896	.9984140	.9992761	.9996854	.9998699	.9999488	.9999808	.9999932
43	.9943696	.9972685	.9986767	.9994026	.9997453	.9998951	.9999592	.9999849
44	.9907841	.9952394	.9976568	.9989015	.9995097	.9997918	.9999159	.9999678
45	.9853175	.9921283	.9959779	.9980423	.9990928	.9995999	.9998322	.9999331
46	.9772978	.9873723	.9933042	.9966178	.9983726	.9992549	.9996755	.9998657
47	.9659095	.9803345	.9891826	.9943292	.9971685	.9986542	.9993915	.9997385
48	.9502501	.9702503	.9830300	.9907718	.9952190	.9976417	.9988932	.9995061
49	.9293930	.9562542	.9741341	.9854147	.9921620	.9959086	.9980461	.9990950
50	.9024757	.9374317	.9616708	.9775976	.9875169	.9933733	.9966512	.9983908
51	.8688063	.9130977	.9447469	.9665420	.9806759	.9893633	.9944245	.9972191
52	.8277755	.8818941	.9224671	.9511831	.9709083	.9834081	.9909786	.9953327
53	.7792882	.8439004	.8939274	.9312268	.9573839	.9748004	.9858073	.9923859
54	.7251842	.7987381	.8588008	.9052301	.9392199	.9627917	.9782795	.9879809
55	.6645650	.7466544	.8164833	.8726998	.9155517	.9464893	.9676480	.9813568
56	.5994634	.6883663	.7671465	.8331988	.8856241	.9250271	.9530775	.9719927
57	.5316018	.6250534	.7113182	.7866440	.8488948	.8976032	.9336961	.9590870
58	.4629329	.5582933	.6499911	.7333801	.8051360	.8635861	.9086690	.9415995
59	.3954686	.4899456	.5845831	.6742126	.7545185	.8226180	.8772915	.9188550
60	.3311051	.4219774	.5168411	.6103891	.6976614	.7747061	.8390905	.8900334
61	.2714690	.3563922	.4487029	.5435264	.6356356	.7202876	.7939822	.8545596
62	.2177981	.2948664	.3821325	.4754893	.5699122	.6602522	.7420477	.8121930
63	.1708764	.2380157	.3189528	.4082360	.5022615	.5959131	.6841743	.7629046
64	.1310239	.1862077	.2606994	.3436515	.4346108	.5289364	.6214476	.7073434

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 139

r	.41	.42	.43	.44	.45	.46	.47	.48
65	.3981372	.1465490	.2065140	.2833918	.3688619	.4611643	.8853987	.4464397
66	.0717677	.1109058	.1630895	.2307608	.3068303	.3945606	.4878037	.5815719
67	.0513221	.0819666	.1246687	.1806335	.2490068	.3309470	.4206011	.5144340
68	.0356660	.0591340	.0930882	.1394328	.1991683	.2719048	.3556698	.4469147
69	.0242199	.0419275	.0679638	.1051566	.1552018	.2186310	.2947015	.3809811
70	.0160353	.0293839	.0486823	.0774447	.1181916	.1719719	.2390684	.3188381
71	.0103477	.0191358	.0335107	.0556710	.0879105	.1328080	.1897334	.2603770
72	.0065067	.0124893	.0226612	.0390481	.0660389	.0992894	.1472159	.2084718
73	.0039857	.0079439	.0149556	.0267076	.0482276	.0720054	.1116064	.1632800
74	.0023779	.0049213	.0096231	.0178106	.0342562	.0510993	.0826236	.1248828
75	.0013814	.0029698	.0060286	.0115758	.0238600	.0363676	.0597005	.0933804
76	.0007818	.0017451	.0036786	.0073502	.0163314	.0247533	.0420888	.0680705
77	.0004300	.0009983	.0021657	.0045211	.0108504	.0164219	.0289864	.0484430
78	.0002303	.0005550	.0012642	.0027152	.0069159	.0106151	.0193807	.0336194
79	.0001200	.0003011	.0007116	.0015874	.0043474	.0066032	.0126521	.0227430
80	.0000608	.0001587	.0003898	.0009032	.0019774	.0040970	.0080447	.0149907
81	.0000300	.0000813	.0002077	.0004999	.0011367	.0024447	.0049804	.0096838
82	.0000144	.0000405	.0001076	.0002692	.0006357	.0014195	.0030010	.0060153
83	.0000067	.0000196	.0000542	.0001409	.0003458	.0008016	.0017595	.0036892
84	.0000030	.0000092	.0000265	.0000717	.0001829	.0004404	.0010034	.0021657
85	.0000013	.0000043	.0000126	.0000355	.0000940	.0002352	.0005564	.0012466
86	.0000006	.0000019	.0000058	.0000171	.0000470	.0001220	.0002999	.0006976
87	.0000002	.0000008	.0000026	.0000080	.0000228	.0000615	.0001571	.0003794
88	.0000001	.0000003	.0000011	.0000036	.0000107	.0000301	.0000799	.0002005
89		.0000001	.0000005	.0000016	.0000049	.0000143	.0000395	.0001089
90		.0000001	.0000002	.0000007	.0000022	.0000066	.0000189	.0000813
91			.0000001	.0000003	.0000009	.0000030	.0000088	.0000348
92				.0000001	.0000004	.0000013	.0000040	.0000116
93					.0000002	.0000005	.0000017	.0000053
94					.0000001	.0000002	.0000007	.0000023
95						.0000001	.0000003	.0000010
96							.0000001	.0000004
97								.0000002
98								.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	.9999999	1.0000000
39	.9999998	1.0000000
40	.9999996	.9999999
41	.9999990	.9999997
42	.9999977	.9999993
43	.9999947	.9999982
44	.9999883	.9999959
45	.9999747	.9999909
46	.9999472	.9999803
47	.9998933	.9999566
48	.9997906	.9999157
49	.9996016	.9998335
50	.9993645	.9996809
51	.9986813	.9994060
52	.9977036	.9989265
53	.9961139	.9981148
54	.9936068	.9967826
55	.9897704	.9946609
56	.9840741	.9913818
57	.9758647	.9864632
58	.9643793	.9793011
59	.9487709	.9691753

$$B(a,n,p) = \sum_{r=a}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 139

x	.49	.50
60	.9381998	.9824738
61	.9014378	.9367385
62	.8690357	.9127338
63	.8393869	.8825342
64	.7988277	.8456337
65	.7597067	.8017925
66	.6708170	.7512179
67	.6073785	.6945132
68	.5409694	.6327305
69	.4734115	.5673132
70	.4066214	.5000000
71	.3424506	.4326868
72	.2825330	.3672697
73	.2281633	.3054868
74	.1802193	.2487821
75	.1391353	.1982075
76	.1049255	.1543763
77	.0772470	.1174658
78	.0554890	.0872662
79	.0388724	.0632615
80	.0265451	.0447262
81	.0176681	.0308247
82	.0114456	.0206989
83	.0072209	.0135368
84	.0044334	.0086182
85	.0026480	.0053391
86	.0015380	.0032174
87	.0008683	.0018852
88	.0004764	.0010735
89	.0002539	.0005940
90	.0001314	.0003191
91	.0000660	.0001665
92	.0000322	.0000843
93	.0000153	.0000414
94	.0000070	.0000197
95	.0000031	.0000091
96	.0000013	.0000041
97	.0000006	.0000018
98	.0000002	.0000007
99	.0000001	.0000003
100		.0000001

$$F(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.7551347	.9408914	.9859381	.9967041	.9989391	.9996271	.9999613	.9999918
2	.4966605	.7720097	.9850517	.9774781	.9963388	.9990816	.9998836	.9999778
3	.1657691	.5384735	.7941773	.9218027	.9731254	.9914886	.9974806	.9994618
4	.0528175	.3076027	.6279849	.8150916	.9334789	.9718960	.9900331	.9986846
5	.0137408	.1604226	.4107555	.6698060	.8339768	.9378887	.9769989	.9948895
6	.0030046	.0631716	.2448384	.4908156	.7058504	.8508846	.9388837	.9916399
7	.0005645	.0231074	.1293808	.3264782	.5841283	.7411553	.8660173	.9779874
8	.0000947	.0074855	.0610244	.1993146	.4012535	.6076788	.7709113	.9378831
9	.0000135	.0021450	.0258773	.1095454	.2674933	.4648008	.6819010	.8794519
10	.0000018	.0005555	.0099343	.0553825	.1648397	.3316044	.5805804	.7904895
11	.0000002	.0001305	.0034749	.0265021	.0930499	.2202895	.3909763	.6876561
12		.0000280	.0011139	.0108178	.0487679	.1368136	.2767416	.5655118
13		.0000055	.0003289	.0042405	.0237141	.0785644	.1885607	.4389807
14		.0000010	.0000899	.0015481	.0107307	.0423338	.1153990	.3201854
15		.0000002	.0000228	.0005281	.0045319	.0213845	.0663167	.2191878
16			.0000054	.0001658	.0017914	.0101061	.0363883	.0948986
17			.0000012	.0000489	.0006645	.0044969	.0188433	.0387101
18			.0000002	.0000136	.0002319	.0018854	.0091184	.0310480
19				.0000036	.0000763	.0007463	.0040569	.0163937
20				.0000009	.0000237	.0002794	.0016648	.0068114
21				.0000002	.0000070	.0000992	.0006744	.0039069
22					.0000020	.0000334	.0002687	.0017679
23					.0000005	.0000107	.0001148	.0007619
24					.0000001	.0000033	.0000411	.0003131
25						.0000009	.0000140	.0001238
26						.0000003	.0000046	.0000460
27						.0000001	.0000014	.0000168
28							.0000004	.0000057
29							.0000001	.0000019
30								.0000006
31								.0000002
32								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999980	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999786	.9999935	.9999985	.9999997	.9999999	1.0000000	1.0000000	1.0000000
3	.9997971	.9999463	.9999863	.9999966	.9999998	.9999998	1.0000000	1.0000000
4	.9989986	.9997053	.9999159	.9999774	.9999941	.9999992	.9999999	.9999999
5	.9968938	.9987080	.9996230	.9998679	.9999600	.9999918	.9999977	.9999994
6	.9890177	.9960157	.9986351	.9995559	.9998681	.9999590	.9999883	.9999968
7	.9738263	.9890850	.9958078	.9985372	.9995041	.9998410	.9999511	.9999856
8	.9421720	.9743434	.9893079	.9958786	.9984876	.9994793	.9998863	.9999446
9	.8917691	.9471125	.9760320	.9897494	.9959575	.9984782	.9996568	.9998149
10	.8186573	.9087368	.9518219	.9777925	.9904126	.9961022	.9990011	.9994586
11	.7239334	.8581440	.9126217	.9562539	.9795566	.9910385	.9963989	.9985487
12	.6133170	.7533060	.8553639	.9215432	.9603911	.9818876	.9916877	.9965137
13	.4955042	.6520155	.7793883	.8706605	.9296019	.9642207	.9839313	.9923468
14	.3808773	.5411802	.6867386	.8083426	.8843030	.9366856	.9677714	.9844383
15	.2780365	.4294652	.5829094	.7178323	.8229008	.8965069	.9434708	.9710895
16	.1925994	.3251979	.4751450	.6210297	.7458291	.8411913	.9074487	.9494849
17	.1265858	.2346881	.3710887	.5179018	.6558575	.7710680	.8577859	.9178753
18	.0788688	.1613337	.2779798	.4153255	.5577958	.6876839	.7938600	.8736081
19	.0467785	.1056387	.1990518	.3197430	.4576663	.5949271	.7167789	.8144697
20	.0263398	.0658031	.1351753	.2360512	.3655960	.4979696	.6294835	.7433652
21	.0141103	.0391920	.0881593	.1670054	.2747468	.4084778	.5361681	.6614814
22	.0071988	.0222325	.0549537	.1138035	.2005867	.3196481	.4481831	.5788331
23	.0035014	.0120397	.0327545	.0735190	.1406806	.2354898	.3583357	.4863480
24	.0016253	.0062293	.0184700	.0457556	.0947010	.1701018	.2710829	.3908437
25	.0007208	.0030820	.0101965	.0277992	.0612291	.1188574	.2011644	.3071896
26	.0003057	.0014594	.0053326	.0156214	.0380219	.0790978	.1439138	.2334640
27	.0001241	.0006620	.0028736	.0085779	.0226638	.0509003	.0998367	.1713760
28	.0000483	.0002879	.0014860	.0045226	.0130069	.0311898	.0689304	.1181489
29	.0000180	.0001201	.0007538	.0022908	.0071714	.0187868	.0468177	.0830599
30	.0000064	.0000481	.0003635	.0011155	.0038037	.0107816	.0310543	.0564824
31	.0000022	.0000185	.0001124	.0005225	.0019419	.0059858	.0199039	.0369884
32	.0000007	.0000069	.0000461	.0002355	.0009547	.0031746	.0124841	.0231723
33	.0000002	.0000024	.0000182	.0001023	.0004582	.0016308	.0074848	.0137488
34	.0000001	.0000008	.0000069	.0000428	.0002068	.0008073	.0042308	.0073038
35		.0000003	.0000025	.0000173	.0000909	.0003858	.0023568	.0038449
36		.0000001	.0000009	.0000067	.0000386	.0001779	.0012783	.0019438
37			.0000003	.0000025	.0000159	.0000793	.0006849	.0011188
38			.0000001	.0000009	.0000063	.0000341	.0003510	.0005998
39				.0000003	.0000024	.0000142	.0000679	.0002704
40				.0000001	.0000009	.0000057	.0000295	.0001864
41					.0000003	.0000022	.0000124	.0000578
42					.0000001	.0000008	.0000051	.0000351
43						.0000003	.0000020	.0000106
44						.0000001	.0000008	.0000044
45							.0000003	.0000017
46							.0000001	.0000007
47								.0000003
48								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999991	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999959	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999832	.9999951	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000
9	.9999398	.9999813	.9999944	.9999984	.9999996	.9999999	1.0000000	1.0000000
10	.9998096	.9999368	.9999799	.9999939	.9999988	.9999995	.9999999	1.0000000

$$I(x,n,p) = \sum_{r=x}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

r	.17	.18	.19	.20	.21	.22	.23	.24
11	.9994808	.9998088	.9999383	.9999791	.9999935	.9999981	.9999994	.9999998
12	.9986145	.9994767	.9998117	.9999383	.9999787	.9999933	.9999980	.9999994
13	.9967885	.9986732	.9995000	.9998177	.9999365	.9999789	.9999933	.9999979
14	.9929973	.9964997	.9987801	.9995281	.9998860	.9999387	.9999794	.9999933
15	.9860801	.9936278	.9973488	.9988715	.9996595	.9998361	.9999417	.9999808
16	.9740140	.9874098	.9948299	.9974996	.9989646	.9995899	.9998473	.9999453
17	.9548076	.9767489	.9906986	.9947995	.9977289	.9990569	.9996870	.9998598
18	.9261107	.9596719	.9838348	.9898884	.9953331	.9979543	.9991469	.9996610
19	.8889467	.9340610	.9740655	.9814987	.9909511	.9958898	.9981669	.9993331
20	.8331847	.8979885	.9618178	.9680309	.9835530	.9919805	.9962874	.9986356
21	.7676699	.8500218	.9087939	.9476610	.9716068	.9854130	.9928909	.9967001
22	.6910480	.7898878	.8453332	.9185611	.9534608	.9746881	.9870935	.9937171
23	.6061891	.7184857	.7810904	.8798100	.9273693	.9586793	.9777866	.9886088
24	.5170037	.6380738	.7138295	.8287380	.8917860	.9353113	.9631781	.9803311
25	.4279384	.5520833	.6479446	.7672853	.8456742	.9031803	.9404696	.9675886
26	.3433818	.4643777	.5853319	.6958706	.7887991	.8611598	.9134998	.9489174
27	.2666588	.3792808	.4996610	.6169687	.7219279	.8086704	.8752242	.9232386
28	.2003488	.3004106	.4147929	.5336833	.6468741	.7461974	.8269584	.8880666
29	.1455430	.2305404	.3344526	.4496544	.5663576	.6750657	.7687620	.8437519
30	.1021902	.1713064	.2616709	.3685830	.4836973	.5976236	.7016333	.7897057
31	.0693360	.1231969	.1988036	.2934764	.4023972	.5167849	.6274430	.7265570
32	.0454584	.0857937	.1459271	.2269029	.3257115	.4358794	.5488081	.6557961
33	.0287997	.0577045	.1039186	.1702114	.2563757	.3581505	.4688010	.5796615
34	.0176332	.0375754	.0716697	.1236274	.1956690	.2864007	.3905885	.5010177
35	.0104354	.0236690	.0478635	.0873341	.1453352	.2227133	.3170665	.4288419
36	.0059706	.0144253	.0309515	.0597035	.1046523	.1683100	.2505556	.3640735
37	.0033034	.0085036	.0193811	.0395561	.0731101	.1235565	.1926105	.3079887
38	.0017678	.0048546	.0117584	.0253985	.0493426	.0880757	.1439608	.2613826
39	.0009153	.0026818	.0069080	.0158049	.0328617	.0609503	.1045711	.2237614
40	.0004587	.0014343	.0039364	.0095328	.0207560	.0409407	.0737996	.1885487
41	.0002235	.0007439	.0021640	.0055725	.0128381	.0266902	.0505911	.0860923
42	.0001045	.0003727	.0011557	.0031560	.0076946	.0168869	.0336828	.0615533
43	.0000475	.0001812	.0005982	.0017353	.0044755	.0103693	.0217780	.0417986
44	.0000210	.0000853	.0003001	.0009246	.0025253	.0061797	.0136736	.0275813
45	.0000090	.0000390	.0001460	.0004778	.0013825	.0035746	.0083369	.0176834
46	.0000037	.0000173	.0000689	.0002395	.0007344	.0020071	.0049362	.0110154
47	.0000015	.0000074	.0000315	.0001165	.0003786	.0010941	.0028363	.0066467
48	.0000006	.0000031	.0000140	.0000550	.0001894	.0005790	.0015851	.0039202
49	.0000002	.0000013	.0000060	.0000252	.0000920	.0002975	.0008598	.0022397
50	.0000001	.0000005	.0000025	.0000112	.0000434	.0001485	.0004530	.0012434
51		.0000002	.0000010	.0000048	.0000199	.0000740	.0002319	.0006707
52		.0000001	.0000004	.0000020	.0000088	.0000339	.0001153	.0003516
53			.0000002	.0000008	.0000038	.0000155	.0000557	.0001781
54			.0000001	.0000003	.0000016	.0000069	.0000262	.0000887
55				.0000001	.0000007	.0000030	.0000119	.0000427
56					.0000003	.0000013	.0000053	.0000200
57					.0000001	.0000005	.0000023	.0000091
58						.0000002	.0000010	.0000040
59						.0000001	.0000004	.0000017
60							.0000003	.0000007
61							.0000001	.0000003
62								.0000001

r	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999979	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999936	.9999980	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999813	.9999939	.9999981	.9999994	.9999998	1.0000000	1.0000000	1.0000000
17	.9999493	.9999825	.9999942	.9999982	.9999994	.9999998	1.0000000	1.0000000
18	.9998714	.9999534	.9999839	.9999947	.9999983	.9999995	.9999998	1.0000000
19	.9996942	.9998836	.9999577	.9999853	.9999951	.9999984	.9999995	.9999999
20	.9993148	.9997261	.9998955	.9999619	.9999867	.9999956	.9999986	.9999996
21	.9985496	.9993918	.9997563	.9999069	.9999640	.9999881	.9999960	.9999987
22	.9970922	.9987189	.9994681	.9997846	.9999176	.9999699	.9999898	.9999965
23	.9944644	.9974412	.9988736	.9995273	.9998107	.9999376	.9999734	.9999898
24	.9897706	.9951380	.9977569	.9990140	.9995867	.9998347	.9999349	.9999770
25	.9826680	.9911930	.9957431	.9980409	.9991407	.9996406	.9998565	.9999453
26	.9713735	.9847616	.9928873	.9968849	.9984955	.9992546	.9996870	.9998768
27	.9547218	.9747668	.9886339	.9938645	.9967685	.9983888	.9993568	.9997323
28	.9313847	.9599398	.9778088	.9883051	.9941350	.9971986	.9987848	.9994465
29	.8997570	.9388157	.9646670	.9803816	.9897940	.9949083	.9975800	.9989036
30	.8591696	.9103873	.9458028	.9688315	.9839462	.9911176	.9957934	.9979189
31	.8091118	.8733002	.9200419	.9530106	.9735974	.9851065	.9928815	.9961990
32	.7499037	.8270627	.8868330	.9307791	.9573984	.9759651	.9870874	.9933303
33	.6826778	.7717861	.8456389	.8996518	.9347306	.9628405	.9769715	.9883719
34	.6092405	.7080958	.7980805	.8589169	.9068356	.9439032	.9671864	.9814300
35	.5324082	.6377382	.7380674	.8110859	.8739788	.9186586	.9503744	.9711818
36	.4547432	.5638713	.6648434	.7546186	.8386832	.8858981	.9275907	.9568140
37	.3792356	.4861496	.5823844	.6906303	.7957616	.8449339	.8977284	.9386975
38	.3084897	.4103805	.5169325	.6209014	.7451155	.7955944	.8600888	.9165594
39	.2445702	.3382221	.4413504	.5469816	.6879510	.7388769	.8140987	.8903498
40	.1886455	.2719144	.3682373	.4720016	.6260241	.6740351	.7601397	.8313399
41	.1419439	.2130887	.2999565	.3983754	.5628048	.6045142	.6989874	.7807165

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

c	.28	.36	.87	.86	.89	.30	.31	.38
43	.1031185	.16867777	.2383409	.3285403	.4384871	.5310443	.6316518	.7886181
43	.0735581	.1209981	.1644553	.2645248	.3578134	.4584386	.5600176	.6861608
44	.0510915	.0874969	.1393984	.2077075	.2914446	.3847886	.4800448	.5890383
45	.0343659	.0616088	.1084088	.1591464	.2319336	.3169880	.4160480	.5173888
46	.0228471	.0431927	.0733595	.1197904	.1801151	.2570483	.3469990	.4483891
47	.0148844	.0301089	.0511138	.0863797	.1363074	.2028806	.2888346	.3793376
48	.0095259	.0209188	.0346881	.0611713	.1006661	.1553993	.2353695	.3099003
49	.0059006	.0144750	.0232687	.0428778	.0723973	.1168103	.1758607	.2494463
50	.0036943	.0098107	.0146767	.0293091	.0507183	.0848131	.1389981	.1964160
51	.0017558	.0041887	.0091642	.0184933	.0346088	.0603833	.0984898	.1509800
52	.0009688	.0034866	.0053663	.0117389	.0230663	.0411876	.0710875	.1113476
53	.0005193	.0013669	.0030886	.0073735	.0148657	.0288156	.0499564	.0808869
54	.0000707	.0007188	.0010899	.0043781	.0093585	.0193479	.0343381	.0591109
55	.0001378	.0003980	.0010564	.0025848	.0057344	.0110787	.0888607	.0411075
56	.0000676	.0002066	.0007744	.0014618	.0034198	.0073994	.0148480	.0276600
57	.0000384	.0001041	.0003038	.0008101	.0019848	.0044894	.0094175	.0183775
58	.0000151	.0000510	.0001563	.0004376	.0011810	.0026698	.0058698	.0118365
59	.0000068	.0000243	.0000782	.0002293	.0006168	.0015844	.0034887	.0074161
60	.0000030	.0000113	.0000381	.0001171	.0003296	.0008538	.0020399	.0045858
61	.0000013	.0000051	.0000180	.0000588	.0001715	.0004646	.0011618	.0026896
62	.0000005	.0000028	.0000083	.0000281	.0000869	.0002463	.0006435	.0015344
63	.0000002	.0000009	.0000037	.0000132	.0000430	.0001270	.0003471	.0008749
64	.0000001	.0000004	.0000016	.0000060	.0000205	.0000638	.0001888	.0004910
65		.0000002	.0000007	.0000027	.0000096	.0000312	.0000931	.0002688
66		.0000001	.0000003	.0000012	.0000043	.0000148	.0000463	.0001338
67			.0000001	.0000005	.0000019	.0000069	.0000224	.0000675
68				.0000002	.0000008	.0000031	.0000106	.0000333
69				.0000001	.0000003	.0000014	.0000048	.0000159
70					.0000001	.0000006	.0000022	.0000074
71					.0000001	.0000002	.0000009	.0000034
72						.0000001	.0000004	.0000015
73							.0000002	.0000006
74							.0000001	.0000003
75								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999920	.9999973	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
25	.9999801	.9999931	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000
26	.9999580	.9999839	.9999941	.9999980	.9999994	.9999998	.9999999	1.0000000
27	.9999138	.9999678	.9999834	.9999950	.9999985	.9999996	.9999999	1.0000000
28	.9998308	.9999094	.9999658	.9999877	.9999959	.9999991	.9999998	.9999999
29	.9996963	.9998247	.9999332	.9999719	.9999905	.9999985	.9999997	.9999999
30	.9990618	.9996965	.9998345	.9999355	.9999758	.9999914	.9999971	.9999991
31	.9982136	.9991995	.9996579	.9998606	.9999458	.9999799	.9999939	.9999976
32	.9967385	.9984739	.9993205	.9997114	.9998831	.9999548	.9999854	.9999943
33	.9942471	.9972007	.9987015	.9994857	.9997578	.9999086	.9999686	.9999863
34	.9900411	.9950541	.9974108	.9988997	.9994149	.9997977	.9999195	.9999693
35	.9840315	.9915740	.9957684	.9979685	.9990716	.9996965	.9998380	.9999338
36	.9747689	.9861444	.9927488	.9963823	.9984704	.9994808	.9996430	.9998618
37	.9614685	.9779963	.9880143	.9937798	.9974930	.9989489	.9993480	.9997807
38	.9430408	.9661734	.9808495	.9896651	.9956835	.9979338	.9987818	.9994875
39	.9184471	.9496787	.9703984	.9833915	.9921165	.9954728	.9978005	.9988817
40	.8867641	.9274550	.9556658	.9741681	.9856486	.9923944	.9961598	.9978888
41	.8473658	.8985475	.9356432	.9610534	.9775819	.9876304	.9935118	.9962589
42	.8000339	.8622261	.9093473	.9430669	.9659897	.9805087	.9893809	.9934888
43	.7450824	.8181215	.8759716	.9198835	.9497666	.9708800	.9831544	.9909174
44	.6833972	.7663399	.8360138	.8888341	.9288386	.9580483	.9740867	.9884967
45	.6164195	.7075327	.7863931	.8507464	.9003259	.9364556	.9621003	.9795294
46	.5460423	.6429048	.7308483	.8058378	.8653613	.9110391	.9438474	.9661984
47	.4744548	.5741440	.6684339	.7584130	.8255528	.8788003	.9188447	.9388880
48	.4039337	.5033048	.6015480	.6999633	.7731391	.8335045	.8814079	.8987978
49	.3366401	.4325965	.5317680	.6281724	.7164565	.7987819	.8349484	.8989898
50	.2744075	.3648065	.4618211	.5597483	.6839853	.7300645	.8111691	.8000898
51	.2186210	.3000856	.3990858	.4896931	.5871443	.6788340	.7668343	.8004493
52	.1701324	.2417939	.3363905	.4201860	.5179088	.6138913	.7087469	.7004007
53	.1298566	.1903980	.2658463	.3538087	.4483013	.5487460	.6398884	.7004136
54	.0958286	.1464368	.2117169	.2990645	.3804303	.4764077	.5731878	.6488888
55	.0693082	.1099804	.1647588	.2540810	.3168108	.4079393	.5043667	.5888873
56	.0488730	.0805603	.1258214	.1841089	.2578388	.3483881	.4386848	.5288710
57	.0336001	.0575794	.0939075	.1416313	.2046686	.2918785	.3686168	.4633788
58	.0225144	.0401330	.0678657	.1043884	.1591411	.2461488	.3068888	.3988888
59	.0147007	.0278718	.0475078	.0779681	.1209194	.1777831	.2488888	.3318888

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

p	.33	.34	.35	.36	.37	.38	.39	.40
60	.0093580	.0180630	.0327205	.0557679	.0897047	.1365892	.1974613	.2718434
61	.0057954	.0116589	.0219718	.0389119	.0649558	.1025046	.1533580	.2181517
62	.0034881	.0073322	.0143812	.0264771	.0458935	.0751071	.1163781	.1732082
63	.0020563	.0044922	.0091733	.0175646	.0316285	.0537109	.0862525	.1353514
64	.0011771	.0026808	.0057014	.0113570	.0212559	.0374747	.0624060	.0984173
65	.0006560	.0015381	.0034521	.0071572	.0139266	.0255021	.0440630	.0720174
66	.0003560	.0008819	.0020360	.0043946	.0088937	.0169223	.0303509	.0514390
67	.0001881	.0004860	.0011695	.0026207	.0055348	.0109466	.0203806	.0358493
68	.0000967	.0002608	.0006542	.0015315	.0033559	.0069014	.0133539	.0243703
69	.0000484	.0001362	.0003563	.0008691	.0019822	.0042398	.0085255	.0161550
70	.0000236	.0000693	.0001889	.0004802	.0011404	.0025376	.0053043	.0104400
71	.0000112	.0000343	.0000975	.0002583	.0006389	.0014794	.0032155	.0065755
72	.0000052	.0000165	.0000490	.0001353	.0003485	.0008400	.0018988	.0040355
73	.0000023	.0000077	.0000240	.0000690	.0001851	.0004644	.0010920	.0024127
74	.0000010	.0000035	.0000114	.0000342	.0000957	.0002500	.0006116	.0014050
75	.0000004	.0000016	.0000053	.0000165	.0000481	.0001310	.0003338	.0007967
76	.0000002	.0000007	.0000024	.0000078	.0000236	.0000668	.0001770	.0004398
77	.0000001	.0000003	.0000010	.0000035	.0000112	.0000331	.0000914	.0002354
78		.0000001	.0000004	.0000016	.0000052	.0000160	.0000459	.0001236
79			.0000002	.0000007	.0000023	.0000075	.0000225	.0000629
80			.0000001	.0000003	.0000010	.0000034	.0000107	.0000311
81				.0000001	.0000004	.0000015	.0000049	.0000150
82					.0000002	.0000007	.0000020	.0000070
83					.0000001	.0000003	.0000010	.0000032
84						.0000001	.0000004	.0000014
85							.0000002	.0000006
86							.0000001	.0000003
87								.0000001

p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999980	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999952	.9999984	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999889	.9999961	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
35	.9999749	.9999910	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000
36	.9999455	.9999796	.9999928	.9999975	.9999992	.9999999	.9999999	1.0000000
37	.9998860	.9999557	.9999836	.9999942	.9999981	.9999994	.9999998	.9999999
38	.9997698	.9999069	.9999642	.9999869	.9999954	.9999985	.9999995	.9999999
39	.9995508	.9998113	.9999245	.9999712	.9999896	.9999964	.9999988	.9999996
40	.9991529	.9996301	.9998462	.9999391	.9999771	.9999918	.9999972	.9999991
41	.9984546	.9992988	.9996970	.9998754	.9999512	.9999819	.9999936	.9999978
42	.9972711	.9987136	.9994225	.9997532	.9998997	.9999638	.9999858	.9999950
43	.9953326	.9977149	.9989345	.9995270	.9998002	.9999198	.9999694	.9999899
44	.9922693	.9960664	.9980954	.9991220	.9996148	.9998193	.9999363	.9999760
45	.9875588	.9934350	.9966998	.9984203	.9993804	.9996882	.9998716	.9999498
46	.9805859	.9893698	.9944532	.9972443	.9986967	.9994136	.9997492	.9998981
47	.9705787	.9832904	.9909549	.9953359	.9977103	.9989305	.9995850	.9997995
48	.9566705	.9744857	.9856756	.9923370	.9960463	.9981074	.9991274	.9996176
49	.9379444	.9621326	.9779593	.9877710	.9935377	.9967490	.9984442	.9992985
50	.9135118	.9453372	.9670300	.9810371	.9896072	.9945763	.9973068	.9987383
51	.8826108	.9234020	.9520249	.9714064	.9837543	.9912079	.9954716	.9977813
52	.8447162	.8949156	.9320474	.9580530	.9753017	.9861448	.9925983	.9960388
53	.7996453	.8598578	.9062542	.9400956	.9634699	.9787615	.9882378	.9930004
54	.7476416	.8177063	.8739465	.9166607	.9473937	.9683194	.9818175	.9880641
55	.6894189	.7685296	.8346798	.8870132	.9263024	.9539884	.9726448	.9804576
56	.6261545	.7128473	.7883613	.8505752	.8999915	.9348997	.9599256	.9764875
57	.5594243	.6516448	.7353244	.8071281	.8654230	.9103182	.9428054	.9658506
58	.4910869	.5863326	.6763618	.7568162	.8248275	.8798340	.9204317	.9499647
59	.4231289	.5186517	.6127085	.7002463	.7773964	.8414633	.8930389	.9289738
60	.3574941	.4505357	.5459701	.6384715	.7233471	.7967456	.8570450	.9030681
61	.2959198	.3839464	.4780033	.5729460	.6635847	.7453201	.8151513	.8715870
62	.2398032	.3207071	.4107578	.5054256	.5994077	.6878505	.7664807	.8338976
63	.1901143	.2623570	.3461201	.4378274	.5327043	.6255091	.7113748	.7868434
64	.1473634	.2106431	.2857484	.3720686	.4650536	.5597403	.6509891	.7340137

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 140$$

%	.41	.42	.43	.44	.45	.46	.47	.48
65	.1116207	.1644656	.2309537	.3099060	.3984599	.4923349	.5864386	.6786735
66	.0825792	.1256759	.1826221	.2527984	.3347535	.4251983	.5195705	.6127085
67	.0596458	.0941211	.1411894	.2018095	.2755284	.3602092	.4581863	.5466613
68	.0420440	.0687937	.1066676	.1575611	.2219973	.2990648	.3861873	.4793850
69	.0289128	.0489803	.0787100	.1202381	.1749840	.2431477	.3233564	.4128980
70	.0193910	.0340617	.0567021	.0896379	.1348462	.1934448	.2652160	.3483860
71	.0126796	.0231042	.0393625	.0652515	.1015370	.1504594	.2129809	.2881383
72	.0080815	.0152812	.0273379	.0463605	.0746678	.1144319	.1671992	.2333860
73	.0050193	.0098524	.0182832	.0321361	.0536000	.0849880	.1283189	.1849405
74	.0030371	.0061904	.0119203	.0217253	.0375433	.0616841	.0962455	.1432846
75	.0017900	.0037895	.0075742	.0143191	.0256467	.0436042	.0704744	.1084703
76	.0010273	.0022595	.0046891	.0091983	.0170846	.0300959	.0503631	.0801904
77	.0005740	.0013119	.0028276	.0057571	.0110918	.0202543	.0351099	.0578648
78	.0003128	.0007416	.0016624	.0035028	.0070164	.0133868	.0238674	.0407347
79	.0001652	.0004081	.0009492	.0020837	.0043232	.0084919	.0158145	.0279637
80	.0000851	.0002185	.0005282	.0012042	.0025959	.0052867	.0100108	.0187118
81	.0000426	.0001138	.0002860	.0006774	.0015150	.0032048	.0062806	.0121979
82	.0000208	.0000577	.0001506	.0003707	.0008612	.0018911	.0038313	.0077474
83	.0000098	.0000284	.0000772	.0001974	.0004762	.0010859	.0023430	.0047901
84	.0000045	.0000136	.0000384	.0001022	.0002562	.0006066	.0013587	.0028886
85	.0000020	.0000063	.0000186	.0000514	.0001340	.0003396	.0007665	.0016877
86	.0000009	.0000029	.0000088	.0000252	.0000681	.0001741	.0004204	.0009621
87	.0000004	.0000013	.0000040	.0000120	.0000337	.0000894	.0002242	.0005381
88	.0000002	.0000005	.0000018	.0000055	.0000162	.0000446	.0001168	.0002864
89	.0000001	.0000002	.0000008	.0000025	.0000075	.0000216	.0000585	.0001497
90		.0000001	.0000003	.0000011	.0000034	.0000102	.0000286	.0000760
91			.0000001	.0000005	.0000015	.0000046	.0000136	.0000378
92			.0000001	.0000002	.0000006	.0000021	.0000068	.0000179
93				.0000001	.0000003	.0000009	.0000028	.0000083
94					.0000001	.0000004	.0000011	.0000038
95						.0000001	.0000005	.0000016
96						.0000001	.0000002	.0000007
97							.0000001	.0000003
98								.0000001

%	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	.9999999	1.0000000
40	.9999997	.9999999
41	.9999993	.9999998
42	.9999984	.9999995
43	.9999963	.9999988
44	.9999914	.9999971
45	.9999813	.9999934
46	.9999607	.9999856
47	.9999197	.9999695
48	.9998409	.9999378
49	.9996942	.9998746
50	.9994297	.9997578
51	.9989671	.9995434
52	.9981807	.9991665
53	.9968929	.9985290
54	.9948353	.9974487
55	.9916508	.9957217
56	.9868653	.9930213
57	.9798873	.9889235
58	.9700071	.9828888
59	.9564288	.9743582

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 140$$

x	.49	.50
60	.9382832	.9682846
61	.9147858	.9460062
62	.8851087	.9247362
63	.8488014	.8976340
64	.8056417	.8640790
65	.7557360	.8237081
66	.6996730	.7765052
67	.6384634	.7228655
68	.5735099	.6636817
69	.5065149	.6000210
70	.4393485	.5336566
71	.3736943	.4663434
72	.3118996	.3999788
73	.2548045	.3363783
74	.2037119	.2771345
75	.1592665	.2234948
76	.1216883	.1762919
77	.0908095	.1359210
78	.0661504	.1023650
79	.0470146	.0758638
80	.0325855	.0539938
81	.0220148	.0377754
82	.0144917	.0257618
83	.0092910	.0171178
84	.0057993	.0110775
85	.0035288	.0069787
86	.0020819	.0042783
87	.0011965	.0025513
88	.0006685	.0014794
89	.0003629	.0008338
90	.0001914	.0004566
91	.0000980	.0002420
92	.0000487	.0001254
93	.0000235	.0000628
94	.0000110	.0000305
95	.0000050	.0000144
96	.0000022	.0000066
97	.0000009	.0000029
98	.0000004	.0000012
99	.0000002	.0000005
100	.0000001	.0000002
101		.0000001

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 141

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.7575834	.9420736	.9863600	.9968359	.9992772	.9998374	.9999640	.9999928
2	.4123233	.7753874	.9268783	.9782471	.9939131	.9983743	.9995821	.9999041
3	.1662000	.5372643	.7961036	.9240898	.9741508	.9918572	.9975701	.9993113
4	.0539470	.3121021	.6135707	.8193601	.9259584	.9735038	.9905531	.9969588
5	.0141316	.1535662	.4166723	.6668974	.8384512	.9299291	.9783315	.9898867
6	.0031180	.0649166	.2498159	.4971193	.7122567	.8554689	.9347819	.9730455
7	.0005809	.0239087	.1328445	.3318843	.5617087	.7477391	.8706377	.9398511
8	.0000974	.0077685	.0630751	.2045169	.4088969	.6151234	.7775607	.8841835
9	.0000143	.0022512	.0269317	.1135314	.2741813	.4733375	.6602317	.8031084
10	.0000019	.0005873	.0104126	.0575079	.1694024	.3395968	.5297170	.6989113
11	.0000002	.0001300	.0036687	.0266949	.0966087	.2269120	.4000444	.5793180
12		.0000301	.0011847	.0114032	.0509820	.1412546	.2838081	.4554704
13		.0000060	.0003525	.0045035	.0249668	.0820234	.1890275	.3388023
14		.0000011	.0000971	.0016500	.0113799	.0445071	.1182361	.2381388
15		.0000002	.0000248	.0035629	.0048418	.0226130	.0695194	.1580964
16			.0000059	.0001734	.0019284	.0107816	.0384735	.0991715
17			.0000013	.0000536	.0007208	.0048354	.0200728	.0588807
18			.0000003	.0000150	.0002535	.0020421	.0098866	.0330810
19			.0000001	.0000040	.0000841	.0008146	.0046056	.0175660
20				.0000010	.0000264	.0003075	.0020324	.0088660
21				.0000002	.0000078	.0001100	.0008509	.0043518
22				.0000001	.0000022	.0000373	.0003385	.0019391
23					.0000006	.0000121	.0001288	.0008184
24					.0000002	.0000037	.0000463	.0003490
25						.0000011	.0000159	.0001380
26						.0000003	.0000058	.0000522
27						.0000001	.0000016	.0000189
28							.0000005	.0000065
29							.0000001	.0000021
30								.0000007
31								.0000002
32								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999983	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999749	.9999941	.9999987	.9999997	.9999999	1.0000000	1.0000000	1.0000000
3	.9998129	.9999511	.9999876	.9999970	.9999993	.9999998	1.0000000	1.0000000
4	.9990705	.9997294	.9999245	.9999797	.9999948	.9999987	.9999997	.9999999
5	.9965373	.9988797	.9996553	.9998987	.9999714	.9999922	.9999980	.9999995
6	.9896726	.9962929	.9987438	.9995957	.9998759	.9999635	.9999897	.9999972
7	.9742835	.9897780	.9961900	.9986594	.9995524	.9998575	.9999567	.9999874
8	.9449309	.9758176	.9901029	.9961971	.9988200	.9995248	.9998441	.9999518
9	.8963054	.9488356	.9775011	.9905728	.9962864	.9986175	.9995116	.9998357
10	.8252374	.9071730	.9544845	.9792391	.9911334	.9964349	.9986443	.9995106
11	.7324585	.8446632	.9169337	.9588385	.9809696	.9917419	.9966241	.9986933
12	.6231815	.7618079	.8616622	.9257085	.9628829	.9826523	.9933785	.9968393
13	.5060990	.6621466	.7876565	.8767665	.9336045	.9666169	.9842613	.9930136
14	.3911938	.5522637	.6968923	.8105407	.8901919	.9407136	.9700404	.9857626
15	.2872921	.4406367	.5943273	.7279733	.8308826	.9021599	.9471159	.9731899
16	.2002887	.3356246	.4869991	.6326460	.7558484	.8490215	.9138520	.9528816
17	.1325265	.2437391	.3825349	.5302772	.6675538	.7808993	.8655353	.9084192
18	.0832488	.1686691	.2875908	.4276347	.5705433	.6993577	.8034489	.8797548
19	.0496751	.1112082	.2067669	.3312129	.4706831	.6079131	.7283360	.8237719
20	.0281793	.0698767	.1420917	.2460942	.3740851	.5115437	.6425259	.7547402
21	.0152110	.0418631	.0933310	.1752909	.2860367	.4158466	.5501539	.6745321
22	.0077208	.0239285	.0586063	.1196597	.2102202	.3260843	.4562294	.5865032
23	.0036342	.0130590	.0351964	.0784812	.1484425	.2463799	.3658208	.4950446
24	.0017942	.0068103	.0202264	.0499872	.1006744	.1798476	.2832738	.4049115
25	.0008022	.0033967	.0111295	.0295140	.0655804	.1255158	.2116521	.3205011
26	.0003430	.0016217	.0058646	.0170227	.0410388	.0845797	.1525011	.2452553
27	.0001404	.0007417	.0029660	.0094231	.0246778	.0548479	.1059297	.1813101
28	.0000551	.0003253	.0014386	.0050092	.0142649	.0342328	.0709250	.1294322
29	.0000207	.0001369	.0006700	.0025586	.0079300	.0205693	.0457746	.0892003
30	.0000075	.0000553	.0002998	.0012565	.0042415	.0119023	.0284805	.0593402
31	.0000026	.0000215	.0001290	.0005936	.0021839	.0066349	.0170867	.0381064
32	.0000009	.0000080	.0000534	.0002700	.0010830	.0035645	.0098873	.0236243
33	.0000003	.0000029	.0000213	.0001183	.0005175	.0018464	.0055200	.0141420
34	.0000001	.0000010	.0000082	.0000495	.0002384	.0009225	.0029743	.0081762
35		.0000003	.0000030	.0000203	.0001060	.0004448	.0015473	.0045667
36		.0000001	.0000011	.0000080	.0000454	.0002070	.0007775	.0024648
37			.0000004	.0000030	.0000188	.0000931	.0003774	.0012850
38			.0000001	.0000011	.0000075	.0000404	.0001771	.0006488
39				.0000004	.0000029	.0000170	.0000804	.0003166
40				.0000001	.0000011	.0000069	.0000353	.0001495
41					.0000004	.0000027	.0000150	.0000683
42					.0000001	.0000010	.0000062	.0000302
43						.0000004	.0000025	.0000130
44						.0000001	.0000009	.0000054
45							.0000004	.0000022
46							.0000001	.0000008
47								.0000003
48								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999965	.9999990	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999853	.9999958	.9999988	.9999997	.9999999	1.0000000	1.0000000	1.0000000
9	.9999472	.9999838	.9999952	.9999986	.9999996	.9999999	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 141

x	.17	.18	.19	.20	.21	.22	.23	.24
10	.9998317	.9999448	.9999827	.9999948	.9999985	.9999996	.9999999	1.0000000
11	.9995196	.9998318	.9999438	.9999820	.9999945	.9999984	.9999995	.9999999
12	.9987583	.9995365	.9998352	.9999440	.9999818	.9999943	.9999983	.9999995
13	.9970690	.9988342	.9995592	.9998412	.9999454	.9999820	.9999943	.9999983
14	.9936356	.9973045	.9989169	.9995860	.9998492	.9999476	.9999826	.9999944
15	.9873062	.9942345	.9975393	.9990028	.9996155	.9998587	.9999504	.9999833
16	.9760567	.9885287	.9948034	.9977684	.9990895	.9996464	.9998690	.9999537
17	.9580730	.9786653	.9897496	.9953381	.9979884	.9991748	.9996776	.9998799
18	.9309892	.9627453	.9810330	.9908706	.9958362	.9981969	.9992573	.9997085
19	.8927746	.9386710	.9669477	.9831766	.9918950	.9962967	.9983923	.9993358
20	.8431044	.9044602	.9455589	.9707245	.9851129	.9928272	.9967197	.9985738
21	.7787972	.8586511	.9149544	.9517350	.9741155	.9868579	.9936721	.9971059
22	.7040653	.8007114	.8735907	.9243810	.9572714	.9771568	.9884269	.9944350
23	.6206175	.7311380	.8206675	.8870802	.9328485	.9622321	.9798810	.9898344
24	.5321652	.6525479	.7564361	.8388324	.8992585	.9404523	.9666736	.9823176
25	.4430913	.5675124	.6823628	.7795279	.8553577	.9102491	.9472772	.9706468
26	.3577090	.4801539	.6010445	.7101415	.8007429	.8703809	.9201624	.9533986
27	.2796860	.3945983	.5159423	.6327491	.7359708	.8202115	.8840275	.9290975
28	.2116204	.3146073	.4309179	.5503404	.6626354	.7599414	.8380549	.8964119
29	.1548600	.2431170	.3497173	.4664602	.5832661	.6907302	.7821458	.8543874
30	.1095601	.1819686	.2754995	.3847493	.5010559	.6146652	.7170789	.8026768
31	.0749212	.1318566	.2105054	.3084858	.4194702	.5345694	.6445068	.7417127
32	.0495176	.0924689	.1559166	.2402176	.3418155	.4536786	.5668942	.6727787
33	.0316317	.0627479	.1119002	.1815497	.2708572	.3752509	.4872026	.5979490
34	.0195315	.0411986	.0777970	.1331042	.2085544	.3021857	.4085774	.5198971
35	.0116590	.0261728	.0523867	.0946327	.1559473	.2367246	.3339765	.4416034
36	.0067296	.0160893	.0341648	.0652296	.1131957	.1802793	.2658531	.3660177
37	.0037568	.0095719	.0215794	.0435856	.0797340	.1334024	.2059379	.2957362
38	.0020289	.0055120	.0132018	.0282301	.0544917	.0958815	.1551498	.2327529
39	.0010602	.0030729	.0078236	.0177236	.0361276	.0669179	.1136306	.1783185
40	.0005363	.0016589	.0044918	.0107867	.0232352	.0453428	.0808771	.1339197
41	.0002626	.0008674	.0024988	.0063644	.0144961	.0298253	.0559291	.0963618
42	.0001246	.0004393	.0013472	.0036409	.0087735	.0190436	.0375717	.0679227
43	.0000572	.0002156	.0007041	.0020198	.0051515	.0118032	.0245161	.0465398
44	.0000255	.0001026	.0003568	.0010867	.0029349	.0071014	.0155376	.0309935
45	.0000110	.0000473	.0001753	.0005672	.0016225	.0041477	.0095643	.0200589
46	.0000046	.0000212	.0000835	.0002872	.0008705	.0023520	.0057183	.0126158
47	.0000019	.0000092	.0000386	.0001411	.0004533	.0012949	.0033208	.0077104
48	.0000007	.0000039	.0000173	.0000673	.0002293	.0006923	.0018733	.0045794
49	.0000003	.0000016	.0000075	.0000311	.0001135	.0003595	.0010266	.0026431
50	.0000001	.0000006	.0000032	.0000140	.0000535	.0001813	.0005466	.0014825
51		.0000002	.0000013	.0000061	.0000248	.0000888	.0002827	.0008082
52		.0000001	.0000005	.0000026	.0000112	.0000423	.0001421	.0004282
53			.0000002	.0000011	.0000049	.0000195	.0000694	.0002205
54			.0000001	.0000004	.0000021	.0000088	.0000330	.0001104
55				.0000002	.0000009	.0000038	.0000152	.0000537
56				.0000001	.0000003	.0000016	.0000068	.0000254
57					.0000001	.0000007	.0000030	.0000117
58					.0000001	.0000003	.0000013	.0000052
59						.0000001	.0000005	.0000023
60							.0000002	.0000010
61							.0000001	.0000004
62								.0000002
63								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999983	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999946	.9999984	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999843	.9999949	.9999984	.9999995	.9999999	1.0000000	1.0000000	1.0000000
17	.9999573	.9999855	.9999953	.9999985	.9999996	.9999999	1.0000000	1.0000000
18	.9998909	.9999610	.9999867	.9999956	.9999986	.9999996	.9999999	1.0000000
19	.9997385	.9999018	.9999647	.9999879	.9999960	.9999988	.9999996	.9999999
20	.9994096	.9997670	.9999123	.9999684	.9999891	.9999964	.9999989	.9999997
21	.9987409	.9994783	.9997939	.9999223	.9999720	.9999904	.9999968	.9999990
22	.9974565	.9988937	.9995415	.9998188	.9999316	.9999754	.9999915	.9999978
23	.9951214	.9977734	.9990325	.9995993	.9998417	.9999403	.9999785	.9999926
24	.9910940	.9957368	.9980583	.9991577	.9996517	.9998626	.9999463	.9999814
25	.9044937	.9922187	.9968868	.9983133	.9992701	.9996968	.9998814	.9999554
26	.9741971	.9864338	.9938204	.9967766	.9985406	.9993704	.9997410	.9998983
27	.9588843	.9773655	.9881603	.9941102	.9972113	.9987483	.9994594	.9997784
28	.9371438	.9637948	.9801889	.9896936	.9948987	.9975959	.9988805	.9995379
29	.9076389	.9443880	.9681851	.9827010	.9910529	.9955984	.9978349	.9990773
30	.8693164	.9178046	.9508853	.9721047	.9849391	.9928548	.9962093	.9983287
31	.8216263	.8839428	.9269974	.9567804	.9755986	.9869098	.9933151	.9967487
32	.7647087	.8390045	.8953614	.9358963	.9619481	.9787075	.9886593	.9944803
33	.6994843	.7861136	.8551393	.9066610	.9427823	.9666239	.9814688	.9908034
34	.6276746	.7246396	.8060012	.8698761	.9169251	.9495104	.9707983	.9853162
35	.5516413	.6560312	.7488709	.8244360	.8833773	.9262390	.9555704	.9774510
36	.4741595	.5823367	.6829939	.7704126	.8414863	.8957280	.9346849	.9660973
37	.3981185	.5060978	.6119045	.7083526	.7911057	.8572214	.9069865	.9493688
38	.3261762	.4300805	.5378863	.6408836	.7327087	.8103962	.8717101	.9278456

$$F(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 141

x	.25	.26	.27	.28	.29	.30	.31	.32
39	.2605501	.3569833	.4617576	.5676231	.6674287	.7554735	.8203343	.8850208
40	.2027747	.2891544	.3879778	.4929960	.5970093	.6933002	.7768670	.8449731
41	.1536693	.2283834	.3183923	.4189908	.5236640	.6153705	.7179038	.7969160
42	.1133453	.1757846	.2549912	.3480942	.4498652	.5 36452	.6526450	.7410055
43	.0813422	.1317830	.1991585	.2824492	.3780958	.4404562	.5828381	.6767840
44	.0567816	.0961690	.1516145	.2236740	.3106047	.4082398	.5106314	.6111552
45	.0385473	.0683348	.1124484	.1727652	.2492060	.3393066	.4383771	.5408708
46	.0254455	.0472392	.0812228	.1300898	.1951483	.2756242	.3684033	.4683671
47	.0163313	.0317707	.0571202	.0954547	.1490684	.2186667	.3027946	.3977807
48	.0101905	.0207853	.0391011	.0682297	.1110253	.1693265	.2432147	.3305811
49	.0061819	.0132267	.0260497	.0474950	.0805952	.1279160	.1907944	.2686797
50	.0036459	.0081862	.0168877	.0321928	.0570052	.0948323	.1460953	.2133921
51	.0020904	.0049276	.0106526	.0212417	.0398761	.0676703	.1091441	.1655195
52	.0011653	.0028847	.0065377	.0136431	.0263550	.0473581	.0795222	.1253220
53	.0006316	.0016424	.0039036	.0085287	.0172207	.0322914	.0564885	.0925819
54	.0003328	.0009095	.0022676	.0051088	.0109556	.0214402	.0391108	.0667096
55	.0001706	.0004998	.0012814	.0030721	.0067854	.0138752	.0263877	.0466686
56	.0000850	.0002566	.0007045	.0017700	.0040910	.0087413	.0173457	.0320992
57	.0000412	.0001307	.0003768	.0009924	.0024009	.0053624	.0111078	.0214255
58	.0000194	.0000648	.0001961	.0005414	.0013715	.0032029	.0069275	.0139358
59	.0000089	.0000312	.0000993	.0002875	.0007626	.0018626	.0042079	.0088303
60	.0000040	.0000146	.0000489	.0001485	.0004127	.0010544	.0024890	.0054507
61	.0000017	.0000067	.0000234	.0000747	.0002173	.0005811	.0014336	.0032778
62	.0000007	.0000030	.0000109	.0000365	.0001114	.0003118	.0008040	.0019190
63	.0000003	.0000013	.0000050	.0000174	.0000556	.0001628	.0004390	.0010943
64	.0000001	.0000005	.0000022	.0000081	.0000270	.0000828	.0002334	.0006077
65		.0000002	.0000009	.0000036	.0000128	.0000409	.0001208	.0003286
66		.0000001	.0000004	.0000016	.0000059	.0000197	.0000608	.0001730
67			.0000002	.0000007	.0000026	.0000092	.0000298	.0000886
68			.0000001	.0000003	.0000011	.0000042	.0000142	.0000442
69				.0000001	.0000005	.0000019	.0000066	.0000215
70					.0000002	.0000008	.0000030	.0000102
71					.0000001	.0000003	.0000013	.0000047
72						.0000001	.0000006	.0000021
73						.0000001	.0000002	.0000009
74							.0000001	.0000004
75								.0000002
76								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999976	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999936	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
25	.9999840	.9999945	.9999982	.9999994	.9999998	1.0000000	1.0000000	1.0000000
26	.9999619	.9999864	.9999953	.9999985	.9999995	.9999999	1.0000000	1.0000000
27	.9999133	.9999676	.9999885	.9999961	.9999987	.9999996	.9999999	1.0000000
28	.9998114	.9999265	.9999727	.9999903	.9999967	.9999989	.9999997	.9999999
29	.9996070	.9998403	.9999381	.9999771	.9999919	.9999973	.9999991	.9999997
30	.9992147	.9996673	.9998656	.9999482	.9999810	.9999933	.9999978	.9999993
31	.9984933	.9993345	.9997197	.9998875	.9999569	.9999843	.9999945	.9999988
32	.9972211	.9987206	.9994386	.9997651	.9999063	.9999644	.9999871	.9999955
33	.9950678	.9976336	.9989181	.9995206	.9998048	.9999284	.9999707	.9999895
34	.9915630	.9957839	.9979985	.9990891	.9996063	.9998376	.9999362	.9999761
35	.9860807	.9927572	.9964093	.9983038	.9992364	.9996724	.9998660	.9999478
36	.9778256	.9879904	.9938039	.9969833	.9985727	.9993688	.9997289	.9998901
37	.9658536	.9807600	.9896712	.9947167	.9974250	.9988041	.9994709	.9997769
38	.9491199	.9701897	.9833572	.9911464	.9955181	.9978135	.9990086	.9993680
39	.9265630	.9552869	.9740524	.9856500	.9924375	.9962085	.9981838	.9991780
40	.8972208	.9350111	.9608201	.9774846	.9876686	.9935648	.9967997	.9984840
41	.8603679	.9083760	.9426511	.9657725	.9805265	.9894407	.9943441	.9973144
42	.8156534	.8745753	.9185509	.9495433	.9701936	.9838149	.9909917	.9953936
43	.7632164	.8331170	.8876531	.9278078	.9557448	.9741897	.9855840	.9923447
44	.7037537	.7839456	.8493486	.8996591	.9368076	.9613095	.9776839	.9876681
45	.6385224	.7275271	.8034101	.8643932	.9106814	.9438087	.9668889	.9807165
46	.5698668	.6648779	.7500901	.8216333	.8782988	.9206875	.9506675	.9707310
47	.4980786	.5975838	.6901716	.7714369	.8386438	.8911131	.9298848	.9568385
48	.4278070	.5273904	.6249581	.7143652	.7915701	.8544749	.9038886	.9381175
49	.3588476	.4566391	.5561910	.6514972	.7374291	.8104993	.8691639	.9136766
50	.2949442	.3874591	.4859135	.5843791	.6770795	.7593439	.8288407	.8807815
51	.2370305	.3218867	.4168888	.5149113	.6118633	.7016539	.7800989	.8448163
52	.1861335	.2616131	.3493836	.4451893	.5438280	.6385635	.7251798	.7996909
53	.1427456	.2078726	.2870368	.3773104	.4748538	.5716375	.6644073	.7478833
54	.1068398	.1613836	.2306622	.3131936	.4058486	.5027563	.5991617	.6893336

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 141

x	.33	.34	.35	.36	.37	.38	.39	.40
55	.0780559	.1223558	.1811939	.2544198	.3399717	.4339573	.5311827	.6860067
56	.0556147	.0905539	.1390594	.2021246	.2790560	.3672567	.4624337	.5592255
57	.0386402	.0653939	.1042174	.1569499	.2241145	.3044750	.3949326	.4908543
58	.0261727	.0460647	.0762403	.1190566	.1759966	.2470940	.3305764	.4288829
59	.0172792	.0316444	.0544227	.0881867	.1350688	.1961595	.2700860	.3572554
60	.0111171	.0211938	.0378959	.0637589	.1012541	.1522428	.2173894	.2957064
61	.0069691	.0138363	.0257338	.0449800	.0741129	.1154567	.1705582	.2396284
62	.0042562	.0088033	.0170379	.0309536	.0529466	.0855181	.1308002	.1899856
63	.0025321	.0054578	.0109961	.0207731	.0369065	.0618414	.0980015	.1472881
64	.0014672	.0032967	.0069165	.0135922	.0250937	.0436444	.0717061	.1115829
65	.0008280	.0019398	.0042393	.0086694	.0166384	.0300517	.0512168	.0825773
66	.0004550	.0011118	.0025316	.0053891	.0107559	.0201826	.0356986	.0596703
67	.0002435	.0006206	.0014728	.0032644	.0067776	.0132174	.0242739	.0420852
68	.0001269	.0003374	.0008346	.0019265	.0041621	.0084386	.0160974	.0289619
69	.0000644	.0001786	.0004606	.0011075	.0024905	.0052513	.0104086	.0194411
70	.0000318	.0000920	.0002475	.0006202	.0014519	.0031845	.0065606	.0127860
71	.0000153	.0000462	.0001295	.0003382	.0008245	.0018815	.0040301	.0081213
72	.0000071	.0000226	.0000660	.0001796	.0004560	.0010830	.0024123	.0050515
73	.0000033	.0000107	.0000327	.0000929	.0002456	.0006071	.0014067	.0030619
74	.0000014	.0000050	.0000158	.0000467	.0001288	.0003314	.0007990	.0018081
75	.0000006	.0000022	.0000074	.0000229	.0000657	.0001762	.0004419	.0010400
76	.0000003	.0000010	.0000034	.0000109	.0000327	.0000912	.0002380	.0005826
77	.0000001	.0000004	.0000015	.0000051	.0000158	.0000459	.0001248	.0003178
78		.0000002	.0000007	.0000023	.0000074	.0000225	.0000637	.0001687
79		.0000001	.0000003	.0000010	.0000034	.0000107	.0000316	.0000872
80			.0000001	.0000004	.0000015	.0000050	.0000153	.0000438
81				.0000002	.0000007	.0000022	.0000072	.0000215
82				.0000001	.0000003	.0000010	.0000033	.0000102
83					.0000001	.0000004	.0000015	.0000047
84						.0000002	.0000006	.0000021
85						.0000001	.0000003	.0000009
86							.0000001	.0000004
87								.0000002
88								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999985	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999964	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999915	.9999971	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000
35	.9999806	.9999931	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000
36	.9999576	.9999844	.9999945	.9999982	.9999994	.9999998	1.0000000	1.0000000
37	.9999104	.9999657	.9999875	.9999957	.9999986	.9999996	.9999999	1.0000000
38	.9998174	.9999274	.9999725	.9999901	.9999966	.9999989	.9999997	.9999999
39	.9996406	.9998515	.9999416	.9999781	.9999922	.9999974	.9999992	.9999997
40	.9993160	.9997062	.9998799	.9999533	.9999827	.9999939	.9999980	.9999994
41	.9987402	.9994379	.9997612	.9999034	.9999629	.9999864	.9999953	.9999984
42	.9977554	.9989594	.9995406	.9998070	.9999229	.9999707	.9999894	.9999964
43	.9961274	.9981343	.9991443	.9996266	.9998450	.9999388	.9999771	.9999918
44	.9935211	.9967588	.9984562	.9993002	.9996983	.9999763	.9999518	.9999828
45	.9894872	.9945402	.9974999	.9987291	.9994309	.9997577	.9999020	.9999624
46	.9834448	.9910772	.9954197	.9977618	.9989593	.9995399	.9998067	.9999289
47	.9746817	.9858430	.9924525	.9961756	.9981542	.9991527	.9996304	.9998468
48	.9623739	.9781837	.9879457	.9936565	.9968226	.9984860	.9993143	.9997049
49	.9456221	.9673209	.9812773	.9896805	.9946090	.9973739	.9987653	.9994485
50	.9235292	.9523912	.9717296	.9840004	.9913759	.9955758	.9978414	.9989991
51	.8953803	.9324987	.9584767	.9756439	.9863881	.9927574	.9963338	.9982359
52	.8603539	.9067959	.9406374	.9639285	.9791065	.9884735	.9939484	.9969788
53	.8181243	.8745821	.9173453	.9479969	.9687951	.9821575	.9902873	.9949705
54	.7689631	.8354099	.8878388	.9269765	.9546280	.9731228	.9848351	.9918575
55	.7132902	.7891838	.8515645	.9000616	.9357385	.9605807	.9769560	.9871747
56	.6520929	.7362339	.8082783	.8666102	.9112914	.9436805	.9658036	.9803371
57	.5867837	.6773499	.7581303	.8262466	.8805739	.9215717	.9508519	.9706443
58	.5191053	.6137637	.7017157	.7789534	.8430955	.8934867	.9309474	.9573019

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 141

x	.41	.42	.43	.44	.45	.46	.47	.48
59	.45099917	.54707777	.64007794	.72513710	.79868540	.85883780	.90538350	.93946490
60	.38440440	.47914440	.57466760	.66565240	.74756930	.81731570	.87349210	.91630840
61	.32116530	.41191390	.50782850	.60177720	.69041220	.76897580	.83484130	.88706190
62	.26261100	.34786770	.43967290	.53513460	.62831450	.71429680	.78933880	.84186870
63	.21048670	.28668640	.37391430	.46757060	.56875690	.65419440	.73785010	.79060680
64	.16449130	.23201490	.31170820	.40100250	.49549640	.58999390	.67933870	.73398740
65	.12627520	.18360810	.25451540	.33725760	.42864270	.52334140	.61674980	.67036760
66	.09448620	.14208360	.20340470	.27792580	.36342140	.45608110	.55099850	.60289170
67	.06904850	.10745810	.15900550	.22424460	.30217640	.39010480	.48385690	.53303390
68	.04926070	.07939060	.12151200	.17703040	.24608360	.32719090	.41780680	.46211640
69	.03439660	.05727250	.09073180	.13666020	.19614000	.26886930	.35388690	.39146980
70	.02329490	.04032750	.06616550	.10310200	.15290820	.21630780	.29254200	.32217660
71	.01543130	.02770630	.04710350	.07598150	.11652610	.17025400	.23749960	.25617060
72	.00996470	.01856690	.03272350	.05467250	.08675890	.13102300	.18868080	.19567890
73	.00627480	.01213250	.02217670	.03839480	.06300050	.09853220	.14660530	.14620190
74	.00384980	.00772640	.01465630	.02630600	.04476080	.07237150	.11133130	.10632950
75	.00230130	.00479790	.00944300	.01757780	.03100130	.05189330	.08258600	.07618120
76	.00134000	.00290210	.00592970	.01145140	.02093850	.03630970	.05981540	.05376480
77	.00075980	.00170990	.00362800	.00737120	.01378860	.02478150	.04227890	.03685080
78	.00041950	.00098120	.00216230	.00469860	.00885040	.01649150	.02915130	.02489560
79	.00022550	.00054820	.00125500	.00271120	.00553520	.01069730	.01959950	.01634090
80	.00011800	.00029810	.00070920	.00159120	.00337210	.00676110	.01284420	.01052700
81	.00006000	.00015760	.00039010	.00090920	.00200050	.00416240	.00820170	.00658360
82	.00002970	.00008120	.00020880	.00050560	.00115540	.00249540	.00510130	.00398460
83	.00001430	.00004070	.00010880	.00027360	.00064950	.00145630	.00308950	.00236960
84	.00000670	.00001980	.00005510	.00014410	.00035520	.00082710	.00182140	.00137980
85	.00000310	.00000940	.00002710	.00007380	.00018900	.00045700	.00104480	.00078230
86	.00000140	.00000430	.00001300	.00003670	.00009780	.00024560	.00058310	.00043990
87	.00000060	.00000190	.00000600	.00001780	.00004920	.00012830	.00031640	.00024310
88	.00000020	.00000080	.00000270	.00000840	.00002400	.00006520	.00016690	.00013090
89	.00000010	.00000040	.00000120	.00000380	.00001140	.00003220	.00008560	.00006930
90		.00000010	.00000050	.00000170	.00000530	.00001540	.00004260	.00003560
91		.00000010	.00000020	.00000070	.00000240	.00000720	.00002060	.00001750
92			.00000010	.00000030	.00000100	.00000320	.00000970	.00000830
93				.00000010	.00000040	.00000140	.00000440	.00000380
94					.00000020	.00000060	.00000200	.00000170
95					.00000010	.00000020	.00000080	.00000070
96						.00000010	.00000030	.00000030
97							.00000010	.00000010
98							.00000010	.00000000
99								.00000010

x	.49	.50
1	1.00000000	1.00000000
2	1.00000000	1.00000000
3	1.00000000	1.00000000
4	1.00000000	1.00000000
5	1.00000000	1.00000000
6	1.00000000	1.00000000
7	1.00000000	1.00000000
8	1.00000000	1.00000000
9	1.00000000	1.00000000
10	1.00000000	1.00000000
11	1.00000000	1.00000000
12	1.00000000	1.00000000
13	1.00000000	1.00000000
14	1.00000000	1.00000000
15	1.00000000	1.00000000
16	1.00000000	1.00000000
17	1.00000000	1.00000000
18	1.00000000	1.00000000
19	1.00000000	1.00000000
20	1.00000000	1.00000000
21	1.00000000	1.00000000
22	1.00000000	1.00000000
23	1.00000000	1.00000000
24	1.00000000	1.00000000
25	1.00000000	1.00000000
26	1.00000000	1.00000000
27	1.00000000	1.00000000
28	1.00000000	1.00000000
29	1.00000000	1.00000000
30	1.00000000	1.00000000
31	1.00000000	1.00000000
32	1.00000000	1.00000000
33	1.00000000	1.00000000
34	1.00000000	1.00000000
35	1.00000000	1.00000000
36	1.00000000	1.00000000
37	1.00000000	1.00000000
38	1.00000000	1.00000000
39	.99999999	1.00000000
40	.99999998	.99999999
41	.99999995	.99999999
42	.99999988	.99999996
43	.99999972	.99999991
44	.99999938	.99999979
45	.99999863	.99999953
46	.99997708	.99998895
47	.99996398	.99997775
48	.99987995	.99995533
49	.99977661	.99990059
50	.99953893	.99981159
51	.99919370	.99965030
52	.99856770	.99935480

$$P(r,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

x	.49	.50
53	.9975249	.9988434
54	.9958435	.9979847
55	.9932109	.9965853
56	.9892099	.9943715
57	.9833065	.9909719
58	.9748484	.9859033
59	.9630791	.9785602
60	.9471716	.9682314
61	.9262839	.9541154
62	.8990355	.9353712
63	.8655088	.9111851
64	.8267965	.8808565
65	.7801898	.8438935
66	.7271438	.8001066
67	.6684561	.7496854
68	.6053371	.6932436
69	.5393424	.6318218
70	.4722600	.5666192
71	.4059669	.5000000
72	.3422734	.4331608
73	.2827777	.3681782
74	.2287473	.3067554
75	.1810447	.2501146
76	.1401016	.1998934
77	.1059401	.1561065
78	.0782334	.1191435
79	.0563911	.0888149
80	.0396557	.0646288
81	.0271944	.0458846
82	.0181780	.0317686
83	.0118393	.0214398
84	.0075102	.0140977
85	.0046983	.0090281
86	.0027880	.0056285
87	.0016303	.0034148
88	.0009272	.0020153
89	.0005126	.0011566
90	.0002755	.0006452
91	.0001438	.0003497
92	.0000729	.0001841
93	.0000350	.0000941
94	.0000171	.0000467
95	.0000079	.0000225
96	.0000036	.0000105
97	.0000016	.0000047
98	.0000007	.0000021
99	.0000003	.0000009
100	.0000001	.0000004
101		.0000001
102		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 142

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7600075	.9438321	.9867692	.9969625	.9993133	.9998472	.9999665	.9999888
2	.4157759	.7787811	.9804626	.9939907	.9941813	.9994681	.9999089	.9999838
3	.1706418	.5480866	.9019668	.9861984	.9751389	.9933894	.9977109	.9993881
4	.0550895	.3166034	.6191067	.8355469	.9383600	.9736638	.9910445	.9971456
5	.0145297	.1567369	.4225791	.6749159	.8488265	.9324836	.9736070	.9904522
6	.0032882	.0666896	.2548216	.5039904	.7185664	.8599365	.9373885	.9743928
7	.0006142	.0247288	.1363537	.3413737	.5692361	.7548029	.8751257	.9428066
8	.0001084	.0080913	.0651682	.2097316	.4165375	.6230803	.7840858	.8864369
9	.0000151	.0023615	.0280160	.1171708	.2809171	.4818446	.6684453	.8095889
10	.0000020	.0006205	.0109001	.0597488	.1746414	.3476206	.5388531	.7078466
11	.0000002	.0001480	.0038710	.0279274	.1004484	.2336730	.4091815	.5888654
12		.0000322	.0012592	.0120168	.0532633	.1463940	.2919446	.4653788
13		.0000065	.0003775	.0047796	.0262676	.0855773	.1956688	.3481350
14		.0000012	.0001047	.0017641	.0120592	.0467580	.1231915	.2461858
15		.0000002	.0000270	.0006064	.0051687	.0239267	.0789896	.1644993
16			.0000065	.0001948	.0020741	.0114909	.0486467	.1038654
17			.0000015	.0000586	.0007812	.0051903	.0213594	.0680407
18			.0000003	.0000166	.0002769	.0022095	.0105995	.0350849
19			.0000001	.0000044	.0000926	.0008883	.0049753	.0188024
20				.0000011	.0000292	.0003379	.0022725	.0095620
21				.0000003	.0000088	.0001218	.0009336	.0046804
22				.0000001	.0000025	.0000417	.0003744	.0021840
23					.0000007	.0000136	.0001489	.0009301
24					.0000002	.0000042	.0000520	.0003884
25						.0000012	.0000180	.0001549
26						.0000004	.0000060	.0000590
27						.0000001	.0000019	.0000215
28							.0000006	.0000075
29							.0000008	.0000025
30								.0000008
31								.0000003
32								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999985	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999770	.9999947	.9999988	.9999997	.9999999	1.0000000	1.0000000	1.0000000
3	.9998275	.9999554	.9999888	.9999973	.9999994	.9999999	1.0000000	1.0000000
4	.9991773	.9997516	.9999314	.9999818	.9999953	.9999988	.9999997	.9999999
5	.9967653	.9989647	.9996849	.9999084	.9999745	.9999931	.9999982	.9999996
6	.9900904	.9965516	.9988440	.9996321	.9998803	.9999675	.9999909	.9999976
7	.9756686	.9904295	.9964710	.9987718	.9995944	.9998724	.9999616	.9999889
8	.9475726	.9772136	.9907725	.9964926	.9987412	.9995714	.9998810	.9999749
9	.9006817	.9524338	.9788873	.9912478	.9965098	.9987446	.9995615	.9998941
10	.8316335	.9114400	.9570163	.9805992	.9918033	.9967405	.9987744	.9995826
11	.7408086	.8508603	.9210642	.9612866	.9822909	.9924015	.9969278	.9988841
12	.6330164	.7700873	.8677421	.9296841	.9652341	.9839852	.9930153	.9971389
13	.5166364	.6721127	.7957971	.8826395	.9374107	.9666619	.9854793	.9936857
14	.4015353	.5632520	.7068764	.8184878	.8958355	.9443401	.9721804	.9869396
15	.2966433	.4517994	.6056095	.7378816	.8385988	.9075574	.9505558	.9752047
16	.2081191	.3461258	.4988052	.6440853	.7656028	.8564609	.9179916	.9561310
17	.1386251	.2529276	.3940259	.5428614	.6790381	.7904364	.8733778	.9278938
18	.0876838	.1761761	.2980418	.4399518	.5831546	.7107735	.8187168	.8865811
19	.0526967	.1169543	.2156584	.3427835	.4836649	.6207153	.7396029	.8287891
20	.0301139	.0740098	.1492060	.2563084	.3866429	.5250354	.6583974	.7657853
21	.0163781	.0446644	.0986947	.1837873	.2974430	.4292443	.5640097	.6873654
22	.0084860	.0257219	.0624261	.1263355	.2200811	.3386510	.4703181	.6008878
23	.0041930	.0141459	.0377715	.0832466	.1564748	.2575365	.3793881	.5096780
24	.0019778	.0074352	.0218731	.0529505	.1066843	.1886461	.2956558	.4193388
25	.0008915	.0037381	.0121352	.0318628	.0701486	.1330363	.2283954	.3340047
26	.0003844	.0017992	.0064464	.0185217	.0440298	.0903107	.1613737	.2578946
27	.0001587	.0008297	.0032857	.0103351	.0260047	.0590103	.1129154	.1915115
28	.0000628	.0003669	.0016066	.0055389	.0156106	.0371182	.0761757	.1377376
29	.0000238	.0001557	.0007545	.0028527	.0087535	.0224822	.0495478	.0953774
30	.0000087	.0000635	.0003405	.0014128	.0047210	.0131157	.0310746	.0641178
31	.0000030	.0000249	.0001478	.0006732	.0024514	.0073721	.0187588	.0415038
32	.0000010	.0000094	.0000617	.0003088	.0012261	.0039944	.0109672	.0259415
33	.0000003	.0000034	.0000248	.0001365	.0005910	.0020869	.0061751	.0156398
34	.0000001	.0000012	.0000096	.0000581	.0002747	.0010519	.0033961	.0091308
35		.0000004	.0000036	.0000239	.0001232	.0005117	.0017614	.0051448
36		.0000001	.0000013	.0000095	.0000533	.0002403	.0008929	.0028011
37			.0000004	.0000036	.0000223	.0001090	.0004374	.0014746
38			.0000002	.0000013	.0000090	.0000478	.0002078	.0007807
39				.0000005	.0000035	.0000203	.0000949	.0003697
40				.0000002	.0000013	.0000083	.0000409	.0001768
41				.0000001	.0000005	.0000033	.0000180	.0000813
42					.0000002	.0000013	.0000075	.0000363
43					.0000001	.0000005	.0000030	.0000157
44						.0000003	.0000011	.0000066
45						.0000001	.0000004	.0000027
46							.0000002	.0000011
47							.0000001	.0000004
48								.0000001
49								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999969	.9999998	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999872	.9999964	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000

$$B(c,n,p) = \sum_{i=c}^{n} \binom{n}{i} p^i (1-p)^{n-i}$$

n = 142

x	.17	.18	.19	.20	.21	.22	.23	.24
9	.9999537	.9999859	.9999959	.9999992	.9999997	.9999999	1.0000000	1.0000000
10	.9998514	.9999510	.9999850	.9999955	.9999987	.9999997	.9999999	1.0000000
11	.9995787	.9998521	.9999513	.9999846	.9999953	.9999986	.9999996	.9999999
12	.9988877	.9995897	.9998550	.9999516	.9999845	.9999952	.9999986	.9999996
13	.9973563	.9989606	.9996116	.9998618	.9999530	.9999847	.9999953	.9999986
14	.9943193	.9975799	.9990389	.9996371	.9998694	.9999551	.9999853	.9999954
15	.9883993	.9947871	.9978010	.9991195	.9996646	.9998782	.9999578	.9999860
16	.9779581	.9895557	.9953338	.9980153	.9992000	.9996931	.9998877	.9999608
17	.9611302	.9804407	.9907098	.9958241	.9982196	.9992786	.9997217	.9998976
18	.9355938	.9656109	.9821891	.9917641	.9962882	.9984120	.9993540	.9997497
19	.8993710	.9430044	.9696339	.9847154	.9927807	.9967148	.9985912	.9994852
20	.8507183	.9106182	.9496327	.9732149	.9865371	.9935935	.9971044	.9987567
21	.7895595	.8668968	.9207693	.9555329	.9764250	.9881711	.9943730	.9974588
22	.7167864	.8111406	.8814498	.9298518	.9608087	.9792916	.9896333	.9950760
23	.6348070	.7430253	.8307039	.8945464	.9379773	.9655155	.9818465	.9909385
24	.5472081	.6667308	.7686417	.8484020	.9063124	.9452438	.9697113	.9841216
25	.4582330	.5882188	.6964371	.7913880	.8645769	.9168930	.9517384	.9734478
26	.3723240	.4958784	.6164950	.7240180	.8128120	.8791519	.9263988	.9573382
27	.2939499	.4099983	.5321117	.6482275	.7495730	.8313487	.8933385	.9349298
28	.2211015	.3290056	.4470725	.5660221	.6700359	.7732000	.8486886	.9043564
29	.1645093	.2559853	.3651454	.4803268	.5999336	.7059567	.7950049	.8644733
30	.1173611	.1989753	.2896000	.4010915	.5183201	.6313995	.7380397	.8150873
31	.0800098	.1480768	.2220543	.3297385	.4366032	.5521905	.6611970	.7563440
32	.0538368	.0995587	.1662885	.2530712	.3581230	.4714746	.5847451	.6893828
33	.0346783	.0600977	.1208633	.1932053	.2857505	.3925050	.5055317	.6159081
34	.0215885	.0450775	.0843766	.1437933	.2215380	.3182600	.4266612	.5386895
35	.0129974	.0288775	.0578146	.1023870	.1669948	.2511260	.3511347	.4603979
36	.0075676	.0179044	.0376270	.0711102	.1221735	.1936973	.2815215	.3841513
37	.0042688	.0107451	.0239707	.0479144	.0867609	.1437154	.2197184	.3126013
38	.0023296	.0062428	.0147936	.0313013	.0597926	.1041361	.1668311	.2478669
39	.0012240	.0035119	.0088454	.0198249	.0399841	.0732899	.1231800	.1913747
40	.0006254	.0019154	.0051249	.0121741	.0259426	.0500093	.0884104	.1438 54
41	.0003092	.0010098	.0028775	.0072489	.0163313	.0332391	.0616671	.1051357
42	.0001480	.0005164	.0015660	.0041856	.0099758	.0214156	.0417939	.0747481
43	.0000687	.0002559	.0008063	.0023440	.0059121	.0133961	.0275 89	.0516717
44	.0000309	.0001229	.0004227	.0012733	.0034004	.0081358	.0176027	.0347246
45	.0000135	.0000573	.0002098	.0006711	.0018981	.0047975	.0109382	.0228638
46	.0000057	.0000259	.0001010	.0003432	.0010284	.0027470	.0066029	.0144021
47	.0000023	.0000113	.0000472	.0001703	.0005409	.0015275	.0038723	.0088677
48	.0000009	.0000048	.0000214	.0000820	.0002762	.0008249	.0022061	.0053308
49	.0000004	.0000020	.0000094	.0000384	.0001370	.0004327	.0012213	.0031078
50	.0000001	.0000008	.0000040	.0000174	.0000660	.0002205	.0006570	.0017610
51		.0000003	.0000017	.0000077	.0000309	.0001091	.0003434	.0009700
52		.0000001	.0000007	.0000033	.0000140	.0000525	.0001745	.0005194
53			.0000003	.0000014	.0000062	.0000245	.0000861	.0002704
54			.0000001	.0000006	.0000027	.0000111	.0000413	.0001368
55				.0000002	.0000011	.0000049	.0000193	.0000673
56				.0000001	.0000004	.0000021	.0000088	.0000328
57					.0000002	.0000009	.0000039	.0000150
58					.0000001	.0000004	.0000017	.0000068
59						.0000001	.0000007	.0000030
60						.0000001	.0000003	.0000013
61							.0000001	.0000005
62								.0000002
63								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999966	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999886	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999956	.9999987	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999869	.9999958	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
17	.9999640	.9999879	.9999961	.9999988	.9999996	.9999999	1.0000000	1.0000000
18	.9999075	.9999673	.9999890	.9999964	.9999989	.9999997	.9999999	1.0000000
19	.9997766	.9999172	.9999707	.9999901	.9999968	.9999990	.9999997	.9999999
20	.9994918	.9998021	.9999264	.9999739	.9999911	.9999971	.9999991	.9999997
21	.9989081	.9995533	.9998258	.9999352	.9999770	.9999932	.9999975	.9999992
22	.9977776	.9993457	.9996097	.9998478	.9999433	.9999799	.9999938	.9999978
23	.9957053	.9990647	.9991699	.9996608	.9998678	.9999508	.9999885	.9999941
24	.9921009	.9982663	.9983213	.9992814	.9997068	.9998859	.9999376	.9999850
25	.9861438	.9931334	.9967651	.9985490	.9993808	.9997480	.9999088	.9999637
26	.9767712	.9879378	.9940483	.9972069	.9987522	.9994689	.9997845	.9999164
27	.9627185	.9797832	.9895265	.9948568	.9975968	.9989397	.9995467	.9998168
28	.9425789	.9673332	.9823412	.9909304	.9955694	.9979398	.9990876	.9996149
29	.9150151	.9494293	.9714261	.9846590	.9921682	.9961956	.9983404	.9992847
30	.8788971	.9247147	.9555362	.9750717	.9867071	.9933570	.9967443	.9985089
31	.8335488	.8920069	.9334471	.9610280	.9783053	.9885133	.9941814	.9977836
32	.7789359	.8504876	.9039031	.9412965	.9659068	.9811688	.9901086	.9959484
33	.7157897	.7998860	.8659993	.9146795	.9483404	.9702490	.9838978	.9914978
34	.6456278	.7406229	.8192685	.8801759	.9244237	.9546500	.9741068	.9829881
35	.5706497	.6738694	.7638581	.8371593	.8931061	.9332199	.9609911	.9675885
36	.4935299	.6014973	.7006187	.7855392	.8536347	.9048780	.9411387	.9383840
37	.4171243	.5259195	.6310987	.7258734	.8057161	.8687716	.9155637	.8982578

$$F(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 142

r	.25	.26	.27	.28	.29	.30	.31	.32
38	.3441601	.4008448	.4574387	.5139990	.5704438	.6266458	.6825497	.7380784
39	.2769566	.3259866	.3751509	.4243679	.4735509	.5226119	.5714608	.6199121
40	.2172800	.2567699	.2967699	.3373983	.3786716	.4205999	.4630918	.5060618
41	.1659461	.1944830	.2237804	.2537182	.2842741	.3154341	.3471810	.3794987
42	.1234263	.1894303	.2721095	.3079452	.3479669	.3918620	.4367751	.4826328
43	.0893429	.1432831	.2148334	.3008398	.3989089	.5084109	.6044783	.6987594
44	.0629317	.1054435	.1644514	.2401310	.3301771	.4359047	.5330158	.6387967
45	.0431058	.0755769	.1150832	.1870196	.2670117	.3599061	.4607759	.5629538
46	.0287210	.0527240	.0896537	.1420389	.2100850	.2947200	.3900952	.4913761
47	.0186097	.0357925	.0636279	.1051525	.1664316	.2357539	.3231333	.4203479
48	.0117257	.0236415	.0439663	.0758527	.1320578	.1841286	.2614844	.3580754
49	.0071841	.0151919	.0295796	.0533013	.1049200	.1403392	.2070447	.2984888
50	.0048799	.0094968	.0193615	.0334772	.0638483	.1043374	.1599820	.2310841
51	.0024793	.0057749	.0123361	.0243079	.0444175	.0756389	.1205990	.1808387
52	.0013966	.0034159	.0076407	.0167707	.0301021	.0534517	.0887050	.1381858
53	.0007650	.0019654	.0046140	.0099607	.0190697	.0368114	.0636289	.1030587
54	.0004075	.0011001	.0027093	.0061239	.0127785	.0247018	.0444979	.0749880
55	.0002111	.0005989	.0015477	.0036648	.0079947	.0161471	.0303319	.0538177
56	.0001064	.0003172	.0008603	.0021346	.0048784	.0103815	.0201488	.0368854
57	.0000581	.0001634	.0004653	.0012101	.0028919	.0063761	.0130411	.0248411
58	.0000248	.0000813	.0002449	.0006677	.0016700	.0038508	.0082332	.0163321
59	.0000115	.0000400	.0001254	.0003586	.0009398	.0022647	.0050510	.0104639
60	.0000058	.0000190	.0000625	.0001874	.0005141	.0012969	.0030219	.0065328
61	.0000023	.0000087	.0000303	.0000953	.0002740	.0007331	.0017600	.0039727
62	.0000010	.0000039	.0000143	.0000472	.0001431	.0003926	.0009992	.0023536
63	.0000004	.0000017	.0000066	.0000227	.0000718	.0002075	.0005521	.0013568
64	.0000002	.0000007	.0000029	.0000107	.0000353	.0001060	.0002971	.0007634
65	.0000001	.0000003	.0000013	.0000049	.0000169	.0000535	.0001557	.0004179
66		.0000001	.0000005	.0000022	.0000079	.0000261	.0000794	.0002227
67			.0000002	.0000009	.0000036	.0000124	.0000394	.0001156
68			.0000001	.0000004	.0000016	.0000057	.0000191	.0000584
69				.0000003	.0000007	.0000026	.0000090	.0000288
70				.0000001	.0000003	.0000011	.0000041	.0000138
71					.0000001	.0000005	.0000018	.0000064
72						.0000002	.0000008	.0000029
73						.0000001	.0000003	.0000013
74							.0000001	.0000006
75							.0000001	.0000002
76								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999981	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999949	.9999984	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999871	.9999957	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000
26	.9999693	.9999891	.9999963	.9999988	.9999996	.9999999	1.0000000	1.0000000
27	.9999293	.9999740	.9999909	.9999969	.9999990	.9999997	1.0000000	1.0000000
28	.9998450	.9999405	.9999782	.9999924	.9999975	.9999993	.9999998	.9999999
29	.9996744	.9998696	.9999503	.9999819	.9999937	.9999979	.9999995	.9999998
30	.9993441	.9997361	.9998910	.9999586	.9999850	.9999948	.9999989	.9999995
31	.9987314	.9994477	.9997708	.9999093	.9999658	.9999877	.9999959	.9999986
32	.9975410	.9988294	.9995370	.9998092	.9999250	.9999719	.9999900	.9999966
33	.9957780	.9980032	.9991003	.9996137	.9998419	.9999384	.9999771	.9999919
34	.9927104	.9968128	.9983165	.9992473	.9996793	.9998698	.9999494	.9999814
35	.9878899	.9949663	.9969634	.9985865	.9993731	.9997351	.9998934	.9999591
36	.9805498	.9919111	.9947153	.9974395	.9988182	.9994804	.9997814	.9999132
37	.9698044	.9873184	.9911174	.9955319	.9978495	.9990164	.9995715	.9998288
38	.9546491	.9797836	.9855671	.9924317	.9962199	.9982017	.9991888	.9996484
39	.9340060	.9680538	.9773090	.9876207	.9935751	.9968219	.9983583	.9993203
40	.9069037	.9419048	.9654514	.9804242	.9894331	.9945668	.9973593	.9987599
41	.8735294	.9174319	.9490133	.9699889	.9831691	.9910076	.9954238	.9977883
42	.8304092	.8806676	.9269859	.9553850	.9740168	.9855807	.9923772	.9961419
43	.7805206	.8472129	.8984573	.9356326	.9610999	.9775881	.9876930	.9935645
44	.7283764	.8006639	.8627550	.9097926	.9434363	.9661813	.9807883	.9895369
45	.6800487	.7467994	.8194406	.8770889	.9201072	.9504590	.9707095	.9834959
46	.6421211	.6961706	.7667821	.8370269	.8902689	.9294735	.9567590	.9747858
47	.5915707	.6504844	.7111432	.7895076	.8533159	.9023513	.9379531	.9623954
48	.4505947	.5513357	.6477829	.7349110	.8089873	.8683974	.9133935	.9456058
49	.3814062	.4806932	.5808524	.6741396	.7574612	.8272100	.8833166	.9234830
50	.3160323	.4109796	.5105100	.6085416	.6994088	.7787830	.8442008	.8951814
51	.2561421	.3441813	.4406533	.5399301	.6359915	.7235761	.7986748	.8599903
52	.2039396	.2821061	.3737983	.4703895	.5688084	.6625378	.7465979	.8177411
53	.1570637	.2261444	.3088582	.4017468	.4997570	.5970694	.6881084	.7684503

$$P(n,p,x) = \sum_{x=0}^{n} \binom{n}{x} p^x q^{n-x}$$

x	.33	.34	.35	.36	.37	.38	.39	.40
54	.1107031	.1771899	.2503933	.3362756	.4308917	.5289311	.6246075	.7126495
55	.0875613	.1356253	.1905078	.2555784	.3643329	.4601009	.5576945	.6513375
56	.0630803	.1013659	.1538065	.2202502	.3015948	.3926000	.4892458	.5859380
57	.0443410	.0739173	.1164121	.1737128	.2444488	.3383301	.4312580	.5318028
58	.0302470	.0506363	.0860343	.1336902	.1938000	.2880988	.3836753	.4850714
59	.0200141	.0336475	.0620588	.0992999	.1508121	.2455146	.3443268	.4450064
60	.0131506	.0247470	.0436802	.0725589	.1137656	.1889312	.3082940	.4120060
61	.0083379	.0163170	.0299005	.0517404	.0841558	.1394354	.1888824	.3820596
62	.0051514	.0105145	.0200815	.0360031	.0607781	.0960946	.1463059	.2098427
63	.0031010	.0065953	.0131107	.0244381	.0428413	.0708386	.1107930	.1643655
64	.0018186	.0040315	.0083444	.0161774	.0294645	.0505599	.0819613	.1258626
65	.0010389	.0024018	.0051764	.0104416	.0197669	.0352169	.0592076	.0941796
66	.0005781	.0013933	.0031293	.0065700	.0129384	.0239329	.0417507	.0686931
67	.0003133	.0007876	.0018434	.0040293	.0082495	.0156648	.0287095	.0491198
68	.0001653	.0004337	.0010579	.0024081	.0051898	.0100545	.0192863	.0341118
69	.0000850	.0002326	.0005915	.0014034	.0031090	.0064684	.0126078	.0232494
70	.0000435	.0001215	.0003321	.0007956	.0018362	.0039698	.0080613	.0154190
71	.0000207	.0000618	.0001708	.0004397	.0010566	.0021766	.0050170	.0099632
72	.0000098	.0000306	.0000883	.0002367	.0005933	.0013864	.0030433	.0062794
73	.0000045	.0000147	.0000444	.0001241	.0003234	.0007879	.0017289	.0038577
74	.0000020	.0000069	.0000217	.0000613	.0001720	.0004368	.0010260	.0023096
75	.0000009	.0000032	.0000104	.0000295	.0000891	.0002358	.0005818	.0013478
76	.0000004	.0000014	.0000048	.0000158	.0000449	.0001235	.0003175	.0007656
77	.0000001	.0000006	.0000028	.0000078	.0000220	.0000631	.0001689	.0004277
78	.0000001	.0000003	.0000010	.0000033	.0000105	.0000314	.0000875	.0002283
79		.0000001	.0000004	.0000015	.0000049	.0000150	.0000441	.0001198
80			.0000002	.0000006	.0000022	.0000070	.0000217	.0000618
81			.0000001	.0000003	.0000010	.0000033	.0000103	.0000304
82				.0000001	.0000004	.0000015	.0000048	.0000147
83					.0000002	.0000006	.0000028	.0000069
84					.0000001	.0000003	.0000010	.0000038
85						.0000001	.0000004	.0000014
86							.0000002	.0000006
87							.0000001	.0000003
88								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999973	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999935	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
35	.9999851	.9999948	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000
36	.9999670	.9999881	.9999959	.9999987	.9999996	.9999999	1.0000000	1.0000000
37	.9999298	.9999736	.9999905	.9999968	.9999990	.9999997	.9999999	1.0000000
38	.9998556	.9999435	.9999790	.9999926	.9999975	.9999992	.9999999	.9999999
39	.9997131	.9998834	.9999549	.9999834	.9999948	.9999981	.9999994	.9999998
40	.9994491	.9997672	.9999064	.9999642	.9999870	.9999955	.9999985	.9999995
41	.9989767	.9995506	.9998122	.9999254	.9999718	.9999899	.9999965	.9999989
42	.9981600	.9991604	.9996354	.9998494	.9999409	.9999779	.9999938	.9999974
43	.9967953	.9984808	.9993147	.9997060	.9998800	.9999535	.9999839	.9999940
44	.9945897	.9971365	.9987521	.9994438	.9997643	.9999081	.9999637	.9999868
45	.9911411	.9954720	.9977971	.9988804	.9995518	.9998183	.9999254	.9999719
46	.9859222	.9925317	.9962882	.9981874	.9991715	.9996401	.9998518	.9999418
47	.9782746	.9880418	.9937324	.9968735	.9985165	.9993308	.9997118	.9998833
48	.9674195	.9814009	.9894066	.9947649	.9974218	.9987287	.9994488	.9997731
49	.9524899	.9718833	.9841447	.9914860	.9956491	.9978855	.9989893	.9992971
50	.9325873	.9586617	.9758351	.9865436	.9928668	.9964029	.9980756	.9992140
51	.9068623	.9408536	.9641754	.9793008	.9886386	.9940538	.9970484	.9986028
52	.8746141	.9175911	.9483083	.9690833	.9823838	.9904441	.9950696	.9975828
53	.8353971	.8881119	.9273609	.9550068	.9734352	.9850689	.9912079	.9959345
54	.7891192	.8518622	.9005266	.9362255	.9610032	.9778780	.9873975	.9933918
55	.7361161	.8085988	.8671635	.9119042	.9448388	.9663500	.9806591	.9894885
56	.6771838	.7584728	.8268914	.8813388	.9232986	.9514546	.9710902	.9836198
57	.6135605	.7028811	.7796939	.8440066	.8943968	.9317417	.9579869	.9758968

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 142

x	.41	.42	.43	.44	.45	.46	.47	.48
58	.5466834	.6404699	.7859740	.7997684	.8599608	.9044058	.9403088	.9637088
59	.4789183	.5750855	.6665830	.7388816	.8186699	.8747763	.9173988	.9468867
60	.4117058	.5076764	.6027947	.6918857	.7705715	.8364159	.8864811	.9274804
61	.3470933	.4401507	.5368873	.6299883	.7161389	.7911882	.8530078	.9011077
62	.2867362	.3744191	.4687218	.5644573	.6556885	.7394486	.8107194	.8664575
63	.2319397	.3128336	.4021906	.4979868	.5998870	.6818418	.7617849	.8259028
64	.1835854	.2550516	.3384568	.4302905	.5387436	.6195888	.7065570	.7808893
65	.1421078	.2039390	.2791083	.3653054	.4806083	.5540016	.6461463	.7309409
66	.1075197	.1595839	.2253823	.3040318	.4270900	.4870900	.5819014	.6780891
67	.0794780	.1220008	.1780971	.2478643	.3787366	.4204536	.5184158	.6093564
68	.0573737	.0911790	.1376348	.1978647	.3371253	.3561310	.4605384	.5436708
69	.0404319	.0665681	.1039673	.1544831	.2986146	.2956978	.3931173	.4767963
70	.0278056	.0474444	.0767290	.1178676	.2633695	.2404861	.3399041	.4103988
71	.0186554	.0330072	.0553002	.0879145	.2320960	.1914388	.2933691	.3466628
72	.0121872	.0224058	.0389069	.0640485	.2043542	.1490698	.2515894	.2887065
73	.0077885	.0148349	.0267118	.0455570	.1797358	.1143780	.2169044	.2389040
74	.0048441	.0095761	.0178901	.0318051	.1580091	.0864054	.1879101	.1948396
75	.0029362	.0060887	.0116847	.0214182	.1371967	.0613135	.1596967	.1434684
76	.0017341	.0036903	.0074404	.0141470	.1154667	.0434788	.1305180	.1088447
77	.0009977	.0022106	.0046178	.0091105	.0970060	.0300844	.1050811	.0806691
78	.0005591	.0013078	.0027926	.0057186	.0810786	.0203049	.0853213	.0583763
79	.0003050	.0007300	.0016458	.0034976	.0670870	.0133686	.0680887	.0413881
80	.0001620	.0004031	.0009439	.0020840	.0543456	.0085717	.0540191	.0288044
81	.0000830	.0002167	.0005273	.0012093	.0436177	.0053578	.0410637	.0190886
82	.0000422	.0001134	.0002868	.0006832	.0345357	.0032682	.0305585	.0124963
83	.0000206	.0000577	.0001518	.0003757	.0269777	.0019343	.0220350	.0077736
84	.0000098	.0000286	.0000782	.0002011	.0204876	.0011165	.0158174	.0049557
85	.0000046	.0000138	.0000392	.0001047	.0150618	.0006278	.0110498	.0029990
86	.0000020	.0000065	.0000191	.0000510	.0106308	.0003498	.0075001	.0017665
87	.0000009	.0000029	.0000090	.0000241	.0072710	.0001883	.0049418	.0010125
88	.0000004	.0000013	.0000043	.0000105	.0047353	.0000948	.0030372	.0005645
89	.0000002	.0000006	.0000019	.0000058	.0029171	.0000474	.0018258	.0003060
90	.0000001	.0000003	.0000008	.0000026	.0017080	.0000231	.0010684	.0001613
91		.0000001	.0000003	.0000012	.0000037	.0000110	.0006310	.0000826
92			.0000001	.0000005	.0000016	.0000051	.0003648	.0000411
93			.0000001	.0000002	.0000007	.0000023	.0000148	.0000198
94				.0000001	.0000003	.0000010	.0000069	.0000093
95					.0000001	.0000004	.0000031	.0000043
96						.0000001	.0000014	.0000019
97							.0000006	.0000008
98							.0000002	.0000003
99							.0000001	.0000001
100								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	.9999999	1.0000000
40	.9999999	1.0000000
41	.9999997	.9999999
42	.9999993	.9999997
43	.9999980	.9999994
44	.9999955	.9999985
45	.9999899	.9999966
46	.9999784	.9999924
47	.9999550	.9999838
48	.9999090	.9999684
49	.9998217	.9999396
50	.9996606	.9998809
51	.9993780	.9997831

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 142

k	.49	.50
53	.9988741	.9995036
54	.9980355	.9990991
55	.9966674	.9984141
56	.9945009	.9972850
57	.9911704	.9954784
58	.9861992	.9926717
59	.9789929	.9884371
60	.9688461	.9822313
61	.9549663	.9733958
62	.9365189	.9611734
63	.9126933	.9447433
64	.8827866	.9232781
65	.8462997	.8960208
66	.8030271	.8623750
67	.7531364	.8220001
68	.6972131	.7748960
69	.6362654	.7214645
70	.5716798	.6625327
71	.5051304	.5993305
72	.4384505	.5334196
73	.3734832	.4665804
74	.3119306	.4006695
75	.2552222	.3374673
76	.2044190	.2785355
77	.1601637	.2251040
78	.1236793	.1779999
79	.0940097	.1376250
80	.0707038	.1039792
81	.0525561	.0767219
82	.0383005	.0552567
83	.0275960	.0388266
84	.019[illegible]453	.0266042
85	.013[illegible]5	.0177687
86	.009[illegible]5	.0115629
87	.0021975	.0073283
88	.0012717	.0045216
89	.0007158	.0027150
90	.0003917	.0015859
91	.0002083	.0009009
92	.0001076	.0004974
93	.0000540	.0002669
94	.0000263	.0001391
95	.0000124	.0000704
96	.0000057	.0000346
97	.0000025	.0000165
98	.0000011	.0000076
99	.0000005	.0000034
100	.0000002	.0000015
101	.0000001	.0000006
102		.0000003
		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 143

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7624074	.9443675	.9871661	.9970840	.9993477	.9998564	.9999689	.9999934
2	.4192182	.7820113	.9304060	.9770796	.9944379	.9985458	.9996339	.9999109
3	.1730926	.5467605	.8057677	.9283101	.9760910	.9926034	.9978438	.9994017
4	.0562451	.3211118	.6335925	.8276529	.9307066	.9747777	.9915109	.9973208
5	.0149353	.1599342	.4284750	.6808612	.8471037	.9349544	.9748876	.9909875
6	.0033352	.0684906	.2598543	.5100274	.724.794	.8642893	.9399182	.9756775
7	.0006403	.0255680	.1399077	.3478784	.5767026	.7665469	.8794837	.9430575
8	.0001075	.0084241	.0673038	.2149973	.4241725	.6309477	.7904565	.8839465
9	.0000160	.0024761	.0291306	.1208732	.2876981	.4903188	.6765400	.8159187
10	.0000021	.0006554	.0114214	.0620457	.1799552	.3586741	.5479245	.7254340
11	.0000003	.0001574	.0040821	.0292003	.1039680	.2405099	.4182027	.5963543
12		.0000346	.0013376	.0126532	.0556125	.1516308	.3001470	.4752587
13		.0000070	.0004039	.0050691	.0276173	.0892263	.2024019	.3575151
14		.0000013	.0001129	.0018848	.0127697	.0490872	.1288645	.2543418
15		.0000002	.0000293	.0006527	.0055133	.0252966	.0764479	.1710543
16			.0000071	.0002112	.0023288	.0122370	.0429065	.1087346
17			.0000016	.0000641	.0009459	.0055683	.0227095	.0653957
18			.0000033	.0000183	.0003821	.0023884	.0113527	.0372420
19			.0000001	.0000049	.0001518	.0009676	.0053690	.0201050
20				.0000012	.0000324	.0003709	.0024059	.0103013
21				.0000003	.0000098	.0001348	.0010211	.0050157
22				.0000001	.0000028	.0000465	.0004135	.0022337
23					.0000008	.0000153	.0001591	.0010856
24					.0000002	.0000048	.0000583	.0004918
25						.0000014	.0000204	.0001736
26						.0000004	.0000068	.0000667
27						.0000001	.0000022	.0000245
28							.0000007	.0000086
29							.0000002	.0000029
30							.0000001	.0000009
31								.0000003
32								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999986	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999790	.9999952	.9999989	.9999998	.9999999	1.0000000	1.0000000	1.0000000
3	.9998409	.9999593	.9999899	.9999976	.9999994	.9999999	1.0000000	1.0000000
4	.9991994	.9997719	.9999378	.9999837	.9999959	.9999990	.9999998	.9999999
5	.9969787	.9990434	.9997121	.9999172	.9999772	.9999939	.9999985	.9999996
6	.9908731	.9967822	.9990365	.9996653	.9998945	.9999711	.9999920	.9999979
7	.9768845	.9911417	.9967320	.9988750	.9996326	.9998857	.9999660	.9999903
8	.9501012	.9785352	.9913993	.9967661	.9989521	.9996135	.9998761	.9999681
9	.9049010	.9549118	.9801947	.9918771	.9968694	.9990603	.9996064	.9998906
10	.8378478	.9155194	.9594221	.9818770	.9924255	.9970211	.9988925	.9996093
11	.7489029	.8569188	.9250190	.9636041	.9835275	.9930089	.9972043	.9989422
12	.6427177	.7781646	.8736075	.9334764	.9674515	.9851119	.9936021	.9974060
13	.5271104	.6919102	.8037111	.8882849	.9410278	.9709707	.9866097	.9941074
14	.4110944	.5741381	.7166577	.8281060	.9012403	.9477731	.9741752	.9880094
15	.3060835	.4629447	.6147489	.7475543	.8460343	.9127070	.9537995	.9770823
16	.2160862	.3566932	.5105536	.6553408	.7750915	.8636144	.9288762	.9591028
17	.1448796	.2622474	.4088516	.5547443	.6902863	.7996798	.8792199	.9319073
18	.0922685	.1838513	.3086000	.4522649	.5956187	.7219263	.8216660	.8930981
19	.0559455	.1228765	.2247205	.3544437	.4965986	.6333835	.7505700	.8413454
20	.0321464	.0783043	.1565158	.2666854	.3992557	.5406106	.6680282	.7764933
21	.0176143	.0475990	.1042510	.1924898	.3090937	.4 .50	.5777170	.6999126
22	.0091962	.0276162	.0664156	.1332297	.2301460	.3341	.4843718	.6144722
23	.0045799	.0153035	.0404835	.0884173	.1647445	.26d8942	.3930225	.5242835
24	.0021771	.0081063	.0236220	.0562692	.1133315	.1962911	.3082148	.4337890
25	.0009802	.0041078	.0132019	.0343501	.0765141	.1406234	.2333845	.3476589
26	.0004300	.0019911	.0070717	.0201826	.0475900	.0962926	.1705270	.2695685
27	.0001790	.0009267	.0036389	.0111375	.0290699	.0633224	.1201841	.2020618
28	.0000714	.0004132	.0017911	.0061144	.0170728	.0401837	.0816667	.1463420
29	.0000273	.0001768	.0008482	.0031751	.0096460	.0245314	.0535414	.1023727
30	.0000100	.0000727	.0003861	.0015955	.0052453	.0144270	.0338455	.0691610
31	.0000035	.0000287	.0001690	.0007619	.0027465	.0081764	.0206376	.0451821
32	.0000012	.0000109	.0000712	.0003525	.0013854	.0044673	.0121415	.0284314
33	.0000004	.0000040	.0000289	.0001571	.0006736	.0023540	.0068939	.0173043
34	.0000001	.0000014	.0000113	.0000675	.0003158	.0011968	.0037790	.0101753
35		.0000005	.0000043	.0000280	.0001429	.0005673	.0020006	.0057821
36		.0000002	.0000015	.0000112	.0000624	.0002783	.0010232	.0031760
37			.0000005	.0000043	.0000263	.0001274	.0005058	.0016868
38			.0000002	.0000016	.0000107	.0000564	.0002417	.0008665
39			.0000001	.0000006	.0000042	.0000241	.0001117	.0004307
40				.0000002	.0000016	.0000100	.0000500	.0002072
41				.0000001	.0000006	.0000040	.0000216	.0000965
42					.0000002	.0000015	.0000091	.0000435
43					.0000001	.0000006	.0000037	.0000190
44						.0000002	.0000014	.0000080
45						.0000001	.0000006	.0000033
46							.0000002	.0000013
47							.0000001	.0000005
48								.0000002
49								.0000001

r	.18	.19	.20	.21	.22	.23	.24
1	1.0 00 1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0 000 1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000 1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000 1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999 1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999995 .9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999973 .9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999866 .9999968	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 143

x	.17	.18	.19	.20	.21	.22	.23	.24
9	.9999594	.9999878	.9999965	.9999990	.9999997	.9999999	1.0000000	1.0000000
10	.9998688	.9999579	.9999871	.9999962	.9999989	.9999997	.9999999	1.0000000
11	.9996201	.9998701	.9999576	.9999868	.9999960	.9999989	.9999997	.9999999
12	.9990042	.9996369	.9998739	.9999582	.9999868	.9999960	.9999988	.9999997
13	.9976166	.9990739	.9996780	.9998797	.9999596	.9999871	.9999960	.9999988
14	.9947526	.9978284	.9991477	.9996820	.9998870	.9999617	.9999876	.9999961
15	.9893056	.9952898	.9980362	.9992230	.9997076	.9998951	.9999641	.9999883
16	.9797111	.9904974	.9957940	.9982361	.9992975	.9997350	.9999033	.9999668
17	.9639900	.9820014	.9915864	.9962624	.9984255	.9993697	.9997599	.9999128
18	.9399347	.9682802	.9842130	.9925761	.9966938	.9986027	.9994305	.9997852
19	.9054459	.9470735	.9721063	.9861251	.9934714	.9970802	.9987667	.9995031
20	.8589783	.9164477	.9534930	.9755150	.9878361	.9942779	.9974464	.9989171
21	.7999565	.8747666	.9262514	.9590693	.9785435	.9893634	.9950012	.9977698
22	.7291578	.8211767	.8889205	.9349680	.9640881	.9812447	.9907234	.9956477
23	.6487435	.7559420	.8403610	.9016027	.9427719	.9695461	.9836375	.9919315
24	.5620849	.6806073	.7804371	.8576937	.9129620	.9497036	.9715024	.9857577
25	.4733584	.5979228	.7101559	.8028074	.8733413	.9231308	.9538721	.9760095
26	.3868457	.5115277	.6316840	.7374928	.8232036	.8874551	.9322269	.9613565
27	.3064265	.4254569	.5481445	.6633058	.7627272	.8417874	.9001724	.9403558
28	.2350505	.3435843	.4632300	.5831032	.6930587	.7859714	.8586819	.9116180
29	.1744852	.2691209	.3807115	.4999534	.6163351	.7207504	.8073384	.8740212
30	.1252933	.2043171	.3039543	.4175204	.5354589	.6478021	.7465217	.8259400
31	.0870066	.1502545	.2355361	.3392091	.4537637	.5696165	.6774908	.7704424
32	.0584217	.1069959	.1770360	.2678447	.3746038	.4892321	.6023290	.7054079
33	.0377302	.0737607	.1290081	.2054008	.3009550	.4098783	.5237508	.6335277
34	.0238128	.0492211	.0911141	.1526913	.2351033	.3345	.4448014	.5571764
35	.0144578	.0317935	.0623564	.1104203	.1794699	.2650955	.3685058	.4791705
36	.0084907	.0198795	.0413406	.0773536	.1315860	.2035514	.2975325	.4024548
37	.0048241	.0120337	.0265654	.0525536	.0941976	.1544914	.2339371	.3297769
38	.0026523	.0070532	.0165372	.0346238	.0654560	.1128435	.1788951	.2634053
39	.0014115	.0040035	.0099756	.0221202	.0441439	.0800760	.1332190	.2049394
40	.0007273	.0022011	.0058317	.0137043	.0288913	.0551934	.0964074	.1552316
41	.0003629	.0011725	.0033045	.0082339	.0183497	.0369462	.0671181	.1144189
42	.0001754	.0005952	.0018152	.0047983	.0113100	.0240168	.0454647	.0820411
43	.0000822	.0003028	.0009668	.0027124	.0067654	.0151694	.0300821	.0572100
44	.0000373	.0001469	.0004991	.0014875	.0039279	.0093931	.0194834	.0387919
45	.0000164	.0000691	.0002502	.0007915	.0022136	.0055320	.0124710	.0255751
46	.0000070	.0000315	.0001216	.0004098	.0012110	.0031982	.0076000	.0163896
47	.0000029	.0000140	.0000574	.0002049	.0006433	.0017950	.0045003	.0102112
48	.0000012	.0000060	.0000263	.0000997	.0003318	.0009795	.0025894	.0061845
49	.0000005	.0000025	.0000117	.0000471	.0001662	.0005195	.0014479	.0036613
50	.0000002	.0000010	.0000050	.0000216	.0000809	.0002672	.0007868	.0020843
51	.0000001	.0000004	.0000021	.0000096	.0000382	.0001336	.0004155	.0011599
52		.0000002	.0000009	.0000042	.0000176	.0000650	.0002133	.0006276
53		.0000001	.0000003	.0000018	.0000078	.0000307	.0001065	.0003301
54			.0000001	.0000007	.0000034	.0000141	.0000516	.0001689
55				.0000003	.0000014	.0000063	.0000244	.0000840
56				.0000001	.0000006	.0000027	.0000112	.0000407
57					.0000002	.0000012	.0000050	.0000191
58					.0000001	.0000005	.0000022	.0000068
59						.0000002	.0000009	.0000039
60						.0000001	.0000004	.0000017
61							.0000001	.0000007
62							.0000001	.0000003
63								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999961	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999891	.9999966	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000
17	.9999697	.9999908	.9999968	.9999990	.9999997	.9999999	1.0000000	1.0000000
18	.9999216	.9999727	.9999909	.9999971	.9999991	.9999997	.9999999	1.0000000
19	.9998093	.9999302	.9999756	.9999919	.9999974	.9999992	.9999998	.9999999
20	.9995630	.9998320	.9999384	.9999784	.9999928	.9999977	.9999993	.9999998
21	.9990540	.9996180	.9998530	.9999460	.9999811	.9999937	.9999980	.9999994
22	.9980602	.9991777	.9996680	.9998722	.9999531	.9999836	.9999945	.9999982
23	.9962233	.9983197	.9992886	.9997131	.9998897	.9999595	.9999858	.9999953
24	.9930019	.9967339	.9985504	.9993876	.9997535	.9999354	.9999654	.9999879
25	.9876330	.9939480	.9971851	.9987546	.9994753	.9997893	.9999194	.9999705
26	.9791144	.9892807	.9947818	.9975829	.9989345	.9991526	.9998210	.9999317
27	.9662272	.9818590	.9907474	.9955148	.9979319	.9979922	.9996204	.9998487
28	.9476123	.9705472	.9842812	.9920298	.9961573	.9962371	.9992399	.9996795
29	.9219061	.9540817	.9743732	.9864150	.9931545	.9937188	.9985030	.9993496
30	.8879266	.9311405	.9598411	.9777561	.9882908	.9893386	.9972061	.9987339
31	.8448859	.9005109	.9394166	.9649603	.9807419	.9829364	.9949972	.9976330
32	.7925891	.8612096	.9118800	.9466213	.9695023	.9733717	.9913766	.9954445
33	.7315762	.8130 6	.8762333	.9221322	.9534346	.9595247	.9856833	.9916340
34	.6631678	.7566 3	.8310850	.8899369	.9311595	.9397297	.9770795	.9847104
35	.5893940	.6912 53	.7788189	.8492039	.9021087	.9126476	.9645738	.9732143
36	.5128029	.6203140	.7176434	.7999928	.8650914	.8771779	.9471763	.9552284
37	.4362257	.5455697	.6498691	.7425700	.8196125	.8336026	.9234920	.9297190

$$P(\geq r, n, p) = \sum_{x=r}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 143

x	.25	.26	.27	.28	.29	.30	.31	.32
38	.3624013	.4696242	.5773240	.6780118	.7659048	.8377421	.8928503	.9326183
39	.2937575	.3951912	.5024775	.6079687	.7047122	.7876984	.8544490	.9049057
40	.2321542	.3247816	.4279465	.5346330	.6374203	.7299556	.8079991	.8690024
41	.1787646	.2604614	.3562742	.4684825	.5659582	.6656136	.7537403	.8268524
42	.1340563	.2036804	.2896787	.3800400	.4926304	.5963395	.6925002	.7760765
43	.0976638	.1552450	.2298599	.3196221	.4198027	.5242379	.6256813	.7180469
44	.0695270	.1152663	.1778925	.2571267	.3501073	.4516572	.5551690	.6539048
45	.0480598	.0833422	.1342088	.2018908	.2853246	.3809617	.4831702	.5853035
46	.0323172	.0586658	.0986635	.1546335	.2271191	.3143060	.4120062	.5148[illegible]
47	.0211376	.0401947	.0706548	.1154807	.1764657	.2534464	.3438915	.4430770
48	.0134467	.0268008	.0492749	.0840566	.1337662	.1996162	.2807336	.3739286
49	.0083195	.0173888	.0334596	.0596157	.0988049	.1534760	.2239830	.3088361
50	.0050059	.0109775	.0221187	.0411880	.0712627	.1151379	.1745508	.2494534
51	.0029295	.0067426	.0142329	.0277153	.0500519	.0842484	.1327984	.1969173
52	.0016673	.0040292	.0089143	.0181611	.0342536	.0601079	.0985921	.1518343
53	.0009289	.0023426	.0054340	.0115875	.0230371	.0418035	.0714025	.1142998
54	.0004969	.0013351	.0032238	.0071902	.0150306	.0283343	.0504885	.0839711
55	.0002602	.0007392	.0018613	.0043533	.0093803	.0187134	.0347233	.0601844
56	.0001326	.0003905	.0010459	.0025631	.0057778	.0120412	.0233055	.0420709
57	.0000657	.0002034	.0005719	.0014690	.0034656	.0075477	.0152445	.0286761
58	.0000317	.0001031	.0003044	.0008196	.0020241	.0046084	.0097166	.0190550
59	.0000149	.0000509	.0001577	.0004451	.0011511	.0027405	.0060344	.0123417
60	.0000068	.0000244	.0000795	.0002353	.0006374	.0015878	.0036509	.0077903
61	.0000030	.0000114	.0000390	.0001211	.0003436	.0008953	.0021517	.0047916
62	.0000013	.0000052	.0000186	.0000607	.0001804	.0004917	.0012353	.0028718
63	.0000005	.0000023	.0000087	.0000296	.0000922	.0002630	.0006907	.0016768
64	.0000002	.0000010	.0000039	.0000140	.0000459	.0001370	.0003762	.0009537
65	.0000001	.0000004	.0000017	.0000065	.0000222	.0000695	.0001995	.0005284
66		.0000002	.0000007	.0000029	.0000105	.0000343	.0001030	.0002858
67		.0000001	.0000003	.0000013	.0000048	.0000165	.0000518	.0001499
68			.0000001	.0000005	.0000021	.0000077	.0000254	.0000767
69				.0000002	.0000009	.0000035	.0000121	.0000383
70				.0000001	.0000004	.0000016	.0000056	.0000186
71					.0000002	.0000007	.0000025	.0000088
72					.0000001	.0000003	.0000011	.0000040
73						.0000001	.0000005	.0000018
74							.0000002	.0000008
75							.0000001	.0000003
76								.0000001
77								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999985	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999960	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999897	.9999966	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000
26	.9999751	.9999914	.9999971	.9999991	.9999997	.9999999	1.0000000	1.0000000
27	.9999425	.9999792	.9999928	.9999976	.9999992	.9999998	.9999999	1.0000000
28	.9998728	.9999519	.9999826	.9999940	.9999980	.9999994	.9999998	.9999999
29	.9997307	.9998937	.9999600	.9999857	.9999951	.9999985	.9999995	.9999999
30	.9994531	.9997749	.9999117	.9999670	.9999882	.9999960	.9999987	.9999996
31	.9989336	.9995423	.9998128	.9999271	.9999729	.9999904	.9999968	.9999990
32	.9980000	.9991056	.9996188	.9998452	.9999401	.9999799	.9999928	.9999974
33	.9963928	.9981181	.9992531	.9996841	.9998727	.9999511	.9999821	.9999938
34	.9937288	.9959535	.9985908	.9993792	.9997325	.9998959	.9999604	.9999856
35	.9894836	.9926793	.9974370	.9988244	.9994864	.9997863	.9999153	.9999681
36	.9829720	.9870307	.9955022	.9978524	.9990238	.9995778	.9998357	.9999314
37	.9733504	.9783919	.9923766	.9962122	.9982030	.9991928	.9996538	.9998386
38	.9596456	.9649914	.9875097	.9935442	.9968239	.9983111	.9990359	.9995179
39	.9408164	.9469200	.9801994	.9893578	.9945537	.9967462	.9978609	.9988364
40	.9158477	.9241775	.9696016	.9830173	.9909657	.9942437	.9957731	.9969869
41	.8838729	.8957527	.9547646	.9737456	.9854868	.9903641	.9926709	.9931739
42	.8443088	.8587315	.9346945	.9606429	.9774032	.9837430	.9883854	.9868101
43	.7969838	.8104235	.9084488	.9427138	.9658735	.9736216	.9805198	.9786034
44	.7422140	.7564905	.8752544	.9190950	.9499683	.9585136	.9684445	.9644479
45	.6809469	.6965539	.8346319	.8888623	.9287390	.9364334	.9446169	.9359183
46	.6145372	.6307591	.7865099	.8514492	.9013090	.9074480	.9068208	.8988338
47	.5448523	.5627867	.7313063	.8066145	.8669885	.8712578	.8545877	.8473893
48	.4740168	.4947598	.6699590	.7545658	.8253889	.8281999	.7939718	.7853817
49	.4042384	.4296777	.6038926	.6960109	.7765259	.7728618	.6944366	.6838141
50	.3376057	.3696823	.5349223	.6321553	.7208942	.7071858	.5990659	.5864540
51	.2759059	.3104938	.4653031	.5646238	.6594572	.6405547	.5165816	.5040487
52	.2204897	.2611117	.3986475	.4953565	.5936669	.5757334	.4469058	.4346490

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 145

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
53	.1781994	.2451714	.3312373	.4264822	.5253060	.6219474	.7109193	.7881666
54	.1313614	.1938344	.2708560	.3598452	.4563719	.5548236	.6493728	.7349498
55	.0978377	.1497572	.2166677	.2974294	.3988967	.4862564	.5857906	.6758623
56	.0711188	.1130141	.1694519	.2406168	.3247709	.4182522	.5159408	.6180978
57	.0504387	.0832696	.1295001	.1903985	.2658691	.3527550	.4477733	.5589960
58	.0348921	.0598881	.0966652	.1472834	.2125380	.2914834	.3813525	.4973840
59	.0235581	.0420176	.0704495	.1113233	.1663397	.2358006	.3181914	.4361324
60	.0154815	.0287591	.0501127	.0821818	.1272508	.1866329	.2601064	.3785981
61	.0099861	.0191970	.0347819	.0592329	.0951110	.1444438	.2081155	.3253661
62	.0063030	.0124944	.0235496	.0416685	.0694276	.1092602	.1628873	.2767895
63	.0037777	.0079378	.0155505	.0286015	.0494779	.0807399	.1244430	.2328558
64	.0022418	.0049031	.0100126	.0191512	.0344139	.0582654	.0932857	.1932630
65	.0012962	.0029555	.0062852	.0125065	.0233550	.0410470	.0680816	.1580528
66	.0007302	.0017360	.0038458	.0079638	.0154618	.0282208	.0485589	.0789717
67	.0004007	.0009936	.0022935	.0049440	.0099822	.0189303	.0338078	.0570048
68	.0002142	.0005540	.0013328	.0029918	.0062841	.0123868	.0229691	.0401744
69	.0001115	.0003009	.0007547	.0017644	.0038567	.0079034	.0152248	.0276348
70	.0000565	.0001592	.0004164	.0010141	.0023071	.0049170	.0098420	.0185470
71	.0000279	.0000831	.0002238	.0005678	.0013450	.0029821	.0062043	.0121427
72	.0000134	.0000418	.0001171	.0003098	.0007641	.0017487	.0038130	.0077529
73	.0000063	.0000201	.0000597	.0001646	.0004239	.0010154	.0022842	.0048864
74	.0000029	.0000096	.0000297	.0000852	.0002280	.0005698	.0013335	.0029888
75	.0000013	.0000044	.0000143	.0000429	.0001197	.0003116	.0007585	.0017328
76	.0000005	.0000020	.0000067	.0000211	.0000613	.0001659	.0004204	.0009988
77	.0000002	.0000009	.0000031	.0000101	.0000305	.0000860	.0002369	.0005604
78	.0000001	.0000004	.0000014	.0000047	.0000148	.0000435	.0001193	.0003065
79		.0000002	.0000006	.0000021	.0000070	.0000214	.0000610	.0001632
80		.0000001	.0000003	.0000009	.0000032	.0000102	.0000304	.0000846
81			.0000001	.0000004	.0000014	.0000048	.0000148	.0000427
82				.0000002	.0000006	.0000022	.0000070	.0000230
83				.0000001	.0000003	.0000010	.0000032	.0000100
84					.0000001	.0000004	.0000014	.0000047
85						.0000002	.0000006	.0000021
86						.0000001	.0000003	.0000009
87							.0000001	.0000004
88								.0000002
89								.0000001

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999950	.9999984	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
35	.9999885	.9999961	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
36	.9999744	.9999909	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000
37	.9999450	.9999797	.9999928	.9999976	.9999992	.9999998	.9999999	1.0000000
38	.9998860	.9999561	.9999840	.9999944	.9999982	.9999994	.9999998	1.0000000
39	.9997715	.9999086	.9999652	.9999874	.9999957	.9999986	.9999996	.9999999
40	.9995574	.9998160	.9999272	.9999726	.9999902	.9999967	.9999989	.9999997
41	.9991704	.9996416	.9998527	.9999424	.9999786	.9999925	.9999975	.9999992
42	.9984949	.9993243	.9997114	.9998828	.9999548	.9999834	.9999948	.9999981
43	.9973548	.9987662	.9994526	.9997691	.9999074	.9999647	.9999873	.9999956
44	.9954940	.9978171	.9989940	.9995592	.9998164	.9999274	.9999787	.9999903
45	.9925550	.9962551	.9980077	.9991843	.9996471	.9998550	.9999634	.9999790
46	.9880620	.9937666	.9960928	.9985363	.9993424	.9997193	.9998862	.9999562
47	.9814101	.9899276	.9928056	.9974516	.9988113	.9994731	.9997788	.9999114
48	.9718701	.9841901	.9875403	.9956927	.9979144	.9990408	.9995005	.9998360
49	.9586110	.9758807	.9786137	.9929267	.9964468	.9983038	.9989899	.9996683
50	.9407474	.9642147	.9674083	.9887183	.9941189	.9970849	.9980870	.9993860
51	.9174395	.9483330	.9491691	.9824988	.9905380	.9951344	.9964820	.9988963
52	.8878359	.9273613	.9251312	.9735878	.9851955	.9921046	.9939968	.9980718
53	.8514741	.9004931	.8963683	.9612005	.9774618	.9875302	.9894469	.9967854
54	.8080931	.8670871	.8620654	.9444893	.9663976	.9808895	.9835644	.9945915
55	.7578474	.8267694	.8215090	.9226055	.9517827	.9713778	.9738862	.9913085
56	.7013460	.7795257	.7742079	.8947820	.9321684	.9583065	.9585919	.9864047

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 145

c	.41	.42	.43	.44	.45	.46	.47	.48
57	.6396460	.7257657	.7999888	.8604283	.9069499	.9408095	.9641171	.97929 16
58	.5742033	.6663466	.7490735	.8192898	.8754570	.9180603	.9485856	.96988 97
59	.5067717	.6025471	.6921211	.7712326	.8372508	.8893259	.9281634	.98355 89
60	.4392626	.5359883	.6302237	.7169015	7922158	.8540617	.9080781	.9931114
61	.3735842	.4685115	.5648513	.6571374	.7406303	.8120059	.8696799	.9137378
62	.3114827	.4020264	.4977192	.5932443	.6832019	.7632600	.8305947	.8841896
63	.2544063	.3383515	.4307990	.5266485	.6210581	.7083407	.7847334	.84798 26
64	.2034107	.2790680	.3658623	.4597752	.5556660	.6481911	.7324869	.8050829
65	.1591136	.2254063	.3046282	.3938997	.4888282	.5841429	.6745499	.7555833
66	.1217008	.1781782	.2484845	.3309921	.4223444	.5178320	.6121059	.7000499
67	.0909751	.1377605	.1984296	.2725780	.3580584	.4510745	.5466628	.6394681
68	.0664364	.1041241	.1550332	.2198309	.2976104	.3857194	.4799665	.5751999
69	.0473780	.0769012	.1184440	.1735110	.2423344	.3234960	.4138624	.5088961
70	.0329824	.0554738	.0884414	.1339520	.1931759	.2658832	.3501443	.4423704
71	.0224070	.0390708	.0645146	.1010939	.1506571	.2140005	.2904108	.3774532
72	.0148510	.0268582	.0459560	.0745495	.1148889	.1685598	.2359474	.3158415
73	.0096002	.0180146	.0319557	.0535933	.0856241	.1298499	.1876496	.2589698
74	.0060513	.0117860	.0216834	.0377551	.0623361	.0977788	.1459930	.2079100
75	.0037184	.0075195	.0143530	.0259092	.0443123	.0719357	.1110490	.1633261
76	.0022270	.0046771	.0092655	.0173464	.0307452	.0516823	.0825400	.1254640
77	.0012996	.0028355	.0058315	.0113266	.0208134	.0362456	.0599196	.0941134
78	.0007389	.0016751	.0035774	.0072110	.0137426	.0248035	.0424652	.0690769
79	.0004092	.0009640	.0021585	.0044748	.0088475	.0165561	.0293680	.0494592
80	.0002207	.0005404	.0012485	.0027060	.0055522	.0107755	.0198118	.0345598
81	.0001159	.0002950	.0007065	.0015941	.0033952	.0068362	.0130323	.0235571
82	.0000592	.0001568	.0003902	.0009147	.0020226	.0042263	.0083563	.0156577
83	.0000295	.0000811	.0002098	.0005110	.0011735	.0025451	.0052211	.0101445
84	.0000143	.0000408	.0001098	.0002779	.0006629	.0014927	.0031777	.0064043
85	.0000067	.0000200	.0000559	.0001471	.0003645	.0008523	.0018834	.0039388
86	.0000031	.0000095	.0000277	.0000758	.0001950	.0004737	.0010867	.0023581
87	.0000014	.0000044	.0000134	.0000379	.0001015	.0002561	.0006108	.0013744
88	.0000006	.0000020	.0000063	.0000185	.0000514	.0001347	.0003333	.0007796
89	.0000002	.0000009	.0000028	.0000086	.0000253	.0000689	.0001771	.0004301
90	.0000001	.0000004	.0000013	.0000040	.0000121	.0000342	.0000915	.0002308
91		.0000002	.0000005	.0000018	.0000056	.0000166	.0000459	.0001204
92		.0000001	.0000002	.0000008	.0000025	.0000078	.0000224	.0000610
93			.0000001	.0000003	.0000011	.0000035	.0000106	.0000300
94				.0000001	.0000005	.0000016	.0000049	.0000144
95				.0000001	.0000002	.0000007	.0000022	.0000067
96					.0000001	.0000003	.0000009	.0000030
97						.0000001	.0000004	.0000013
98							.0000002	.0000006
99							.0000001	.0000002
100								.0000001

c	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	1.0000000	1.0000000
40	.9999299	1.0000000
41	.9999998	.9999999
42	.9999994	.9999998
43	.9999986	.9999996
44	.9999967	.9999989
45	.9999936	.9999976
46	.9999840	.9999945
47	.9999664	.9999880
48	.9999315	.9999745
49	.9998645	.9999473
50	.9997395	.9998952

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 143

x	.49	.50
51	.9995139	.9997970
52	.9991185	.9996178
53	.9984464	.9993009
54	.9973378	.9987566
55	.9955625	.9978495
56	.9928023	.9963817
57	.9886353	.9940751
58	.9825340	.9905544
59	.9738180	.9853342
60	.9617674	.9778135
61	.9455581	.9672846
62	.9243678	.9529583
63	.8974409	.9340107
64	.8641784	.9096495
65	.8248307	.8791979
66	.7795938	.8421876
67	.7246155	.7984480
68	.6561298	.7481803
69	.6033267	.6919986
70	.5377396	.6309316
71	.4711237	.5663750
72	.4053172	.5003000
73	.3420914	.4336250
74	.2830093	.3690684
75	.2293125	.3090614
76	.1810488	.2518197
77	.1410467	.2015520
78	.1069358	.1578124
79	.0792046	.1208026
80	.0572826	.0903504
81	.0404307	.0659093
82	.0278412	.0470417
83	.0186941	.0327154
84	.0122353	.0221865
85	.0078027	.0146658
86	.0048466	.0094456
87	.0029311	.0059249
88	.0017254	.0036183
89	.0009882	.0021505
90	.0005505	.0012494
91	.0002952	.0006991
92	.0001570	.0003822
93	.0000801	.0002030
94	.0000399	.0001047
95	.0000192	.0000525
96	.0000090	.0000255
97	.0000041	.0000120
98	.0000018	.0000055
99	.0000008	.0000024
100	.0000003	.0000011
101	.0000001	.0000004
102		.0000002
103		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 144

r \ p	.01	.02	.03	.04	.05	.06	.07	.08
1	.7647834	.9454801	.9875511	.9972000	.9993003	.9998650	.9999711	.9999939
2	.4226501	.7852504	.9321988	.9804047	.9946034	.9986574	.9996175	.9999175
3	.1755539	.5514656	.8095068	.9503661	.9770084	.9929599	.9979691	.9994485
4	.0574135	.3256248	.6300277	.8516792	.9329758	.9758472	.9919548	.9984873
5	.0153484	.1631578	.4343585	.6867339	.8512838	.9373470	.9759954	.9944542
6	.0034512	.0703194	.2649130	.5176280	.7300956	.8685292	.9423619	.9769023
7	.0006672	.0264265	.1435061	.3543963	.5941065	.7667714	.8837141	.9475071
8	.0001128	.0087669	.0694419	.2203186	.4317990	.6307236	.7966884	.8971154
9	.0000169	.0025951	.0302758	.1246382	.2945218	.4987565	.6845141	.8280754
10	.0000023	.0006910	.0119526	.0643908	.1851423	.3697520	.5569276	.7234725
11	.0000003	.0001674	.0043023	.0305141	.1077674	.2474197	.4272038	.6077307
12		.0000370	.0014199	.0133151	.0580304	.1569635	.3084109	.4851064
13		.0000075	.0004319	.0053725	.0290171	.0929705	.2092441	.3669346
14		.0000014	.0001216	.0020121	.0135120	.0514955	.1334541	.2685957
15		.0000002	.0000318	.0007020	.0058751	.0267240	.0800751	.1776988
16			.0000078	.0002289	.0023930	.0130206	.0452544	.1137185
17			.0000018	.0000700	.0009150	.0059685	.0241233	.0686628
18			.0000004	.0000201	.0003293	.0025792	.0121476	.0394943
19			.0000001	.0000054	.0001118	.0010528	.0057878	.0214760
20				.0000014	.0000359	.0004067	.0026133	.0110856
21				.0000003	.0000109	.0001490	.0011199	.0054306
22				.0000001	.0000031	.0000519	.0004562	.0025391
23					.0000009	.0000171	.0001769	.0011295
24					.0000002	.0000054	.0000654	.0004793
25					.0000001	.0000016	.0000231	.0001942
26						.0000005	.0000078	.0000753
27						.0000001	.0000025	.0000279
28							.0000006	.0000099
29							.0000002	.0000034
30							.0000001	.0000011
31								.0000003
32								.0000001

r \ p	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999489	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999807	.9999956	.9999990	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
3	.9998534	.9999689	.9999909	.9999979	.9999995	.9999999	1.0000000	1.0000000
4	.9992578	.9997907	.9999435	.9999853	.9999963	.9999998	.9999999	1.0000000
5	.9971786	.9991162	.9997169	.9999252	.9999896	.9999947	.9999986	.9999997
6	.9914226	.9970100	.9990218	.9996955	.9999096	.9999743	.9999930	.9999988
7	.9788345	.9916169	.9969745	.9989699	.9996673	.9998977	.9999699	.9999915
8	.9525207	.9797859	.9919859	.9970192	.9989536	.9996516	.9998896	.9999666
9	.9089604	.9572741	.9834072	.9924618	.9971272	.9989658	.9996469	.9998858
10	.8438827	.9194766	.9617071	.9830770	.9930032	.9972788	.9989993	.9996121
11	.7569007	.8627804	.9288033	.9657968	.9846842	.9935706	.9974575	.9990490
12	.6528816	.7860400	.8792628	.9370917	.9695414	.9862175	.9944121	.9974918
13	.5375152	.6915356	.8113997	.8937076	.9444628	.9729505	.9876586	.9947883
14	.4222638	.5849153	.7262335	.8336379	.9064127	.9510208	.9760404	.9889978
15	.3156065	.4740640	.6277388	.7569901	.8532111	.9176169	.9568558	.9788306
16	.2241860	.3673183	.5222351	.6664065	.7841141	.8704374	.9278147	.9620467
17	.1512892	.2716530	.4171019	.5668159	.7013110	.8086307	.8857683	.9362717
18	.0970035	.1916909	.3193647	.4645625	.6079255	.7328118	.8302991	.8993050
19	.0591236	.1289740	.2339473	.3661023	.5094712	.6457279	.7612344	.8496054
20	.0342793	.0827615	.1640183	.2773164	.4119103	.5517156	.6804095	.7868722
21	.0189282	.0506695	.1100001	.2013933	.3207974	.4569636	.5912644	.7121660
22	.0099539	.0296145	.0705715	.1403409	.2404066	.3641190	.4983737	.6261427
23	.0049949	.0165348	.0433361	.0937947	.1732463	.2804358	.4067249	.5306633
24	.0023933	.0088260	.0254767	.0601270	.1200147	.2081755	.3209359	.4402577
25	.0010961	.0045077	.0143481	.0369804	.0799126	.1488688	.2446090	.3614396
26	.0004803	.0022045	.0077460	.0218299	.0511497	.1025269	.1799556	.2820630
27	.0002016	.0010333	.0040112	.0123741	.0314785	.0699984	.1277356	.2128629
28	.0000811	.0004645	.0019938	.0067388	.0186334	.0454329	.0874615	.1552572
29	.0000313	.0002005	.0009520	.0035278	.0106115	.0287227	.0577633	.1094078
30	.0000116	.0000831	.0004369	.0017763	.0058174	.0158418	.0367999	.0744748
31	.0000041	.0000331	.0001929	.0008608	.0030713	.0090515	.0226188	.0489683
32	.0000014	.0000127	.0000819	.0004017	.0015623	.0049866	.0134159	.0311019
33	.0000005	.0000047	.0000335	.0001806	.0007661	.0026498	.0076815	.0191847
34	.0000001	.0000017	.0000132	.0000783	.0003623	.0013588	.0042468	.0113160
35		.0000006	.0000050	.0000327	.0001654	.0006726	.0022673	.0064850
36		.0000002	.0000018	.0000132	.0000739	.0003216	.0011698	.0035930
37		.0000001	.0000007	.0000051	.0000310	.0001485	.0005834	.0019951
38			.0000002	.0000019	.0000127	.0000663	.0002813	.0009978
39			.0000001	.0000007	.0000051	.0000286	.0001319	.0005004
40				.0000002	.0000019	.0000120	.0000592	.0002429
41				.0000001	.0000007	.0000048	.0000259	.0001143
42					.0000003	.0000019	.0000109	.0000520
43					.0000001	.0000007	.0000045	.0000229
44						.0000003	.0000018	.0000098
45						.0000001	.0000007	.0000041
46							.0000003	.0000016
47							.0000001	.0000006
48								.0000002
49								.0000001

r \ p	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999977	.9999994	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999901	.9999973	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 114

N/P	.17	.18	.19	.20	.21	.22	.23	.24
9	.9999644	.9999894	.9999970	.9999992	.9999998	.9999999	1.0000000	1.0000000
10	.9998848	.9999633	.9999889	.9999968	.9999991	.9999996	.9999999	1.0000000
11	.9996683	.9998859	.9999632	.9999887	.9999967	.9999991	.9999997	.9999999
12	.9991089	.9996789	.9998898	.9999639	.9999887	.9999966	.9999990	.9999997
13	.9978855	.9991753	.9996991	.9998954	.9999653	.9999890	.9999967	.9999990
14	.9958395	.9980526	.9992447	.9997216	.9999028	.9999673	.9999895	.9999968
15	.9902316	.9957468	.9982474	.9993148	.9997453	.9999098	.9999695	.9999901
16	.9813422	.9913600	.9968200	.9984338	.9993836	.9997693	.9999177	.9999720
17	.9666626	.9838963	.9943858	.9966571	.9986066	.9994490	.9997950	.9999257
18	.9440841	.9707645	.9896140	.9933134	.9970574	.9987714	.9995124	.9998150
19	.9113090	.9508907	.9744066	.9874153	.9941481	.9974214	.9989815	.9995706
20	.8668728	.9219603	.9569728	.9776370	.9890195	.9948961	.9977500	.9990578
21	.8099878	.8838692	.9314140	.9623584	.9804989	.9904446	.9955636	.9980458
22	.7411936	.8308229	.8960134	.9398043	.9671248	.9830308	.9917073	.9961570
23	.6684559	.7676848	.8495873	.9082797	.9472483	.9713398	.9858672	.9928234
24	.5766252	.6941675	.7910286	.8664755	.9192221	.9538490	.9758635	.9869194
25	.4884436	.6180060	.7335094	.8137847	.8816617	.9289760	.9596971	.9783491
26	.4015529	.5270788	.6485937	.7505557	.8337365	.8953038	.9376653	.9648732
27	.3209978	.4409495	.5640170	.6782072	.7754283	.8510343	.9075449	.9453960
28	.2471844	.3583214	.4793637	.5991597	.7076890	.7982509	.8688247	.9185151
29	.1847813	.2885309	.3963900	.5165834	.6324471	.7350990	.8191474	.8830445
30	.1336559	.2159832	.3185362	.4340070	.5534439	.6638507	.7605095	.8368395
31	.0935153	.1599856	.2485356	.3548713	.4709197	.5868173	.6933679	.7840010
32	.0632811	.1147825	.1881510	.2831176	.3912274	.5069167	.6196162	.7210162
33	.0414137	.0797430	.1381334	.2178896	.3164213	.4273351	.5418038	.6507782
34	.0262127	.0536382	.0983139	.1633932	.2489328	.3511565	.4629598	.5755007
35	.0160482	.0349304	.0678204	.1189145	.1903629	.2810091	.3860536	.4970919
36	.0095051	.0220[illegible]	.0453401	.0839669	.1414316	.2208273	.3138564	.4208666
37	.0054474	.0134460	.0293742	.0575136	.1030492	.1657246	.2485610	.3478196
38	.0030215	.0079497	.0184426	.0382098	.0724917	.1220060	.1916309	.2793344
39	.0016235	.0045524	.0112223	.0246209	.0486194	.0872849	.1437481	.2189712
40	.0008436	.0026256	.0066191	.0153874	.0320944	.0606676	.1048743	.1671615
41	.0004249	.0013576	.0037847	.0093280	.0205634	.0400606	.0743936	.1242139
42	.0002073	.0007073	.0020962	.0054854	.0127883	.0258612	.0513990	.0898118
43	.0000980	.0003572	.0011280	.0030895	.0077198	.0161080	.0343815	.0631695
44	.0000449	.0001749	.0005882	.0016325	.0045237	.0105839	.0223947	.0433123
45	.0000200	.0000831	.0002976	.0008307	.0025736	.0063594	.0141759	.0287456
46	.0000086	.0000383	.0001461	.0004051	.0014216	.0037116	.0087204	.0185236
47	.0000036	.0000171	.0000696	.0002457	.0007625	.0021043	.0052133	.0116940
48	.0000015	.0000074	.0000322	.0001207	.0003972	.0011591	.0030289	.0071509
49	.0000006	.0000031	.0000144	.0000576	.0002010	.0006203	.0017104	.0042517
50	.0000002	.0000013	.0000063	.0000267	.0000988	.0003226	.0009388	.0024579
51	.0000001	.0000005	.0000027	.0000120	.0000472	.0001630	.0005009	.0013817
52		.0000002	.0000011	.0000053	.0000219	.0000801	.0002598	.0007553
53		.0000001	.0000004	.0000022	.0000099	.0000382	.0001310	.0004015
54			.0000002	.0000009	.0000043	.0000177	.0000643	.0002076
55			.0000001	.0000004	.0000018	.0000080	.0000306	.0001044
56				.0000001	.0000008	.0000035	.0000142	.0000511
57				.0000001	.0000003	.0000015	.0000064	.0000243
58					.0000001	.0000006	.0000028	.0000112
59						.0000003	.0000012	.0000051
60						.0000001	.0000005	.0000022
61							.0000002	.0000009
62							.0000001	.0000004
63								.0000002
64								.0000001

N/P	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999970	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999909	.9999972	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000
17	.9999746	.9999917	.9999974	.9999992	.9999998	.9999999	1.0000000	1.0000000
18	.9999336	.9999778	.9999928	.9999976	.9999993	.9999998	.9999999	1.0000000
19	.9998374	.9999413	.9999757	.9999933	.9999979	.9999994	.9999998	.9999999
20	.9996346	.9998575	.9999484	.9999822	.9999941	.9999981	.9999994	.9999998
21	.9991813	.9996736	.9998760	.9999551	.9999848	.9999949	.9999984	.9999995
22	.9983087	.9992888	.9997180	.9998929	.9999612	.9999866	.9999956	.9999986
23	.9966485	.9985418	.9993911	.9997577	.9999101	.9999667	.9999885	.9999962
24	.9935073	.9971468	.9987498	.9994767	.9998130	.9999216	.9999717	.9999908
25	.9889753	.9946783	.9975539	.9988318	.9995820	.9998248	.9999336	.9999761
26	.9819440	.9905001	.9954308	.9977110	.9990917	.9996276	.9998515	.9999441
27	.9694490	.9837907	.9918367	.9956039	.9982286	.9993533	.9996826	.9998753
28	.9488660	.9734883	.9860871	.9920056	.9966715	.9988936	.9993509	.9997336
29	.9180386	.9583437	.9779484	.9859871	.9940853	.9979743	.9987284	.9994551
30	.8764814	.9371038	.9657640	.9801666	.9897013	.9949185	.9976095	.9989309
31	.8256460	.9094746	.9449318	.9685431	.9829310	.9911970	.9956886	.9979853
32	.7656633	.8714888	.9193149	.9519008	.9737610	.9853411	.9924990	.9963488
33	.7468894	.8253849	.8858519	.9280432	.9589943	.9764788	.9874482	.9936893
34	.6809690	.7708543	.8438596	.8980170	.9377433	.9638682	.9797467	.9892459
35	.6078375	.7080749	.7931470	.8605811	.9086479	.9485592	.9684506	.9826131
36	.5319589	.6387810	.7341973	.8137719	.8730648	.9218583	.9525009	.9727439

$$I_x(n,p) = \sum_{i=x}^{n} \binom{n}{i} p^i (1-p)^{n-i}$$

n	.25	.26	.27	.28	.29	.30	.31	.32
37	.4553717	.5650038	.6681816	.7586554	.8327985	.8897352	.9308030	.9586820
38	.3808574	.4893701	.5969111	.6960908	.7814800	.8503002	.9023498	.9393168
39	.3109185	.4145438	.5226660	.6275808	.7284581	.8087115	.8663534	.9137719
40	.2473550	.3458881	.4480699	.5551670	.6569350	.7472784	.8223986	.8810388
41	.1921120	.2771847	.3756250	.4812446	.5866822	.6849162	.7705606	.8405964
42	.1453333	.2164494	.3076595	.4083239	.5138954	.6171217	.7114847	.7923248
43	.1069119	.1673403	.2460110	.3387791	.4409866	.5458684	.6463958	.7366164
44	.0766112	.1286607	.1919237	.2746284	.3703465	.4734314	.5770878	.6744302
45	.0534266	.0916425	.1460034	.2173569	.3041157	.4021704	.5054898	.6078559
46	.0363528	.0650817	.1082607	.1678656	.2440002	.3343027	.4340470	.5370083
47	.0239325	.0449972	.0782178	.1264435	.1911552	.2717043	.3650070	.4688683
48	.0153695	.0302832	.0550475	.0928554	.1461491	.2157658	.3003115	.4060890
49	.0096013	.0198359	.0377297	.0664591	.1090005	.1673181	.2415757	.3496558
50	.0058343	.0126444	.0251808	.0463477	.0798731	.1266394	.1898748	.2994589
51	.0034486	.0078436	.0163621	.0314876	.0568030	.0935153	.1487417	.2537888
52	.0019828	.0047347	.0103503	.0208363	.0398351	.0673300	.1091961	.2128609
53	.0011090	.0027811	.0063737	.0134201	.0361479	.0472948	.0798313	.1763104
54	.0006034	.0015896	.0038205	.0084272	.0171525	.0323750	.0569304	.0936761
55	.0003194	.0008841	.0022392	.0051499	.0109609	.0215996	.0395919	.0677968
56	.0001645	.0004785	.0012661	.0030643	.0068225	.0140489	.0268450	.0478673
57	.0000824	.0002541	.0006999	.0017753	.0041368	.0088956	.0177454	.0329684
58	.0000403	.0001293	.0003766	.0010014	.0024488	.0054908	.0114304	.0221337
59	.0000191	.0000645	.0001973	.0005500	.0014043	.0033009	.0071759	.0144899
60	.0000088	.0000313	.0001006	.0002941	.0007864	.0019338	.0043898	.0092468
61	.0000040	.0000148	.0000499	.0001531	.0004288	.0011028	.0026165	.0057513
62	.0000017	.0000068	.0000241	.0000776	.0002277	.0006188	.0015194	.0034868
63	.0000007	.0000030	.0000113	.0000383	.0001178	.0003316	.0008595	.0020898
64	.0000003	.0000013	.0000052	.0000184	.0000593	.0001748	.0004737	.0011851
65	.0000001	.0000006	.0000023	.0000086	.0000291	.0000897	.0002543	.0006645
66		.0000002	.0000010	.0000039	.0000139	.0000449	.0001329	.0003630
67		.0000001	.0000004	.0000017	.0000065	.0000218	.0000677	.0001928
68			.0000002	.0000008	.0000029	.0000104	.0000336	.0001001
69			.0000001	.0000003	.0000013	.0000048	.0000168	.0000506
70				.0000001	.0000006	.0000021	.0000076	.0000249
71				.0000001	.0000002	.0000009	.0000035	.0000119
72					.0000001	.0000004	.0000016	.0000056
73						.0000002	.0000007	.0000025
74						.0000001	.0000003	.0000011
75							.0000001	.0000006
76								.0000002
77								.0000001

n	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999968	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999918	.9999973	.9999992	.9999997	.9999999	1.0000000	1.0000000	1.0000000
26	.9999790	.9999931	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000
27	.9999533	.9999833	.9999943	.9999981	.9999994	.9999998	1.0000000	1.0000000
28	.9998958	.9999612	.9999863	.9999953	.9999985	.9999995	.9999999	1.0000000
29	.9997776	.9999135	.9999679	.9999887	.9999962	.9999988	.9999996	.9999999
30	.9995447	.9998153	.9999286	.9999739	.9999908	.9999969	.9999990	.9999997
31	.9991050	.9996214	.9998474	.9999414	.9999786	.9999925	.9999978	.9999993
32	.9983086	.9993541	.9996867	.9998747	.9999582	.9999837	.9999940	.9999980
33	.9969234	.9985858	.9993811	.9997421	.9998976	.9999613	.9999861	.9999938
34	.9946079	.9974175	.9988226	.9994890	.9997888	.9999169	.9999688	.9999889
35	.9906845	.9954525	.9978408	.9990241	.9995601	.9998280	.9999389	.9999751
36	.9851208	.9922712	.9961794	.9983023	.9991948	.9996567	.9998607	.9999468
37	.9765255	.9873091	.9934706	.9968027	.9985098	.9993389	.9997188	.9998978
38	.9641682	.9798476	.9892131	.9945047	.9973354	.9987703	.9994398	.9997748
39	.9470301	.9690243	.9827580	.9900649	.9953933	.9977890	.9988000	.9996610
40	.9240874	.9538699	.9733108	.9853002	.9922932	.9961543	.9976736	.9992747
41	.8944246	.9333771	.9599576	.9770836	.9875140	.9935843	.9960035	.9984786
42	.8573650	.9065987	.9417190	.9653599	.9803941	.9894385	.9934855	.9969383
43	.8126011	.8727682	.9176348	.9491875	.9701394	.9838897	.9890976	.9940860
44	.7603014	.8314277	.8868725	.9276086	.9558533	.9743546	.9818139	.9888301
45	.7011716	.7825424	.8488498	.8997461	.9365939	.9617839	.9700597	.9800068
46	.6364534	.7265793	.8033536	.8649179	.9114581	.9446625	.9520487	.9613080
47	.5678484	.6645333	.7506276	.8227550	.8796871	.9220781	.9258036	.9314008
48	.4973935	.5978859	.6914306	.7733033	.8407808	.8938159	.8916750	.8853039
49	.4272653	.5285056	.6270189	.7170907	.7946052	.8574679	.8403471	.8240171
50	.3595945	.4584807	.5590619	.6551420	.7414742	.8145491	.7780668	.7547981
51	.2962668	.3899412	.4895398	.5869344	.6824867	.7648543	.6931388	.6870973

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 144

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
52	.23877770	.32486633	.42053420	.53023927	.63180091	.72080649	.79643163	.85904018
53	.18811352	.26449051	.35409958	.45518365	.55049995	.64411887	.73287851	.80675843
54	.14480300	.21128020	.29119694	.38381129	.47818775	.56853307	.65733759	.75624485
55	.11099005	.16647435	.23956336	.31988991	.41138685	.50123119	.58953677	.69950853
56	.07993360	.12558067	.18559775	.26110693	.34844974	.44439930	.52440028	.63760036
57	.05728631	.09333827	.14348833	.20844771	.29274063	.37764439	.47435586	.57801178
58	.04002284	.06778336	.10815574	.16280649	.24321669	.31475666	.40719356	.52045131
59	.02728619	.04800915	.07962250	.12426689	.19854331	.25694601	.34478882	.46370090
60	.01814403	.03332670	.05723306	.09266787	.14171137	.20531666	.28837598	.37114118
61	.01175594	.02244481	.04014477	.06744945	.10700027	.16047757	.24283920	.30945809
62	.00743316	.01477733	.02748809	.04799917	.07893065	.12886300	.18052863	.25585841
63	.00457800	.00946805	.01835502	.03330056	.05685593	.09157776	.13955383	.20013849
64	.00274486	.00593315	.01195008	.02355333	.03999876	.06680057	.10544668	.15777799
65	.00160083	.00361177	.00758698	.01480986	.02744468	.04758900	.07780806	.12061169
66	.00091170	.00211506	.00469996	.00989992	.01883819	.03330948	.05617787	.09201841
67	.00050094	.00122460	.00283068	.00650311	.01280094	.02284607	.03958607	.06579716
68	.00027757	.00070035	.00166691	.00436945	.00876524	.01561729	.02719658	.04659066
69	.00014454	.00039870	.00095571	.00292063	.00597548	.00960669	.01824140	.03286503
70	.00007447	.00022074	.00053340	.00192842	.00398805	.00660519	.01194411	.02311819
71	.00003774	.00011883	.00029212	.00077285	.00217010	.00371173	.00776330	.01470144
72	.00001882	.00006351	.00015455	.00034027	.00099790	.00222241	.00474486	.00950088
73	.00000886	.00003273	.00007908	.00021169	.00055491	.00112993	.00288804	.00599770
74	.00000400	.00001732	.00004022	.00011138	.00031001	.00071391	.00170143	.00353479
75	.00000178	.00000862	.00001997	.00005382	.00015598	.00044097	.00098824	.00202108
76	.00000078	.00000438	.00000994	.00002590	.00008839	.00022213	.00055528	.00112918
77	.00000033	.00000213	.00000494	.00001240	.00004919	.00011164	.00030223	.00061358
78	.00000013	.00000105	.00000240	.00000586	.00002706	.00005596	.00016112	.00032401
79	.00000005	.00000052	.00000120	.00000269	.00001499	.00002828	.00008336	.00016805
80	.00000002	.00000024	.00000054	.00000122	.00000814	.00001425	.00004184	.00008161
81	.00000001	.00000011	.00000024	.00000054	.00000441	.00000708	.00002089	.00003995
82		.00000005	.00000010	.00000024	.00000237	.00000351	.00001042	.00001937
83		.00000002	.00000004	.00000010	.00000127	.00000174	.00000520	.00000934
84		.00000001	.00000002	.00000004	.00000068	.00000086	.00000260	.00000447
85			.00000001	.00000002	.00000036	.00000043	.00000130	.00000214
86				.00000001	.00000019	.00000021	.00000065	.00000102
87					.00000010	.00000010	.00000032	.00000049
88					.00000005	.00000005	.00000016	.00000023
89					.00000002	.00000002	.00000008	.00000011
					.00000001	.00000001	.00000004	.00000005
								.00000002
								.00000001

r \ p	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
26	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
27	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
28	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
29	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
30	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
31	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
32	.99999994	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
33	.99999984	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
34	.99999962	.99999988	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
35	.99999912	.99999970	.99999991	.99999997	.99999999	1.00000000	1.00000000	1.00000000
36	.99999802	.99999931	.99999977	.99999993	.99999998	.99999999	1.00000000	1.00000000
37	.99999571	.99999844	.99999946	.99999982	.99999994	.99999998	1.00000000	1.00000000
38	.99999108	.99999660	.99999878	.99999958	.99999986	.99999996	.99999999	1.00000000
39	.99998185	.99999286	.99999733	.99999905	.99999965	.99999990	.99999997	.99999999
40	.99996482	.99998549	.99999436	.99999791	.99999287	.99999976	.99999998	.99999998
41	.99992390	.99997140	.99998818	.99999557	.99999838	.99999944	.99999988	.99999994
42	.99987718	.99994575	.99997728	.99999091	.99999655	.99999874	.99999958	.99999986
43	.99978338	.99990096	.99995639	.99998191	.99999267	.99999733	.99999905	.99999968
44	.99962569	.99982158	.99991912	.99996515	.99998573	.99999446	.99999798	.99999898
45	.99937600	.99969111	.99985458	.99993492	.99997033	.99998083	.99999578	.99999844
46	.99899041	.99948115	.99974539	.99988214	.99994795	.99997017	.99999131	.99999678
47	.99841374	.99915460	.99957074	.99979869	.99990503	.99993863	.99998390	.99999389
48	.99757815	.99865998	.99929444	.99964666	.99983180	.99988394	.99996734	.99998670
49	.99640472	.99793703	.99881329	.99941449	.99971072	.99980480	.99993947	.99997440
50	.99480715	.99691144	.99815066	.99905709	.99951664	.99964481	.99989184	.99995818
51	.99269780	.99550033	.99715853	.99852384	.99921494	.99940316	.99980944	.99991316
52	.98999411	.99361664	.99611761	.99775086	.99875996	.99894863	.99967606	.99984676
53	.98638836	.99117778	.99444363	.99666509	.99809420	.99826287	.99944483	.99973717
54	.98258801	.98811476	.99251156	.99518422	.99714868	.99739317	.99903898	.99951188
55	.97784481	.98437028	.98946483	.99322344	.99584494	.99757391	.99865938	.99900044

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 144

x\p	.41	.42	.43	.44	.45	.46	.47	.48
56	.7845116	.7993681	.8603474	.9070243	.9409948	.9643190	.9794680	.9887886
57	.6649430	.7403449	.8190030	.8755439	.9188982	.9488588	.9698108	.9837089
58	.6010348	.6913086	.7709671	.8373578	.8896488	.9285860	.9538884	.9740988
59	.5344187	.6893429	.7166107	.7923514	.8544436	.9085437	.9377619	.9681370
60	.4669413	.5639430	.6568396	.7408078	.8194816	.8702832	.9145381	.9460473
61	.4005133	.4960517	.5929614	.6834336	.7638438	.8313816	.8849043	.9259831
62	.3369443	.4299501	.5286031	.6213373	.7090447	.7854831	.8488647	.8983418
63	.2776076	.3650950	.4593876	.5560887	.6490288	.7336036	.8062988	.8683358
64	.2243189	.3039671	.3937851	.4892875	.5851035	.6788892	.7570581	.8358740
65	.1778754	.2479442	.3309589	.4228849	.5189142	.6136081	.7017803	.7993431
66	.1370401	.1980140	.2726263	.3586715	.4582681	.5483350	.6414546	.7647089
67	.1035706	.1547360	.2199533	.2982802	.3969871	.4817930	.5774810	.6885474
68	.0764973	.1188314	.1734937	.2430326	.3346120	.4167888	.5113137	.6060406
69	.0551920	.0883348	.1341774	.1938918	.2672006	.3581198	.4449313	.5407819
70	.0388846	.0644733	.1013486	.1513580	.2152973	.2983085	.3800918	.4743087
71	.0267489	.0459601	.0748031	.1158515	.1697306	.2370666	.3184885	.4086138
72	.0179489	.0319075	.0539368	.0868891	.1309646	.1894688	.2615458	.3484181
73	.0117830	.0217289	.0379758	.0638700	.0987238	.1476868	.2163496	.2868479
74	.0075063	.0144030	.0261005	.0447679	.0736157	.1185315	.1686716	.2384184
75	.0046749	.0093114	.0178081	.0311214	.0534230	.0838038	.1274787	.1947864
76	.0028385	.0058709	.0114531	.0211140	.0368504	.0609989	.0959398	.1436378
77	.0016790	.0036089	.0073081	.0139753	.0258897	.0433465	.0705518	.1098033
78	.0009688	.0021624	.0045467	.0090819	.0169245	.0300668	.0506688	.0811380
79	.0005444	.0012627	.0027573	.0056788	.0110503	.0203499	.0358837	.0588787
80	.0002980	.0007183	.0016295	.0034843	.0070351	.0134346	.0243038	.0417118
81	.0001588	.0003981	.0009388	.0020833	.0043658	.0086483	.0162107	.0288384
82	.0000824	.0002148	.0005262	.0012136	.0026403	.0054868	.0105341	.0194424
83	.0000417	.0001139	.0002874	.0006886	.0015556	.0033184	.0066946	.0127908
84	.0000205	.0000577	.0001538	.0003805	.0008587	.0019760	.0041301	.0080196
85	.0000098	.0000287	.0000791	.0002047	.0004988	.0011460	.0024917	.0048119
86	.0000046	.0000139	.0000398	.0001071	.0002713	.0006478	.0014611	.0028168
87	.0000021	.0000066	.0000195	.0000546	.0001436	.0003562	.0008341	.0016464
88	.0000009	.0000030	.0000093	.0000270	.0000740	.0001906	.0004638	.0009451
89	.0000004	.0000013	.0000043	.0000130	.0000370	.0000998	.0002508	.0005278
90	.0000002	.0000006	.0000019	.0000061	.0000180	.0000508	.0001317	.0002864
91	.0000001	.0000002	.0000009	.0000028	.0000085	.0000247	.0000674	.0001734
92		.0000001	.0000004	.0000013	.0000039	.0000118	.0000335	.0000898
93			.0000001	.0000005	.0000018	.0000055	.0000168	.0000449
94			.0000001	.0000002	.0000008	.0000025	.0000076	.0000219
95				.0000001	.0000003	.0000011	.0000038	.0000104
96					.0000001	.0000005	.0000016	.0000048
97					.0000001	.0000002	.0000007	.0000021
98						.0000001	.0000003	.0000009
99							.0000001	.0000004
100								.0000002
101								.0000001

x\p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	1.0000000	1.0000000
40	.9999999	1.0000000
41	.9999998	1.0000000
42	.9999996	.9999999
43	.9999990	.9999997
44	.9999976	.9999993
45	.9999946	.9999983
46	.9999883	.9999960
47	.9999751	.9999918

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 144$$

c	.49	.50
48	.9999486	.9999818
49	.9998973	.9999610
50	.9998008	.9999214
51	.9996845	.9998461
52	.9993188	.9997074
53	.9987758	.9994594
54	.9978810	.9990287
55	.9964384	.9983031
56	.9941348	.9971154
57	.9906770	.9952284
58	.9855164	.9923147
59	.9780839	.9879443
60	.9676728	.9815759
61	.9535007	.9725491
62	.9347511	.9601315
63	.9106351	.9434845
64	.8804770	.9216301
65	.8438050	.8944237
66	.8004403	.8606927
67	.7505695	.8203178
68	.6947878	.7733149
69	.6341008	.7200894
70	.5698773	.6614651
71	.5037655	.5986533
72	.4375684	.5331875
73	.3730720	.4668125
74	.3119895	.4013467
75	.2556239	.3385349
76	.2051060	.2799106
77	.1610397	.2266058
78	.1236501	.1796832
79	.0927999	.1393071
80	.0680244	.1055763
81	.0486691	.0781699
82	.0340110	.0565155
83	.0231768	.0398785
84	.0154001	.0274509
85	.0099746	.0184861
86	.0062951	.0120557
87	.0038697	.0076883
88	.0023152	.0047716
89	.0013494	.0028844
90	.0007650	.0016969
91	.0004218	.0009713
92	.0002261	.0005406
93	.0001179	.0002926
94	.0000597	.0001539
95	.0000294	.0000786
96	.0000140	.0000390
97	.0000065	.0000188
98	.0000029	.0000088
99	.0000013	.0000040
100	.0000005	.0000017
101	.0000002	.0000007
102	.0000001	.0000003
103		.0000001

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 145

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7471385	.9465705	.9879246	.9973126	.9994113	.9998731	.9999731	.9999944
2	.4860714	.7884629	.9537720	.9810764	.9949183	.9986984	.9996793	.9999136
3	.1780248	.5561414	.8131849	.9336876	.9779981	.9953997	.9990973	.9997888
4	.0588949	.3301410	.6354131	.8356867	.9351774	.9763740	.9953783	.9990437
5	.0157691	.1664071	.4408986	.6895307	.8553684	.9396340	.9771156	.9919736
6	.0036708	.0721763	.2699963	.5043929	.7361150	.8726581	.9447168	.9780687
7	.0006950	.0273043	.1471483	.3209256	.5914459	.7728769	.8878195	.9498807
8	.0001184	.0091801	.0717026	.1956752	.4394143	.6464065	.8027808	.9011447
9	.0000179	.0027185	.0314580	.1284658	.3013857	.5071548	.6983643	.8180788
10	.0000024	.0007298	.0185023	.0668384	.1908013	.3716530	.5858587	.7313408
11	.0000003	.0001779	.0045318	.0314695	.1116461	.2543997	.4636804	.6169008
12		.0000396	.0018064	.0140030	.0605172	.1683900	.3167388	.4949188
13		.0000081	.0004316	.0056908	.0304678	.0960101	.2161858	.3743084
14		.0000015	.0001309	.0021465	.0144873	.0539840	.1387594	.2770488
15		.0000003	.0000345	.0007844	.0063579	.0288103	.0836116	.1644905
16			.0000085	.0002478	.0025672	.0150488	.0474910	.1108369
17			.0000020	.0000763	.0009869	.0063916	.0255088	.0781518
18			.0000004	.0000221	.0003586	.0027825	.0129859	.0419436
19			.0000001	.0000060	.0001287	.0011444	.0062330	.0209178
20				.0000016	.0000397	.0004465	.0028368	.0119168
21				.0000004	.0000132	.0001644	.0012845	.0058903
22				.0000001	.0000035	.0000576	.0005027	.0027711
23					.0000010	.0000193	.0001964	.0011488
24					.0000003	.0000061	.0000732	.0004338
25					.0000001	.0000019	.0000260	.0002170
26						.0000005	.0000086	.0000848
27						.0000001	.0000029	.0000317
28							.0000009	.0000114
29							.0000003	.0000039
30							.0000001	.0000013
31								.0000004
32								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999788	.9999958	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999883	.9999960	.9999991	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
3	.9998648	.9999668	.9999918	.9999981	.9999996	.9999999	1.0000000	1.0000000
4	.9993108	.9998079	.9999487	.9999868	.9999972	.9999998	1.0000000	1.0000000
5	.9973657	.9991037	.9997596	.9999384	.9999918	.9999993	.9999998	.9999997
6	.9919407	.9973878	.9991005	.9997830	.9999787	.9999978	.9999998	.9999984
7	.9794314	.9923570	.9971997	.9999565	.9999868	.9999984	.9999998	.9999996
8	.9546350	.9809690	.9925147	.9997832	.9999864	.9999984	.9999998	.9999998
9	.9138894	.9595253	.9835887	.9993085	.9997646	.9999818	.9999833	.9999998
10	.8497405	.9232564	.9638763	.9984034	.9995394	.9997548	.9997967	.9999885
11	.7648019	.8684500	.9324227	.9967075	.9987657	.9994098	.9997688	.9999453
12	.6617045	.7937140	.8847155	.9935363	.9971510	.9987246?	.9994639?	.9998784
13	.5478443	.7009860	.8188646	.9878139	.9947231	.9974007?	.9988631?	.9997143
14	.4306365	.5955773	.7356018	.9784463	.9913598	.9954091?	.9977783?	.9994106
15	.3189057	.4851491	.6385732	.9661879	.9868273	.9922929	.9957335	.9988374
16	.2234138	.3779989	.5330405	.9477765	.9793707	.9877085?	.9931915?	.9979381
17	.1518490	.2813546	.4286665	.9187668	.9681014	.9812906	.9890303	.9963954
18	.1018852	.1999010	.3300268	.8760329	.9500656	.9713436?	.9830619?	.9938196
19	.0665388	.1358457	.2433328	.8177579	.9222703	.9567196	.9735941	.9895787
20	.0365153	.0877828	.1717105	.7467823	.8845932	.9360773	.9585538	.9826374
21	.0203043	.0534787	.1159431	.6710421	.8326421	.9069849	.9346362	.9711190
22	.0107610	.0311200	.0749140	.5977670	.7650574	.8676912	.8983073	.9523664
23	.0054412	.0170428	.0463326	.5299803	.6819771	.8202154	.8504728	.9238400
24	.0026875	.0089569	.0274413	.4641671	.5969348	.7618919	.7938043	.8827886
25	.0012199	.0043495	.0155723	.0397580	.0851259	.1571718	.2560580	.3753305
26	.0005350	.0020348	.0084733	.0236480	.0548882	.1090148	.1896536	.2947633
27	.0002267	.0011504	.0044330	.0135088	.0340350	.0788394	.1355666	.2239349
28	.0000919	.0005514	.0023158	.0074150	.0203024	.0466721	.0935024	.1644741
29	.0000358	.0002269	.0010666	.0039131	.0116545	.0290621	.0628179	.1167437
30	.0000134	.0000949	.0004916	.0019865	.0064406	.0173650	.0399444	.0800641
31	.0000048	.0000381	.0002197	.0009706	.0034263	.0100061	.0247460	.0530493
32	.0000017	.0000147	.0000941	.0004548	.0017585	.0055556	.0147963	.0339605
33	.0000006	.0000055	.0000389	.0002071	.0008696	.0029770	.0085413	.0210074
34	.0000002	.0000020	.0000155	.0000906	.0004148	.0015395	.0047614	.0125589
35	.0000001	.0000007	.0000059	.0000382	.0001910	.0007687	.0025648	.0072579
36		.0000002	.0000022	.0000155	.0000849	.0003707	.0013344	.0040557
37		.0000001	.0000008	.0000061	.0000364	.0001728	.0006713	.0021919
38			.0000003	.0000023	.0000151	.0000778	.0003266	.0011451
39			.0000001	.0000009	.0000061	.0000339	.0001537	.0005800
40				.0000003	.0000024	.0000145	.0000700	.0002841
41				.0000001	.0000009	.0000058	.0000308	.0001348
42					.0000003	.0000023	.0000138	.0000619
43					.0000001	.0000009	.0000055	.0000276
44						.0000003	.0000022	.0000119
45						.0000001	.0000008	.0000050
46							.0000003	.0000020
47							.0000001	.0000008
48								.0000003
49								.0000001

r	17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999980	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999916	.9999977	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 14

p	.17	.18	.19	.20	.21	.22	.23	.24
9	.9999688	.9999908	.9999974	.9999993	.9999998	1.0000000	1.0000000	1.0000000
10	.9998978	.9999680	.9999904	.9999973	.9999992	.9999998	.9999999	1.0000000
11	.9997001	.9998998	.9999681	.9999903	.9999972	.9999992	.9999998	.9999999
12	.9992030	.9997161	.9999038	.9999689	.9999904	.9999972	.9999992	.9999998
13	.9980660	.9992659	.9997353	.9999091	.9999762	.9999907	.9999978	.9999992
14	.9956837	.9982547	.9993310	.9997863	.9999155	.9999720	.9999912	.9999973
15	.9910889	.9961618	.9984369	.9993962	.9997788	.9999224	.9999741	.9999917
16	.9828834	.9921496	.9966052	.9986098	.9994596	.9998002	.9999296	.9999763
17	.9691581	.9849938	.9931143	.9970124	.9987714	.9995201	.9998217	.9999368
18	.9478786	.9730742	.9869006	.9939821	.9973632	.9988207	.9995770	.9998428
19	.9168705	.9544680	.9765360	.9885949	.9947591	.9977184	.9990578	.9996896
20	.8744269	.9271678	.9602858	.9795927	.9900965	.9954517	.9980194	.9991809
21	.8196594	.8894136	.9368702	.9654141	.9822888	.9914239	.9960665	.9983888
22	.7528888	.8400832	.9027395	.9443151	.9699334	.9846618	.9925943	.9966102
23	.6758066	.7790498	.8584083	.9145847	.9514234	.9737118	.9867486	.9936235
24	.5913753	.7074005	.8027979	.8748163	.9251076	.9572969	.9774103	.9885796
25	.5034685	.6274511	.7364889	.8243228	.8895494	.9344487	.9632314	.9804827
26	.4163243	.5425097	.6612077	.7632015	.8438008	.9027118	.9427326	.9681074
27	.3339451	.4564528	.5797066	.6926769	.7876730	.8613976	.9144786	.9500705
28	.2595797	.3731944	.4954479	.6149692	.7219143	.8100393	.8772683	.9249665
29	.1953899	.2961732	.4121550	.5330986	.6482479	.7489924	.8304381	.8915574
30	.1423472	.2279618	.3333300	.4505223	.5692438	.6795253	.7739968	.8489927
31	.1003392	.1700653	.2618361	.3706985	.4880396	.6037647	.7088105	.7970189
32	.0684209	.1229191	.1996241	.2966683	.4079628	.5244948	.6365791	.7361328
33	.0451312	.0860501	.1476368	.2307352	.3321305	.4448438	.5597160	.6676359
34	.0287969	.0583371	.1058796	.1742925	.2631049	.3679160	.4810985	.5935675
35	.0177762	.0382979	.0736141	.1278102	.2026624	.2964416	.4037422	.5165180
36	.0106174	.0243478	.0496114	.0909564	.1517072	.2325073	.3304618	.4393527
37	.0061372	.0149900	.0324077	.0628042	.1103195	.1774078	.2635789	.3648949
38	.0034339	.0089390	.0205196	.0420705	.0779068	.1316241	.2047248	.2956869
39	.0018603	.0051639	.0125941	.0273387	.0534226	.0949235	.1547611	.2334584
40	.0009760	.0028904	.0074937	.0172341	.0355646	.0665234	.1139152	.1795950
41	.0004960	.0015679	.0043230	.0105399	.0229849	.0452961	.0814042	.1345813
42	.0002443	.0008244	.0024186	.0062539	.0144211	.0299631	.0566108	.0980683
43	.0001166	.0004202	.0013124	.0036007	.0087842	.0192543	.0382726	.0695636
44	.0000540	.0002078	.0006908	.0020119	.0051949	.0120193	.0251517	.0480020
45	.0000242	.0000996	.0003528	.0010911	.0029831	.0072888	.0160662	.0322176
46	.0000105	.0000463	.0001749	.0005744	.0016635	.0042941	.0099751	.0210361
47	.0000045	.0000209	.0000841	.0002936	.0009009	.0024579	.0060199	.0133499
48	.0000018	.0000092	.0000393	.0001457	.0004739	.0013670	.0035313	.0082412
49	.0000007	.0000039	.0000178	.0000708	.0002422	.0007388	.0020137	.0049475
50	.0000003	.0000016	.0000078	.0000329	.0001203	.0003881	.0011163	.0028884
51	.0000001	.0000006	.0000034	.0000150	.0000580	.0001981	.0006016	.0016400
52		.0000003	.0000014	.0000066	.0000272	.0000983	.0003153	.0009056
53		.0000001	.0000006	.0000028	.0000124	.0000474	.0001607	.0004864
54			.0000002	.0000012	.0000055	.0000223	.0000796	.0002541
55			.0000001	.0000005	.0000024	.0000101	.0000384	.0001292
56				.0000002	.0000010	.0000045	.0000180	.0000639
57				.0000001	.0000004	.0000019	.0000084	.0000307
58					.0000002	.0000008	.0000036	.0000144
59					.0000001	.0000003	.0000016	.0000065
60						.0000001	.0000007	.0000029
61						.0000001	.0000003	.0000013
62							.0000001	.0000005
63								.0000002
64								.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999975	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999884	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
17	.9999707	.9999931	.9999979	.9999994	.9999998	1.0000000	1.0000000	1.0000000
18	.9999439	.9999810	.9999938	.9999981	.9999994	.9999998	1.0000000	1.0000000
19	.9998614	.9999506	.9999832	.9999945	.9999983	.9999995	.9999999	1.0000000
20	.9996778	.9998793	.9999569	.9999853	.9999952	.9999985	.9999996	.9999999
21	.9994821	.9997214	.9998956	.9999627	.9999873	.9999959	.9999987	.9999996
22	.9988266	.9993913	.9997606	.9999103	.9999680	.9999891	.9999964	.9999989
23	.9970891	.9987376	.9994793	.9997955	.9999235	.9999737	.9999907	.9999970
24	.9945861	.9975093	.9989229	.9995568	.9998264	.9999352	.9999769	.9999922
25	.9901833	.9953155	.9978768	.9990880	.9996247	.9998534	.9999454	.9999806
26	.9831768	.9918849	.9960040	.9981968	.9992261	.9996838	.9998769	.9999544
27	.9723977	.9858338	.9928071	.9966027	.9984745	.9993483	.9997749	.9998973
28	.9565618	.9761669	.9877857	.9937703	.9971216	.9987146	.9994537	.9997790
29	.9343160	.9619954	.9794786	.9893923	.9947988	.9978701	.9989214	.9995443
30	.9043992	.9426328	.9673514	.9823664	.9909553	.9955911	.9979563	.9990987
31	.8658399	.9159186	.9500163	.9718016	.9848944	.9923117	.9962799	.9983079
32	.8181890	.8811001	.9268313	.9565602	.9757109	.9870979	.9934859	.9968795
33	.7615379	.8378101	.8948913	.9354446	.9623478	.9791375	.9890140	.9944996
34	.6969098	.7850842	.8551992	.9073260	.9436579	.9674554	.9821348	.9906758
35	.6289456	.7243975	.8060394	.8713047	.9185108	.9509630	.9719584	.9847484
36	.5809863	.6867758	.7501137	.8268785	.8859360	.9285468	.9574449	.9759030

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 145

c	.25	.26	.27	.28	.29	.30	.31	.32
37	.4745178	.5841776	.6860058	.7740880	.8452812	.8991923	.9375292	.9631818
38	.3994660	.5090347	.6161542	.7136089	.7963623	.8621307	.9111699	.9455474
39	.3284032	.4339986	.5427260	.6467636	.7395744	.8169881	.8775121	.9219621
40	.2633959	.3615666	.4682162	.5754429	.6759367	.7639083	.8360246	.8915111
41	.2039727	.2943195	.3951857	.5019429	.6070555	.7036249	.7866303	.8535369
42	.1569530	.2337206	.3260104	.4287417	.5350036	.6374601	.7297268	.8077717
43	.1164923	.1809987	.2626561	.3582516	.4621302	.5672444	.6665729	.7544431
44	.0841864	.1366274	.2065273	.2925884	.3908321	.4951625	.5985317	.6943298
45	.0592328	.1004872	.1584019	.2333921	.3233227	.4235487	.5276666	.6287517
46	.0405463	.0719875	.1184513	.1817231	.2614337	.3546630	.4562081	.5594875
47	.0270126	.0502191	.0863289	.1380417	.2064802	.2904838	.3864156	.4886290
48	.0175108	.0341088	.0613033	.1022600	.1592008	.2325469	.3203678	.4183913
49	.0110433	.0225522	.0424055	.0738501	.1197736	.1818522	.2597841	.3509080
50	.0067761	.0145142	.0285690	.0519769	.0878941	.1388430	.2059020	.2880424
51	.0040450	.0090919	.0187431	.0356485	.0628933	.1034525	.1594829	.2312415
52	.0023493	.0055430	.0119735	.0238187	.0438718	.0751996	.1205852	.1814806
53	.0013275	.0032890	.0074474	.0155024	.0298272	.0533114	.0889344	.1390946
54	.0007298	.0018994	.0045099	.0098275	.0197612	.0368510	.0640297	.1041191
55	.0003904	.0010676	.0026588	.0060676	.0127565	.0248323	.0449669	.0760778
56	.0002032	.0005840	.0015261	.0036483	.0080227	.0163099	.0307966	.0542445
57	.0001029	.0003109	.0008528	.0021363	.0049152	.0104399	.0205649	.0377320
58	.0000507	.0001611	.0004639	.0012181	.0029334	.0065118	.0133874	.0255989
59	.0000243	.0000813	.0002457	.0006764	.0017053	.0039577	.0084948	.0169360
60	.0000114	.0000399	.0001267	.0003657	.0009656	.0023435	.0052535	.0109246
61	.0000052	.0000191	.0000636	.0001926	.0005325	.0013520	.0031662	.0068698
62	.0000023	.0000089	.0000311	.0000987	.0002860	.0007598	.0018595	.0042110
63	.0000010	.0000040	.0000148	.0000493	.0001496	.0004160	.0010641	.0025158
64	.0000004	.0000018	.0000069	.0000240	.0000762	.0002318	.0005933	.0014648
65	.0000002	.0000008	.0000031	.0000113	.0000378	.0001158	.0003225	.0008311
66	.0000001	.0000003	.0000014	.0000052	.0000183	.0000563	.0001706	.0004595
67		.0000001	.0000006	.0000023	.0000086	.0000267	.0000879	.0002475
68		.0000001	.0000002	.0000010	.0000039	.0000138	.0000442	.0001299
69			.0000001	.0000004	.0000018	.0000065	.0000216	.0000664
70				.0000002	.0000008	.0000029	.0000103	.0000331
71				.0000001	.0000003	.0000013	.0000048	.0000161
72					.0000001	.0000006	.0000022	.0000076
73					.0000001	.0000002	.0000010	.0000035
74						.0000001	.0000004	.0000016
75							.0000002	.0000007
76							.0000001	.0000003
77								.0000001

c	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999975	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999934	.9999979	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
26	.9999839	.9999946	.9999982	.9999995	.9999998	1.0000000	1.0000000	1.0000000
27	.9999661	.9999866	.9999955	.9999986	.9999996	.9999999	1.0000000	1.0000000
28	.9999348	.9999687	.9999890	.9999963	.9999988	.9999996	.9999999	1.0000000
29	.9998854	.9999297	.9999743	.9999911	.9999970	.9999991	.9999997	.9999999
30	.9996816	.9998487	.9999424	.9999791	.9999928	.9999976	.9999993	.9999998
31	.9993501	.9996873	.9998759	.9999530	.9999831	.9999942	.9999981	.9999994
32	.9985714	.9993790	.9997430	.9998997	.9999620	.9999864	.9999954	.9999985
33	.9973805	.9988130	.9994881	.9997898	.9999178	.9999694	.9999832	.9999953
34	.9953780	.9978147	.9990181	.9995801	.9998291	.9999337	.9999756	.9999914
35	.9921138	.9961206	.9981845	.9991914	.9996573	.9998617	.9999469	.9999806
36	.9870288	.9933529	.9967609	.9984981	.9993374	.9997218	.9998888	.9999577
37	.9793620	.9889962	.9944187	.9973065	.9987632	.9994596	.9997753	.9999111
38	.9672461	.9823845	.9907032	.9953320	.9977699	.9989863	.9995616	.9998196
39	.9526856	.9727048	.9850173	.9921752	.9961119	.9981618	.9991733	.9996463
40	.9316585	.9590224	.9766173	.9873035	.9934403	.9967755	.9984920	.9993292
41	.9032133	.9403447	.9646312	.9800416	.9892823	.9945237	.9973379	.9987690
42	.8695947	.9157034	.9481025	.9695804	.9830285	.9909892	.9954481	.9978186
43	.8273732	.8842706	.9260643	.9550055	.9739337	.9856251	.9924563	.9963337
44	.7775603	.8454835	.8976393	.9353770	.9611392	.9777499	.9878748	.9937185
45	.7206045	.7991634	.8621577	.9097766	.9437199	.9665808	.9810838	.9898160
46	.6578097	.7456068	.8192766	.8774560	.9207584	.9511666	.9713393	.9839856
47	.5904077	.6856290	.7690613	.8379337	.8914484	.9306601	.9577957	.9755389
48	.5206429	.6205467	.7121495	.7911059	.8551761	.9041035	.9395563	.9636703
49	.4504073	.5520953	.6495610	.7373272	.8116902	.8710583	.9157481	.9475198
50	.3819259	.4822092	.5828458	.6774436	.7611387	.8305539	.8856184	.9263057
51	.3171659	.4138446	.5138735	.6127692	.7041230	.7835497	.8486868	.8989836

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 145$$

x	.33	.34	.35	.36	.37	.38	.39	.40
52	.2377487	.3469898	.4446912	.5430037	.6417549	.7295433	.8045745	.8650438
53	.2048470	.3052909	.3973520	.4760980	.5755411	.6697074	.7536623	.8242144
54	.1591261	.2395185	.3137267	.4000861	.5073047	.6053556	.6965455	.7764516
55	.1207599	.1805689	.2553582	.3429081	.4390281	.5381591	.6343309	.7222026
56	.0894943	.1388472	.2033571	.2822480	.3726825	.4700167	.5685188	.6623643
57	.0647452	.1043049	.1583562	.2274103	.3100605	.4028949	.5008956	.5982517
58	.0457119	.0765205	.1205215	.1792469	.2526351	.3386600	.4333892	.5315148
59	.0314603	.0548039	.0896114	.1381419	.2014646	.2789266	.3679053	.4640107
60	.0211580	.0383073	.0650687	.1040474	.1571499	.2249411	.3061695	.3976507
61	.0138651	.0261265	.0461267	.0765567	.1198458	.1775152	.2495953	.3342401
62	.0088598	.0173827	.0319143	.0550127	.0893172	.1370114	.1991939	.2753341
63	.0055197	.0112800	.0215460	.0385926	.0650257	.1033775	.1555358	.2221286
64	.0033523	.0071382	.0141906	.0264242	.0462301	.0762191	.1187621	.1753979
65	.0019846	.0044044	.0091161	.0176543	.0320869	.0548920	.0886386	.1354821
66	.0011451	.0026494	.0057111	.0115070	.0217359	.0386030	.0646386	.1023212
67	.0006439	.0015536	.0034888	.0073156	.0143672	.0265016	.0460394	.0755246
68	.0003528	.0008879	.0020778	.0045357	.0092645	.0177583	.0321084	.0544606
69	.0001884	.0004946	.0012063	.0027421	.0058269	.0116080	.0217358	.0383528
70	.0000980	.0002685	.0006826	.0016161	.0035740	.0074028	.0143995	.0263692
71	.0000497	.0001420	.0003764	.0009285	.0021374	.0046045	.0093071	.0176954
72	.0000245	.0000732	.0002023	.0005200	.0012462	.0027927	.0058678	.0115871
73	.0000118	.0000367	.0001059	.0002838	.0007062	.0016515	.0036079	.0074017
74	.0000055	.0000180	.0000540	.0001509	.0003923	.0009520	.0021630	.0046115
75	.0000025	.0000086	.0000269	.0000782	.0002117	.0005349	.0012642	.0028017
76	.0000011	.0000040	.0000130	.0000395	.0001113	.0002929	.0007202	.0016594
77	.0000005	.0000018	.0000061	.0000194	.0000570	.0001562	.0003998	.0009581
78	.0000002	.0000008	.0000028	.0000093	.0000285	.0000812	.0002163	.0005391
79	.0000001	.0000003	.0000013	.0000043	.0000138	.0000411	.0001140	.0002955
80		.0000001	.0000005	.0000020	.0000065	.0000203	.0000585	.0001578
81		.0000001	.0000002	.0000009	.0000030	.0000097	.0000292	.0000821
82			.0000001	.0000004	.0000014	.0000045	.0000142	.0000416
83				.0000002	.0000006	.0000021	.0000067	.0000205
84				.0000001	.0000003	.0000009	.0000031	.0000099
85					.0000001	.0000004	.0000014	.0000046
86						.0000002	.0000006	.0000021
87						.0000001	.0000003	.0000009
88							.0000001	.0000004
89								.0000002
90								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999971	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
35	.9999933	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
36	.9999847	.9999947	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000
37	.9999666	.9999880	.9999959	.9999987	.9999996	.9999999	1.0000000	1.0000000
38	.9999294	.9999737	.9999907	.9999969	.9999990	.9999997	.9999999	1.0000000
39	.9998561	.9999443	.9999795	.9999928	.9999976	.9999993	.9999998	.9999999
40	.9997162	.9998858	.9999564	.9999841	.9999945	.9999982	.9999994	.9999998
41	.9994587	.9997737	.9999100	.9999660	.9999878	.9999959	.9999987	.9999996
42	.9990003	.9995656	.9998206	.9999296	.9999738	.9999907	.9999969	.9999990
43	.9982116	.9991925	.9996535	.9998587	.9999459	.9999799	.9999930	.9999977
44	.9968987	.9985454	.9993515	.9997253	.9998895	.9999578	.9999647	.9999948
45	.9947837	.9974591	.9988234	.9994822	.9997836	.9999142	.9999677	.9999885
46	.9914850	.9956935	.9979292	.9990536	.9995892	.9998307	.9999338	.9999755
47	.9865017	.9929141	.9964627	.9983216	.9992434	.9996768	.9998685	.9999494
48	.9792074	.9886747	.9941325	.9971100	.9986475	.9993990	.9997465	.9998986
49	.9688583	.9824069	.9905434	.9951664	.9976581	.9989168	.9995257	.9998030
50	.9546215	.9734220	.9851836	.9921494	.9960388	.9981037	.9991380	.9996283
51	.9356263	.9609300	.9774203	.9875830	.9935071	.9967738	.9984779	.9993186
52	.9110380	.9440797	.9665112	.9809004	.9896470	.9946636	.9973875	.9987662
53	.8801503	.9220223	.9516344	.9714283	.9839379	.9914141	.9956395	.9978977
54	.8424065	.8939949	.9319415	.9583580	.9757415	.9865569	.9929196	.9964886

$$\text{Probability} = \sum_{r=0}^{n} \binom{n}{r} p^{n-r} (1-p)^{r}$$

n = 14

r	.41	.42	.43	.44	.45	.46	.47	.48
55	.7978552	.8594171	.9066312	.9408618	.9643161	.9795077	.9888108	.9941984
56	.7466256	.8179887	.8750396	.9181164	.9488494	.9695722	.9827807	.9907389
57	.6893661	.7697746	.8367301	.8899953	.9305117	.9559702	.9741876	.9856118
58	.6272372	.7152604	.7916226	.8541594	.9025300	.9378783	.9688841	.9782205
59	.5617313	.6553663	.7399839	.8121639	.8702760	.9144951	.9602799	.9678697
60	.4946070	.5914110	.6825411	.7634066	.8313445	.8851330	.9453457	.9537807
61	.4277482	.5250301	.6204320	.7086780	.7857308	.8492601	.9247368	.9351399
62	.3630072	.4580438	.5551373	.6486708	.7337043	.8066906	.8985565	.9111631
63	.3020536	.3923341	.4878648	.5847933	.6760935	.7575602	.8668518	.8811772
64	.2462493	.3296408	.4200802	.5184861	.6139672	.7028220	.8296981	.8447108
65	.1965632	.2714738	.3537721	.4513021	.5486984	.6432443	.7877581	.8015883
66	.1535366	.2189047	.2907993	.3849254	.4824556	.5783592	.7409077	.7519718
67	.1172943	.1729127	.2326057	.3214524	.4183009	.5123969	.6897516	.6964635
68	.0875982	.1338749	.1810651	.2627455	.3587908	.4471429	.6343048	.6360480
69	.0639271	.1008998	.1361594	.2103268	.3051044	.3841310	.5748787	.5738787
70	.0455706	.0744953	.1154618	.1700728	.2586574	.3198630	.4105664	.5061839
71	.0317210	.0537357	.0862131	.1331043	.1902666	.2629653	.3474405	.4401443
72	.0215545	.0378560	.0628905	.0999179	.1484472	.2117282	.2883071	.3757305
73	.0142933	.0260375	.0448388	.0731460	.1133723	.1668070	.2344115	.3146586
74	.0092475	.0174743	.0312069	.0527328	.0845056	.1286489	.1866173	.2588662
75	.0058358	.0114495	.0212011	.0373359	.0615947	.0970292	.1455792	.2076186
76	.0035914	.0073159	.0140555	.0255171	.0438581	.0714982	.1107600	.1633603
77	.0021549	.0045590	.0090905	.0171163	.0304988	.0514666	.0824036	.1257319
78	.0012603	.0027700	.0057341	.0111214	.0205657	.0361755	.0600135	.0946066
79	.0007184	.0016406	.0035267	.0071497	.0136937	.0248127	.0426419	.0695891
80	.0003990	.0009470	.0021144	.0044499	.0088419	.0166156	.0295769	.0499503
81	.0002159	.0005326	.0012365	.0026998	.0055670	.0108500	.0200184	.0350175
82	.0001138	.0002918	.0007034	.0015963	.0034160	.0069087	.0132164	.0239561
83	.0000584	.0001557	.0003901	.0009196	.0020437	.0042883	.0085086	.0159870
84	.0000292	.0000809	.0002107	.0005161	.0011910	.0025940	.0053397	.0104034
85	.0000142	.0000409	.0001108	.0002820	.0006760	.0015287	.0032655	.0065992
86	.0000067	.0000202	.0000567	.0001500	.0003737	.0008774	.0019455	.0040791
87	.0000031	.0000097	.0000283	.0000777	.0002011	.0004904	.0011288	.0024568
88	.0000014	.0000045	.0000137	.0000392	.0001057	.0002668	.0006377	.0014402
89	.0000006	.0000020	.0000064	.0000192	.0000537	.0001412	.0003506	.0008221
90	.0000003	.0000009	.0000030	.0000092	.0000266	.0000727	.0001876	.0004567
91	.0000001	.0000004	.0000013	.0000042	.0000128	.0000364	.0000976	.0002668
92		.0000002	.0000006	.0000019	.0000060	.0000177	.0000494	.0001498
93		.0000001	.0000002	.0000008	.0000027	.0000084	.0000243	.0000663
94			.0000001	.0000004	.0000012	.0000035	.0000116	.0000329
95				.0000001	.0000005	.0000017	.0000054	.0000159
96				.0000001	.0000002	.0000007	.0000024	.0000075
97					.0000001	.0000003	.0000011	.0000034
98						.0000001	.0000005	.0000015
99							.0000002	.0000006
100							.0000001	.0000003
101								.0000001

r	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	1.0000000	1.0000000
40	1.0000000	1.0000000
41	.9999999	1.0000000
42	.9999997	.9999999
43	.9999993	.9999998
44	.9999983	.9999995
45	.9999961	.9999988
46	.9999914	.9999971

$$\text{[illegible]} = \sum_{i=c}^{n} \binom{n}{i} \text{[illegible]}$$

n = 145

x	.49	.50
47	.9999815	.9999936
48	.9999616	.9999862
49	.9999225	.9999711
50	.9998481	.9999412
51	.9997108	.9998838
52	.9994652	.9997768
53	.9990386	.9995834
54	.9981194	.9992440
55	.9971422	.9986659
56	.9953708	.9977093
57	.9923811	.9961720
58	.9880461	.9937716
59	.9817268	.9901295
60	.9727739	.9847591
61	.9604447	.9770615
62	.9419384	.9663353
63	.9234519	.9518030
64	.8982545	.9326573
65	.8617743	.9081269
66	.8216890	.8775582
67	.7750062	.8405053
68	.7221208	.7968160
69	.6618371	.7467018
70	.6013465	.6907773
71	.5361603	.6300592
72	.4700019	.5659204
73	.4046723	.5000000
74	.3419047	.4340796
75	.2838284	.3699408
76	.2295598	.3092227
77	.1826322	.2553982
78	.1419710	.2031840
79	.1079139	.1594947
80	.0801609	.1224418
81	.0581634	.0918731
82	.0419033	.0673427
83	.0294853	.0481970
84	.0192104	.0336647
85	.0126331	.0229305
86	.0080980	.0152692
87	.0050581	.0098705
88	.0031774	.0063284
89	.0019231	.0038280
90	.0010513	.0022907
91	.0005999	.0013141
92	.0003220	.0007560
93	.0001700	.0004166
94	.0000882	.0002232
95	.0000442	.0001162
96	.0000215	.0000588
97	.0000102	.0000289
98	.0000047	.0000138
99	.0000021	.0000064
100	.0000009	.0000029
101	.0000004	.0000012
102	.0000002	.0000005
103	.0000001	.0000002
104		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 146

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.7694642	.9476391	.9888869	.9974201	.9924407	.9998807	.9999750	.9999948
2	.4894821	.7916250	.9553966	.9817258	.9951489	.9987689	.9996999	.9999893
3	.1805053	.5607878	.8168025	.9343160	.9787434	.9936236	.9991987	.9995159
4	.0597892	.3346616	.6407453	.8594963	.9373132	.9778595	.9977781	.9977906
5	.0161973	.1696818	.4460841	.6982545	.8593589	.9418072	.9781609	.9924878
6	.0036922	.0740608	.2751033	.5311184	.7488377	.8766778	.9469840	.9791020
7	.0007238	.0282018	.1508350	.3674643	.5987194	.7788638	.8918088	.9581156
8	.0001241	.0094838	.0739660	.2310859	.4470159	.6539947	.8087389	.9050437
9	.0000189	.0028466	.0326595	.1323536	.3082871	.5155097	.7000953	.8339841
10	.0000026	.0007696	.0130700	.0692746	.1963305	.3799711	.5747142	.7390980
11	.0000003	.0001889	.0047709	.0332671	.1156039	.2614469	.4454234	.6261318
12		.0000434	.0015972	.0147177	.0630757	.1679114	.3251058	.5046908
13		.0000087	.0004929	.0060227	.0319772	.1007450	.2251440	.3858706
14		.0000017	.0001409	.0023083	.0150963	.0565436	.1441798	.2793785
15		.0000003	.0000374	.0008101	.0066594	.0297567	.0876330	.1914067
16			.0000093	.0002681	.0027517	.0147049	.0502808	.1240898
17			.0000022	.0000832	.0010678	.0068387	.0271487	.0761881
18			.0000005	.0000243	.0003902	.0029991	.0138691	.0448324
19			.0000001	.0000067	.0001345	.0012487	.0067057	.0244316
20				.0000017	.0000438	.0004874	.0030734	.0127960
21				.0000004	.0000135	.0001813	.0013378	.0063725
22				.0000001	.0000040	.0000640	.0005538	.0030806
23					.0000011	.0000215	.0002179	.0013646
24					.0000003	.0000069	.0000816	.0005869
25					.0000001	.0000021	.0000293	.0002422
26						.0000006	.0000100	.0000954
27						.0000002	.0000033	.0000359
28							.0000010	.0000130
29							.0000003	.0000045
30							.0000001	.0000015
31								.0000005
32								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999990	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999838	.9999964	.9999993	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
3	.9998754	.9999691	.9999926	.9999983	.9999996	.9999999	1.0000000	1.0000000
4	.9993607	.9998237	.9999535	.9999882	.9999971	.9999993	.9999998	1.0000000
5	.9975407	.9992461	.9997804	.9999389	.9999837	.9999958	.9999990	.9999998
6	.9924289	.9974234	.9991730	.9997482	.9999249	.9999797	.9999946	.9999986
7	.9805482	.9926641	.9974088	.9991369	.9997274	.9999180	.9999764	.9999935
8	.9570477	.9820878	.9930478	.9974697	.9991318	.9997172	.9999124	.9999741
9	.9166645	.9616697	.9856827	.9935196	.9975833	.9991492	.9997160	.9999098
10	.8554239	.9268833	.9659347	.9852603	.9940366	.9977314	.9991847	.9997821
11	.7724464	.8739306	.9358826	.9698304	.9867763	.9945693	.9979000	.9992328
12	.6709833	.8011876	.8899604	.9430164	.9733632	.9882049	.9950971	.9980786
13	.5580916	.7102588	.8261079	.9039066	.9508154	.9765494	.9895324	.9956064
14	.4430052	.6061168	.7447607	.8478144	.9160065	.9569913	.9794103	.9907328
15	.3348745	.4961920	.6492464	.7751469	.8667875	.9267446	.9624410	.9819659
16	.2407651	.3887085	.5453611	.6879459	.8019681	.8834144	.9360885	.9678488
17	.1645598	.2909265	.4402357	.5903879	.7238534	.8256619	.8980131	.9442897
18	.1069255	.2078474	.3409772	.4890649	.6330303	.7537674	.8466534	.9100477
19	.0660749	.1416908	.2538686	.3898493	.5349837	.6698906	.7811479	.8631974
20	.0388568	.0921690	.1795889	.2987038	.4378219	.5779038	.7043984	.8066185
21	.0217633	.0573891	.1220766	.2197801	.3445957	.4826140	.6178207	.7357660
22	.0116199	.0339358	.0794271	.1552068	.2614894	.3899361	.5261566	.6547916
23	.0059200	.0193305	.0494766	.1051747	.1909315	.3040290	.4348475	.5671570
24	.0028807	.0104215	.0295193	.0683927	.1340903	.2286323	.3468045	.4771638
25	.0013402	.0054052	.0168778	.0428871	.0905610	.1657286	.2677200	.3893138
26	.0005967	.0026853	.0092538	.0255818	.0588197	.1157560	.1996143	.3076540
27	.0002545	.0012789	.0048678	.0147255	.0367467	.0776979	.1436813	.2358675
28	.0001041	.0005843	.0024884	.0081463	.0220877	.0505065	.0998123	.1739878
29	.0000408	.0002563	.0011930	.0043333	.0127785	.0315555	.0669106	.1243605
30	.0000154	.0001081	.0005564	.0022177	.0071104	.0190026	.0432854	.0859328
31	.0000056	.0000438	.0002498	.0010925	.0038199	.0110329	.0270257	.0573717
32	.0000019	.0000171	.0001079	.0005184	.0019756	.0061781	.0162888	.0370147
33	.0000007	.0000064	.0000449	.0002371	.0009852	.0033360	.0094795	.0230799
34	.0000002	.0000023	.0000180	.0001045	.0004740	.0017408	.0053284	.0139107
35	.0000001	.0000008	.0000070	.0000445	.0002201	.0008766	.0028938	.0081061
36		.0000003	.0000026	.0000183	.0000987	.0004264	.0015189	.0045680
37		.0000001	.0000009	.0000072	.0000427	.0002005	.0007708	.0024901
38			.0000003	.0000028	.0000179	.0000911	.0003753	.0013135
39			.0000001	.0000010	.0000072	.0000401	.0001797	.0006706
40				.0000004	.0000028	.0000170	.0000826	.0003315
41				.0000001	.0000011	.0000070	.0000367	.0001587
42					.0000004	.0000028	.0000158	.0000736
43					.0000001	.0000011	.0000066	.0000331
44						.0000004	.0000027	.0000144
45						.0000001	.0000011	.0000061
46						.0000001	.0000004	.0000025
47							.0000001	.0000010
48							.0000001	.0000004
49								.0000001
50								.0000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999983	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c;n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

x	.17	.18	.19	.20	.21	.22	.23	.24
8	.99999937	.99999980	.99999995	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
9	.99999787	.99999921	.99999978	.99999994	.99999998	1.00000000	1.00000000	1.00000000
10	.99999099	.99997121	.99999918	.99999977	.99999994	.99999998	1.00000000	1.00000000
11	.99973337	.99991131	.99999723	.99999917	.99999976	.99999993	.99999998	1.00000000
12	.99938875	.99974492	.99991160	.99997732	.99999918	.99999976	.99999993	.99999998
13	.99825593	.99934469	.99977673	.99992111	.99999745	.99999921	.99999977	.99999993
14	.99606887	.99843677	.99940778	.99979869	.99999270	.99999761	.99999925	.99999978
15	.99118651	.99653585	.99866068	.99946882	.99990070	.99999333	.99997780	.99999931
16	.98423524	.98887118	.99669532	.99897670	.99955265	.99990271	.99993899	.99999800
17	.97144863	.98628118	.99377776	.99733319	.99891159	.99958117	.99984665	.99994463
18	.95149112	.97521197	.98808412	.99458882	.99767747	.99905226	.99963332	.99986649
19	.92214109	.95781171	.97850582	.98967284	.99531101	.99798829	.99917677	.99966806
20	.88164284	.93208188	.96337288	.98139311	.99107557	.99585803	.99825081	.99929886
21	.82899699	.89630994	.94083308	.96824908	.98399280	.99231100	.99651577	.99859024
22	.76423908	.84896277	.90911103	.94053497	.97252779	.98614958	.99339899	.99701299
23	.68891185	.79003153	.86680312	.90205307	.95530997	.97682760	.98880930	.99443403
24	.60577286	.72028773	.81335630	.84827060	.93066337	.96126642	.98255881	.98879901
25	.51841187	.64118420	.74908876	.78344255	.89701166	.93956333	.97455425	.98124260
26	.43113888	.55779992	.67555111	.71754258	.85340806	.90969840	.96474473	.97107755
27	.34794096	.47194430	.59519108	.65067810	.79945590	.87048867	.95209724	.95835994
28	.27232218	.38818609	.51145570	.58365108	.73572236	.82133381	.93569253	.94309915
29	.20630221	.31003770	.42798807	.51494728	.66371770	.76242227	.91420668	.92557556
30	.15136458	.24023499	.34853068	.44670376	.58858346	.69480881	.88697772	.90592082
31	.10748061	.18040667	.27541992	.38666632	.50509255	.62043300	.85238038	.88094926
32	.07384704	.13114054	.21144444	.33114743	.42447789	.54419342	.81531983	.85075454
33	.04909044	.09266865	.15751144	.28439218	.34805553	.46836771	.77739345	.81407851
34	.03157377	.06533254	.11381135	.24055010	.27760033	.39484401	.73918805	.77113439
35	.01964977	.04490449	.07974466	.19371067	.21535554	.32121659	.70215341	.72350099
36	.01183446	.03685883	.05417719	.09833272	.16240770	.24657288	.34731163	.45787823
37	.00609889	.01667743	.03567644	.06843447	.11901099	.18952998	.27896220	.38276447
38	.00389351	.01002282	.02277883	.04621733	.08471150	.14169664	.21826118	.31225112
39	.00212708	.00584435	.01411000	.03026850	.05856647	.10299777	.16625288	.24837888
40	.00112634	.00329996	.00846628	.01925550	.03931148	.07277114	.12332328	.19352288
41	.00057756	.00180559	.00492566	.01187787	.02562677	.04996661	.08885887	.14533392
42	.00028871	.00095582	.00278005	.00711111	.01621995	.03333364	.06231133	.10660170
43	.00013033	.00049930	.00155226	.00413114	.00996679	.02161102	.04284903	.07664048
44	.00006646	.00024460	.00088089	.00233296	.00594406	.01361110	.02891695	.05331768
45	.00003293	.00011191	.00047170	.00127552	.00344476	.00853895	.01881559	.03600059
46	.00001139	.00005559	.00022067	.00066777	.00191406	.00495539	.01137161	.02371151
47	.00000555	.00002355	.00010014	.00033497	.00106611	.00286619	.00692996	.01519338
48	.00000283	.00001113	.00004478	.00001753	.00056636	.00161070	.00410337	.00944673
49	.00000099	.00000440	.00002219	.00000853	.00029909	.00086770	.00233627	.00577380
50	.00000044	.00000220	.00000997	.00000404	.00014859	.00044653	.00131227	.00338226
51	.00000011	.00000088	.00000442	.00000186	.00007711	.00023399	.00072200	.00193996
52		.00000033	.00000218	.00000083	.00003337	.00011203	.00038111	.00108819
53		.00000011	.00000097	.00000036	.00001555	.00005586	.00019622	.00058870
54			.00000043	.00000015	.00000669	.00002670	.00009883	.00030999
55			.00000017	.00000006	.00000280	.00001128	.00004479	.00015992
56				.00000002	.00000113	.00000457	.00001827	.00007955
57				.00000001	.00000045	.00000225	.00001105	.00003887
58					.00000017	.00000111	.00000547	.00002183
59					.00000006	.00000054	.00000270	.00001284
60					.00000002	.00000026	.00000139	.00000738
61						.00000012	.00000069	.00000416
62							.00000034	.00000237
63							.00000017	.00000134
64								.00000076

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	.99999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	.99999994	.99999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	.99999979	.99999994	.99999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	.99999937	.99999981	.99999994	.99999998	1.00000000	1.00000000	1.00000000	1.00000000
17	.99998821	.99999943	.99999983	.99999995	.99999999	1.00000000	1.00000000	1.00000000
18	.99995326	.99998847	.99999949	.99999984	.99999995	.99999999	1.00000000	1.00000000
19	.99988021	.99995535	.99999861	.99999955	.99999986	.99999996	.99999999	1.00000000
20	.99973237	.99988978	.99996640	.99998879	.99999961	.99999988	.99999996	.99999999
21	.99933885	.99976625	.99991121	.99996690	.99998896	.99999967	.99999990	.99999997
22	.99871181	.99947772	.99979771	.99992250	.99997736	.99999911	.99999971	.99999991
23	.99744485	.99889076	.99955553	.99982277	.99993364	.99998776	.99999925	.99999976
24	.99518668	.99780287	.99907731	.99966237	.99985645	.99994464	.99999812	.99999937
25	.99118690	.99588859	.99815992	.99932171	.99966832	.99988779	.99999552	.99999843
26	.98449884	.99285548	.99639096	.99864458	.99933417	.99973847	.99998988	.99999628
27	.97509885	.98711081	.99334703	.99730490	.99866925	.99944490	.99997790	.99999184
28	.96098907	.97840027	.98790028	.99461554	.99731540	.99889047	.99995409	.99998268
29	.93987774	.96590080	.98166659	.98906466	.99464682	.99779135	.99990864	.99996194
30	.91118784	.94774446	.97062241	.98433337	.98920683	.99561848	.99982555	.99988413
31	.87547797	.92886641	.95469567	.97475597	.98466580	.99332955	.99967996	.99884473
32	.83007923	.89015289	.93265332	.96082878	.97837741	.98866221	.99435881	.99773884
33	.77869338	.84084494	.90335331	.94135570	.96662231	.98115256	.99004003	.99588889
34	.71130668	.77987170	.86591160	.91151992	.94907080	.97096000	.98488669	.99119994
35	.64368666	.74017760	.81989965	.88133906	.92588035	.95891107	.97510088	.98664588
36	.56968811	.67435570	.76542896	.83933178	.89538827	.93582717	.96194888	.97873899

$$I_x(p,q) = \sum_{j=a}^{p} \binom{n}{j} x^j (1-x)^{n-j}$$

n = 146

x	.25	.26	.27	.28	.29	.30	.31	.32
37	.4936199	.6030530	.7033150	.7886694	.8570711	.9079966	.9437050	.9678523
38	.4418419	.5488719	.6350141	.7308431	.8105488	.8732492	.9193419	.9511904
39	.3861738	.4935080	.5625582	.6654802	.7560429	.8305309	.8879460	.9295094
40	.3296477	.4384729	.4983741	.5954187	.6943916	.7798383	.8408857	.9012984
41	.2803285	.3910298	.4449039	.5325229	.6370310	.7317099	.8019426	.8656886
42	.2392079	.3494763	.3986877	.4792380	.5858987	.6873098	.7674168	.8284166
43	.1966074	.3134063	.3579617	.4329005	.5403635	.6463091	.6361727	.7915088
44	.0939629	.1401639	.2226021	.3109741	.4115086	.5167871	.6194044	.7135660
45	.0654637	.1008837	.1713950	.2499650	.3429004	.4450320	.5496348	.6497367
46	.0457154	.0703974	.1093370	.1961904	.2793815	.3753807	.4783608	.5816581
47	.0303960	.0550789	.0850000	.1502785	.2224167	.3097376	.4080513	.5113037
48	.0198858	.0383975	.0648608	.1122789	.1739119	.2499680	.3406486	.4408674
49	.0126601	.0255569	.0475079	.0818049	.1332075	.1970606	.2785651	.3755026
50	.0078429	.0165041	.0333048	.0581028	.0971391	.1517457	.2256055	.3081594
51	.0047270	.0105017	.0213361	.0403310	.0701435	.1140696	.1730314	.2494178
52	.0027732	.0064657	.0134013	.0271310	.0493800	.0836755	.1358035	.1973037
53	.0015829	.0038751	.0086694	.0178310	.0339001	.0598779	.0987878	.1546488
54	.0008792	.0022609	.0053030	.0114165	.0226803	.0417691	.0717501	.1183118
55	.0004752	.0012838	.0031586	.0071203	.0147878	.0284379	.0508763	.0880810
56	.0002502	.0007097	.0018312	.0043257	.0093955	.0188666	.0351894	.0612318
57	.0001280	.0003819	.0010346	.0025596	.0058164	.0122009	.0237367	.0430160
58	.0000638	.0002001	.0005689	.0014753	.0035098	.0076903	.0156124	.0294815
59	.0000309	.0001020	.0003016	.0008281	.0020614	.0047239	.0100115	.0197081
60	.0000146	.0000507	.0001588	.0004527	.0011801	.0028277	.0062853	.0128489
61	.0000067	.0000245	.0000806	.0002411	.0006581	.0016494	.0038133	.0081674
62	.0000030	.0000115	.0000399	.0001250	.0003575	.0009375	.0022646	.0050618
63	.0000013	.0000053	.0000192	.0000631	.0001898	.0005191	.0013107	.0030383
64	.0000006	.0000024	.0000090	.0000311	.0000975	.0002801	.0007398	.0016011
65	.0000002	.0000010	.0000041	.0000149	.0000490	.0001472	.0004063	.0008339
66	.0000001	.0000004	.0000018	.0000069	.0000240	.0000754	.0002176	.0004184
67		.0000002	.0000008	.0000032	.0000114	.0000376	.0001135	.0002154
68		.0000001	.0000003	.0000014	.0000053	.0000183	.0000577	.0001076
69			.0000001	.0000006	.0000024	.0000087	.0000286	.0000527
70			.0000001	.0000003	.0000011	.0000040	.0000138	.0000258
71				.0000001	.0000005	.0000018	.0000065	.0000125
72					.0000002	.0000008	.0000030	.0000059
73					.0000001	.0000003	.0000013	.0000028
74						.0000001	.0000006	.0000013
75						.0000001	.0000002	.0000006
76							.0000001	.0000004
77								.0000002
78								.0000001

x	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999991	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999980	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999948	.9999983	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999876	.9999957	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000
27	.9999693	.9999893	.9999965	.9999989	.9999997	.9999999	1.0000000	1.0000000
28	.9999304	.9999748	.9999913	.9999971	.9999991	.9999997	.9999999	1.0000000
29	.9998490	.9999430	.9999795	.9999930	.9999977	.9999993	.9999998	.9999999
30	.9996809	.9998762	.9999536	.9999834	.9999943	.9999982	.9999994	.9999998
31	.9993737	.9997422	.9998991	.9999624	.9999867	.9999955	.9999986	.9999996
32	.9987954	.9994838	.9997895	.9999183	.9999698	.9999894	.9999964	.9999989
33	.9977735	.9990055	.9995773	.9998290	.9999342	.9999759	.9999916	.9999978
34	.9960548	.9981542	.9991826	.9996556	.9998619	.9999509	.9999834	.9999954
35	.9931886	.9966966	.9984562	.9993314	.9997208	.9998691	.9999581	.9999849
36	.9887037	.9942936	.9972591	.9987477	.9994557	.9997750	.9999115	.9999669
37	.9818001	.9904775	.9953384	.9977355	.9989787	.9995593	.9998196	.9999292
38	.9719143	.9846335	.9926036	.9960428	.9981374	.9991462	.9996450	.9998368
39	.9579206	.9759955	.9887074	.9933116	.9967253	.9984791	.9992247	.9995786
40	.9385974	.9636742	.9829573	.9890573	.9944288	.9973089	.9987577	.9994560
41	.9132702	.9466951	.9688363	.9826558	.9908207	.9953794	.9977880	.9989931
42	.8811188	.9240814	.9530876	.9733464	.9853484	.9923383	.9961851	.9981988
43	.8413063	.8949577	.9337777	.9602551	.9774987	.9876635	.9936231	.9968483
44	.7939981	.8586711	.9075880	.9424447	.9658732	.9807435	.9896614	.9947810
45	.7394535	.8149132	.8745763	.9189927	.9501650	.9708189	.9837382	.9913744
46	.6785584	.7638160	.8342850	.8890914	.9293541	.9570176	.9751397	.9863178
47	.6127040	.7060314	.7866497	.8521617	.9028803	.9384534	.9630777	.9789188
48	.5436917	.6426747	.7320756	.8079619	.8695946	.9142446	.9464697	.9684168
49	.4735850	.5753607	.6714670	.7566476	.8277800	.8836481	.9238553	.9539800
50	.4045247	.5060239	.6061961	.6990017	.7798389	.8461895	.8973671	.9347314
51	.3386361	.4367198	.5380132	.6360520	.7252166	.8015253	.8650580	.9098364

$$I_{n,m}(x) = \sum_{k=0}^{m} \binom{m}{k} I_{n+k}(x)(-1)^k$$

N	.33	.34	.35	.36	.37	.38	.39	.40
54	.0773560	.3695164	.4609047	.5693993	.6648311	.7500657	.8017547	.8765967
53	.0883046	.3962685	.4909207	.5009041	.6000408	.6924480	.7735141	.8405402
54	.1748140	.2484011	.3359285	.4325704	.5385582	.6490693	.7180311	.7955567
55	.1314207	.1972110	.2757471	.3667762	.4642904	.5636937	.6505944	.7439022
56	.0990119	.1530326	.2215575	.3040857	.3978304	.4959100	.5941855	.6865996
57	.0789184	.1160493	.1741065	.2471519	.3373306	.4354011	.5272607	.6238968
58	.0519989	.0859672	.1337636	.1965857	.2830885	.3830698	.4597167	.5582096
59	.0361881	.0681875	.1004399	.1529397	.2350977	.3376283	.3934440	.4981023
60	.0245670	.0439162	.0736586	.1161214	.1935463	.2984586	.3308465	.4341947
61	.0162717	.0308600	.0527564	.0854546	.1576483	.1955371	.2716593	.3596043
62	.0108115	.0203556	.0368007	.0647693	.1266188	.1524020	.2186505	.2989965
63	.0066219	.0133549	.0251749	.0445039	.0740135	.1161584	.1738625	.2434108
64	.0040676	.0085464	.0167650	.0300048	.0531845	.0865393	.1331039	.1940908
65	.0024359	.0053339	.0108982	.0200114	.0373159	.0699963	.1003868	.1514484
66	.0014221	.0032461	.0069029	.0137200	.0255658	.0447938	.0739986	.1158456
67	.0008093	.0019261	.0042666	.0088245	.0170930	.0311601	.0533933	.0842438
68	.0004489	.0011142	.0025716	.0055368	.0111585	.0210795	.0374066	.0638868
69	.0002497	.0006203	.0015113	.0033078	.0070988	.0139443	.0257460	.0447289
70	.0001378	.0003454	.0008659	.0020215	.0044076	.0090000	.0172607	.0311687
71	.0000656	.0001850	.0004036	.0011761	.0026609	.0056678	.0110931	.0211649
72	.0000328	.0000966	.0002633	.0006671	.0015759	.0034012	.0070891	.0140304
73	.0000160	.0000491	.0001397	.0003688	.0009073	.0020053	.0044892	.0090759
74	.0000076	.0000244	.0000788	.0001987	.0005092	.0011178	.0027965	.0057276
75	.0000035	.0000118	.0000364	.0001044	.0002785	.0006934	.0016147	.0035856
76	.0000016	.0000055	.0000179	.0000534	.0001485	.0003848	.0009323	.0021163
77	.0000007	.0000025	.0000085	.0000266	.0000771	.0002008	.0005047	.0012386
78	.0000001	.0000011	.0000040	.0000129	.0000390	.0001007	.0002578	.0007047
79	.0000001	.0000005	.0000018	.0000061	.0000193	.0000503	.0001339	.0003969
80	.0000001	.0000002	.0000008	.0000028	.0000093	.0000244	.0000701	.0002129
81		.0000001	.0000003	.0000013	.0000043	.0000117	.0000407	.0001184
82			.0000001	.0000006	.0000020	.0000055	.0000201	.0000578
83			.0000001	.0000002	.0000009	.0000030	.0000097	.0000290
84				.0000001	.0000004	.0000014	.0000045	.0000141
85					.0000002	.0000006	.0000021	.0000067
86					.0000001	.0000003	.0000009	.0000031
87						.0000001	.0000004	.0000014
88							.0000002	.0000006
89							.0000001	.0000003
90								.0000001

N	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
35	.9999948	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
36	.9999883	.9999960	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
37	.9999740	.9999909	.9999969	.9999990	.9999997	.9999999	1.0000000	1.0000000
38	.9999447	.9999797	.9999930	.9999977	.9999993	.9999998	.9999999	1.0000000
39	.9998861	.9999567	.9999843	.9999946	.9999982	.9999995	.9999998	1.0000000
40	.9997736	.9999104	.9999663	.9999880	.9999959	.9999987	.9999996	.9999999
41	.9995643	.9998208	.9999300	.9999740	.9999908	.9999969	.9999990	.9999997
42	.9991882	.9996530	.9998591	.9999456	.9999801	.9999931	.9999977	.9999993
43	.9985349	.9993492	.9997253	.9998899	.9999631	.9999849	.9999948	.9999983
44	.9974370	.9988172	.9994813	.9997840	.9999146	.9999650	.9999886	.9999963
45	.9956509	.9979153	.9990504	.9995892	.9998313	.9999349	.9999757	.9999915
46	.9928375	.9964350	.9983137	.9992422	.9996767	.9998691	.9999497	.9999817
47	.9885449	.9940815	.9970933	.9986437	.9993990	.9997473	.9998998	.9999619
48	.9821981	.9904552	.9951345	.9976431	.9989157	.9995265	.9998039	.9999330
49	.9731014	.9850394	.9920867	.9960216	.9981000	.9991386	.9996898	.9998889
50	.9604506	.9771957	.9874883	.9934736	.9967353	.9984777	.9993208	.9997188
51	.9434144	.9661767	.9807585	.9895896	.9946468	.9973856	.9987881	.9994673
52	.9211193	.9511568	.9712021	.9838452	.9913840	.9956343	.9979000	.9990418
53	.8928143	.9312864	.9580314	.9755995	.9865070	.9929089	.9964611	.9983848
54	.8579287	.9057664	.9404095	.9641089	.9794299	.9887912	.9941980	.9971494

$$B(n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 100

x	.41	.42	.43	.44	.45	.46	.47	.48
55	.9161777	.8739397	.9175147	.9485601	.9694575	.9827503	.9907416	.9950010
56	.7676461	.8353886	.8806241	.9201246	.9588094	.9741425	.9866144	.9933961
57	.7108435	.7900245	.8532078	.9003327	.9376637	.9622271	.9798864	.9900788
58	.6507101	.7381564	.8110302	.8696632	.9142318	.9466005	.9697014	.9851660
59	.5885887	.6805216	.7621885	.8306363	.8847900	.9252514	.9539648	.9778361
60	.5261880	.6190791	.7072415	.7849005	.8488781	.8986348	.9331848	.9675434
61	.4651603	.5590101	.6471373	.7337938	.8062659	.8657871	.9118430	.9440878
62	.4065510	.4961009	.5830107	.6750740	.7571162	.8268786	.8813108	.9186780
63	.3520416	.4350345	.5170994	.6120969	.7019049	.7821602	.8449189	.8895704
64	.3021290	.3759780	.4505995	.5477630	.6418416	.7277856	.8010903	.8489147
65	.2569345	.3209040	.3855397	.4813913	.5780249	.6699080	.7884049	.8088840
66	.1711775	.2410301	.3236332	.4156031	.5131553	.6077454	.6970443	.7757048
67	.1321536	.1988630	.2660985	.3581645	.4460135	.5487396	.6347935	.7231078
68	.0997736	.1500968	.2146608	.2986485	.3813973	.4766197	.5739945	.6650178
69	.0736383	.1146034	.1694083	.2383214	.3199775	.4111841	.5072700	.6007740
70	.0530968	.0858851	.1308189	.1900684	.2631701	.3481780	.4413819	.5371134
71	.0373993	.0634546	.0987911	.1483636	.2121435	.2921874	.3771096	.4710435
72	.0257287	.0445854	.0729306	.1132081	.1672669	.2438881	.3160998	.4046894
73	.0173704	.0310013	.0526090	.0845805	.1291049	.2025144	.2597484	.3439884
74	.0113163	.0210737	.0370686	.0617155	.0974536	.1668600	.2090006	.2883348
75	.0072346	.0139820	.0255036	.0439930	.0719074	.1355937	.1647611	.2389894
76	.0045116	.0090520	.0171981	.0306251	.0518410	.0832485	.1270310	.1944043
77	.0027438	.0057169	.0112054	.0209128	.0365046	.0604011	.0957738	.1537938
78	.0016271	.0035213	.0071773	.0139040	.0250968	.0432094	.0705744	.1189467
79	.0009406	.0021149	.0044759	.0089385	.0168401	.0300433	.0509065	.0901819
80	.0005299	.0012383	.0027017	.0056378	.0110258	.0203895	.0357174	.0670325
81	.0002910	.0007066	.0016134	.0034698	.0070407	.0135088	.0245109	.0481888
82	.0001556	.0003929	.0009322	.0020818	.0043844	.0087817	.0164154	.0338256
83	.0000811	.0002129	.0005240	.0012174	.0026616	.0054937	.0107213	.0231888
84	.0000411	.0001103	.0002870	.0006936	.0015747	.0033733	.0068290	.0130035
85	.0000203	.0000577	.0001538	.0003850	.0009078	.0020187	.0040404	.0084888
86	.0000098	.0000289	.0000800	.0002081	.0005097	.0011770	.0025469	.0052807
87	.0000046	.0000141	.0000405	.0001095	.0002787	.0006684	.0015136	.0033358
88	.0000021	.0000067	.0000200	.0000561	.0001484	.0003696	.0008685	.0019778
89	.0000009	.0000031	.0000096	.0000280	.0000769	.0001990	.0004855	.0011188
90	.0000004	.0000014	.0000045	.0000136	.0000388	.0001042	.0002648	.0006321
91	.0000002	.0000006	.0000020	.0000064	.0000190	.0000531	.0001399	.0003476
92	.0000001	.0000003	.0000009	.0000029	.0000091	.0000263	.0000721	.0001868
93		.0000001	.0000004	.0000013	.0000042	.0000127	.0000361	.0000966
94			.0000002	.0000006	.0000019	.0000060	.0000176	.0000490
95			.0000001	.0000002	.0000008	.0000027	.0000083	.0000241
96				.0000001	.0000004	.0000012	.0000038	.0000115
97					.0000001	.0000005	.0000017	.0000053
98					.0000001	.0000002	.0000007	.0000024
99						.0000001	.0000003	.0000011
100							.0000001	.0000004
101							.0000001	.0000002
102								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	1.0000000	1.0000000
40	1.0000000	1.0000000
41	.9999999	1.0000000
42	.9999998	.9999999
43	.9999993	.9999999
44	.9999988	.9999996
45	.9999978	.9999991

$$I_{1-p}(n,n) = \sum_{j=n}^{2n-1} \binom{2n-1}{j} p^j (1-p)^{2n-1-j} \qquad n = 1,2,\ldots$$

N	.49	.50
46	.9999937	.9999979
47	.9999864	.9999954
48	.9999714	.9999897
49	.9999416	.9999787
50	.9998845	.9999568
51	.9997701	.9999185
52	.9995856	.9998303
53	.9992477	.9996801
54	.9986710	.9994137
55	.9977101	.9989950
56	.9961078	.9981876
57	.9937971	.9969406
58	.9901703	.9949710
59	.9846833	.9919505
60	.9771609	.9874443
61	.9664860	.9809103
62	.9520265	.9716984
63	.9329803	.9590691
64	.9085818	.9420301
65	.8781796	.9203981
66	.8413300	.8938425
67	.7978807	.8590317
68	.7480346	.8186606
69	.6923961	.7717589
70	.6319669	.7187395
71	.5681015	.6604102
72	.5041135	.5979898
73	.4366838	.5329602
74	.3736608	.4670398
75	.3119798	.4030108
76	.2560104	.3395818
77	.2057737	.2812605
78	.1610950	.2288411
79	.1246014	.1813394
80	.0937594	.1409683
81	.0682432	.1071575
82	.0495130	.0796079
83	.0347171	.0577699
84	.0237551	.0409309
85	.0158560	.0286016
86	.0103203	.0190997
87	.0065477	.0125557
88	.0040480	.0080495
89	.0024377	.0050282
90	.0014295	.0030594
91	.0008160	.0018124
92	.0004533	.0010450
93	.0002453	.0005863
94	.0001287	.0003199
95	.0000658	.0001697
96	.0000326	.0000875
97	.0000157	.0000438
98	.0000074	.0000213
99	.0000034	.0000101
100	.0000015	.0000046
101	.0000006	.0000021
102	.0000003	.0000009
103	.0000001	.0000004
104		.0000001
105		.0000001

$$\sum_{n=1}^{n} \binom{n}{r} p^r q^{n-r}$$

N	.01	.02	.03	.04	.05	.06	.07	.08
1	.7717695	.9486663	.9886383	.9975233	.9994687	.9998879	.9999767	.9999958
2	.4388819	.7947455	.9369933	.9883526	.9983570	.9990356	.9997191	.9999345
3	.1889950	.5684046	.8203603	.9536184	.9955634	.9983098	.9996098	.9999490
4	.0609964	.3391641	.6440870	.8438691	.9893847	.9970084	.9993547	.9999387
5	.0166353	.1709814	.4519939	.7039049	.9638566	.9940456	.9979888	.9998563
6	.0038174	.0759710	.2900387	.5378039	.9266637	.9885904	.9949678	.9996416
7	.0007535	.0291490	.1654618	.3740105	.8659853	.9784726	.9898650	.9988809
8	.0001301	.0098588	.0876780	.2356410	.7847326	.9614869	.9814570	.9968094
9	.0000199	.0028773	.0438987	.1363009	.6814055	.9338188	.9676399	.9923136
10	.0000027	.0008111	.0136585	.0719978	.5619083	.8934909	.9454840	.9834940
11	.0000003	.0000205	.0050192	.0347074	.4326401	.8365584	.9114737	.9651685
12		.0000459	.0016984	.0154597	.3066008	.7573938	.8643360	.9314360
13		.0000094	.0005860	.0063705	.0338854	.6504749	.8303557	.8993754
14		.0000018	.0001514	.0024377	.0154480	.5298051	.7497184	.8470978
15		.0000003	.0000405	.0008698	.0070818	.0313645	.0916145	.7984446
16		.0000001	.0000101	.0000898	.0029471	.0166080	.0388409	.7094746
17			.0000024	.0000206	.0011800	.0073106	.0387637	.0739963
18			.0000005	.0000066	.0004845	.0030995	.0147987	.0446480
19			.0000001	.0000014	.0001478	.0013401	.0078078	.0260804
20				.0000019	.0000484	.0005327	.0033276	.0137976
21				.0000008	.0000150	.0001997	.0014588	.0068864
22				.0000001	.0000044	.0000711	.0006081	.0033888
23					.0000013	.0000241	.0002414	.0014970
24					.0000003	.0000076	.0000913	.0006303
25					.0000001	.0000024	.0000330	.0002696
26						.0000007	.0000114	.0001071
27						.0000002	.0000038	.0000467
28						.0000001	.0000018	.0000199
29							.0000004	.0000088
30							.0000001	.0000037
31								.0000066
32								.0000028
33								.0000011

N	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999990	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999852	.9999967	.9999993	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9998850	.9999719	.9999933	.9999985	.9999997	.9999999	1.0000000	1.0000000
4	.9994070	.9998383	.9999578	.9999894	.9999974	.9999994	.9999999	1.0000000
5	.9977045	.9993039	.9997994	.9999448	.9999855	.9999963	.9999991	.9999998
6	.9938800	.9976057	.9998330	.9997711	.9999333	.9999880	.9999983	.9999998
7	.9861174	.9931400	.9994039	.9992108	.9997533	.9999687	.9999798	.9999963
8	.9691628	.9831454	.9981075	.9977697	.9992083	.9997483	.9999720	.9999778
9	.9308990	.9637115	.9947189	.9933936	.9977845	.9990287	.9997455	.9999301
10	.8669356	.9303619	.9878070	.9848514	.9944977	.9979899	.9992644	.9997581
11	.7739143	.8793859	.9751803	.9716020	.9877201	.9950119	.9980937	.9993106
12	.6801150	.8004619	.9550110	.9466301	.9751069	.9899959	.9955175	.9988631
13	.5688519	.7193517	.9231516	.9088975	.9537466	.9794811	.9903671	.9976090
14	.4533630	.6165333	.8753789	.8545457	.9206010	.9577895	.9800887	.9951893
15	.3446062	.5071846	.8159530	.7838670	.8731963	.9306792	.9649864	.9897358
16	.2498350	.3994569	.7567885	.6984100	.8101004	.8894807	.9400414	.9796036
17	.1714183	.3007065	.6917995	.6082709	.7329615	.8337478	.9037844	.9617627
18	.1131196	.2161555	.6251066	.5018497	.6443811	.7630387	.8543384	.9316994
19	.0697514	.1483059	.5605496	.4017550	.5475997	.6816333	.7913954	.8875015
20	.0413065	.0971919	.4976496	.3096413	.4499911	.5907815	.7159807	.8159911
21	.0233017	.0607231	.4384030	.2289510	.3566461	.4961065	.6308065	.7471024
22	.0125388	.0360652	.3841185	.1609550	.2728938	.4009390	.5399063	.6697476
23	.0064330	.0207010	.3347711	.1111705	.2001041	.3116660	.4480338	.5811766
24	.0031548	.0113084	.2917146	.0772065	.1414907	.2319878	.3599909	.4916427
25	.0014788	.0059069	.2539684	.0457710	.0962199	.1745351	.2795827	.4033693
26	.0006636	.0029573	.2199919	.0276339	.0639461	.1297588	.2098301	.3207195
27	.0002853	.0014195	.1893500	.0160888	.0396162	.0931988	.1492715	.2466493
28	.0001176	.0006538	.1627034	.0089358	.0239934	.0653413	.1063927	.1839966
29	.0000465	.0002891	.1393302	.0047909	.0139867	.0442087	.0718459	.1311177
30	.0000177	.0001229	.1186266	.0024716	.0078528	.0287600	.0468098	.0900045
31	.0000065	.0000502	.0999836	.0012276	.0042447	.0181486	.0294644	.0619415
32	.0000023	.0000198	.0831236	.0005873	.0022153	.0108993	.0185009	.0409719
33	.0000008	.0000075	.0680519	.0002708	.0011139	.0063356	.0115009	.0263095
34	.0000003	.0000027	.0546410	.0001204	.0005404	.0035644	.0069511	.0165778
35	.0000001	.0000010	.0427883	.0000517	.0002531	.0019976	.0040348	.0102340
36		.0000003	.0000331	.0000214	.0001145	.0010695	.0023251	.0061341
37		.0000001	.0000011	.0000086	.0000500	.0005321	.0013830	.0035286
38			.0000004	.0000033	.0000211	.0002864	.0007872	.0020017
39			.0000001	.0000012	.0000086	.0001472	.0004295	.0011714
40				.0000004	.0000034	.0000703	.0002271	.0006857
41				.0000001	.0000013	.0000324	.0001236	.0003963
42					.0000005	.0000145	.0000670	.0002278
43					.0000002	.0000064	.0000361	.0001306
44					.0000001	.0000028	.0000192	.0000746
45						.0000012	.0000101	.0000424
46						.0000005	.0000053	.0000240
47						.0000002	.0000027	.0000135
48						.0000001	.0000014	.0000076
49							.0000007	.0000042
50							.0000003	.0000023
								.0000013

N	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 147

x	.17	.18	.19	.20	.21	.22	.23	.24
7	.9999985	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999936	.9999983	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999761	.9999931	.9999981	.9999995	.9999999	1.0000000	1.0000000	1.0000000
10	.9999206	.9999757	.9999929	.9999986	.9999995	.9999999	1.0000000	1.0000000
11	.9997636	.9999229	.9999760	.9999929	.9999980	.9999994	.9999999	1.0000000
12	.9993633	.9997785	.9999267	.9999769	.9999930	.9999980	.9999994	.9999999
13	.9984341	.9994193	.9997956	.9999315	.9999781	.9999933	.9999980	.9999995
14	.9964577	.9986005	.9994761	.9998137	.9999370	.9999797	.9999937	.9999982
15	.9925831	.9968802	.9987590	.9995319	.9998322	.9999427	.9999814	.9999942
16	.9855466	.9935318	.9972674	.9989073	.9995854	.9998505	.9999486	.9999832
17	.9736565	.9874680	.9943810	.9976189	.9990441	.9996357	.9998680	.9999544
18	.9548903	.9772109	.9891635	.9951569	.9979354	.9991690	.9996823	.9998844
19	.9271304	.9609496	.9803247	.9906535	.9958067	.9982182	.9992817	.9997248
20	.8885271	.9367142	.9662480	.9830490	.9919649	.9963975	.9984694	.9993827
21	.8379242	.9026664	.9451156	.9708705	.9854290	.9931109	.9969164	.9986911
22	.7752439	.8574671	.9151377	.9524779	.9749219	.9875048	.9941111	.9973704
23	.7017165	.8006422	.8746643	.9261316	.9589255	.9784488	.9893120	.9949817
24	.6198695	.7328501	.8235227	.8903549	.9358157	.9645670	.9815211	.9908821
25	.5332564	.6559639	.7613001	.8440976	.9040762	.9443375	.9694976	.9841934
26	.4459754	.5729269	.6894906	.7872257	.8625658	.9162652	.9518277	.9738011
27	.3620918	.4873971	.6104525	.7205106	.8107889	.8791123	.9270616	.9584021
28	.2850955	.4032581	.5273666	.6457650	.7491082	.8321508	.8939092	.9366094
29	.2175085	.3241029	.4438412	.5656804	.6788390	.7753841	.8514690	.9071134
30	.1607039	.2528033	.3634448	.4835246	.6021901	.7096833	.7994500	.8688964
31	.1149408	.1912422	.2892684	.4027381	.5220483	.6367948	.7383332	.8214243
32	.0795647	.1402400	.2235997	.3265121	.4416448	.5592037	.6694328	.7648447
33	.0532991	.0996559	.1677611	.2574323	.3641673	.4798718	.5948280	.7000760
34	.0345516	.0686104	.1221167	.1972492	.2923958	.4010961	.5171697	.6287994
35	.0216768	.0457606	.0862177	.1468015	.2284268	.3281543	.4393928	.5533300
36	.0131630	.0295657	.0590307	.1060831	.1735268	.2610033	.3643864	.4763853
37	.0077379	.0185074	.0391905	.0744132	.1281242	.2020788	.2946835	.4007906
38	.0044044	.0112245	.0252289	.0506607	.0919172	.1522156	.2322224	.3291744
39	.0024280	.0065967	.0157489	.0334715	.0640563	.1115114	.1782147	.2637082
40	.0012966	.0037575	.0095338	.0214610	.0433573	.0794212	.1331274	.2059283
41	.0006709	.0020748	.0055976	.0133540	.0285012	.0549833	.0967648	.1566633
42	.0003365	.0011108	.0031880	.0080646	.0181950	.0369949	.0684187	.1160623
43	.0001636	.0005767	.0017616	.0047273	.0112808	.0241900	.0470496	.0837037
44	.0000771	.0002908	.0009445	.0026900	.0067927	.0153709	.0314633	.0587815
45	.0000353	.0001419	.0004915	.0014861	.0039728	.0094914	.0204590	.0401269
46	.0000157	.0000673	.0002483	.0007972	.0022571	.0056958	.0129354	.0266649
47	.0000067	.0000310	.0001218	.0004153	.0012458	.0033219	.0079523	.0172304
48	.0000028	.0000138	.0000580	.0002102	.0006681	.0018831	.0047537	.0108415
49	.0000011	.0000060	.0000268	.0001033	.0003481	.0010376	.0027632	.0066330
50	.0000005	.0000025	.0000121	.0000494	.0001763	.0005558	.0015619	.0039479
51	.0000002	.0000010	.0000053	.0000229	.0000868	.0002895	.0008586	.0022860
52	.0000001	.0000004	.0000022	.0000103	.0000415	.0001466	.0004591	.0012878
53		.0000002	.0000009	.0000045	.0000193	.0000722	.0002388	.0007058
54		.0000001	.0000004	.0000019	.0000087	.0000346	.0001208	.0003764
55			.0000001	.0000008	.0000038	.0000161	.0000594	.0001953
56			.0000001	.0000003	.0000016	.0000073	.0000285	.0000986
57				.0000001	.0000007	.0000032	.0000133	.0000485
58					.0000003	.0000014	.0000060	.0000238
59					.0000001	.0000006	.0000027	.0000108
60						.0000002	.0000011	.0000049
61						.0000001	.0000005	.0000022
62							.0000002	.0000009
63							.0000001	.0000004
64								.0000002
65								.0000001

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999983	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999947	.9999984	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999850	.9999953	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000
18	.9999600	.9999866	.9999958	.9999987	.9999996	.9999999	1.0000000	1.0000000
19	.9998997	.9999652	.9999885	.9999963	.9999989	.9999997	.9999999	1.0000000
20	.9997633	.9999136	.9999695	.9999900	.9999968	.9999991	.9999997	.9999999
21	.9994783	.9997977	.9999261	.9999743	.9999913	.9999973	.9999992	.9999998
22	.9988057	.9995814	.9998281	.9999373	.9999782	.9999928	.9999977	.9999993
23	.9977659	.9990557	.9996306	.9998549	.9999478	.9999817	.9999939	.9999981
24	.9957372	.9981092	.9992033	.9996808	.9998783	.9999558	.9999847	.9999949
25	.9922434	.9963910	.9984060	.9993309	.9997329	.9998985	.9999638	.9999873
26	.9865136	.9934209	.9969550	.9986615	.9994407	.9997777	.9999158	.9999697
27	.9775518	.9885242	.9944369	.9974400	.9988807	.9995347	.9998159	.9999307
28	.9641637	.9808141	.9902630	.9953112	.9978557	.9990680	.9996147	.9998484
29	.9450382	.9692042	.9836468	.9917631	.9960615	.9982108	.9992873	.9996835
30	.9188782	.9524655	.9736054	.9861011	.9930542	.9967034	.9985131	.9993623
31	.8845794	.9293331	.9589971	.9774404	.9882227	.9941683	.9972509	.9987694
32	.8414293	.8986578	.9386050	.9647288	.9807747	.9900581	.9951108	.9977164
33	.7898897	.8595803	.9112641	.9468088	.9697469	.9836666	.9916253	.9959808
34	.7307234	.8117514	.8760230	.9225234	.9540501	.9741297	.9861683	.9929744

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 147

r	.25	.26	.27	.28	.29	.30	.31	.32
35	.6610317	.7553967	.8323218	.8908570	.9325531	.9604255	.9779478	.9883265
36	.5881825	.6914499	.7801357	.8510982	.9042047	.9414634	.9660838	.9818648
37	.5126352	.6215120	.7200089	.8029949	.8681814	.9161805	.9493572	.9709261
38	.4370879	.5479369	.6534584	.7468744	.8240403	.8836740	.9268934	.9543302
39	.3641914	.4730346	.5821169	.6836979	.7711496	.8431464	.8976706	.9344474
40	.2962792	.3994620	.5083730	.6150316	.7122705	.7950418	.8609944	.9102967
41	.2351583	.3296770	.4347301	.5429320	.6468656	.7391466	.8164949	.8770700
42	.1819081	.2656882	.3636461	.4697578	.5765271	.6766296	.7643193	.8362636
43	.1372576	.2081465	.2979217	.3979386	.5043277	.6090092	.7051588	.7877989
44	.1006490	.1602650	.2397383	.3297383	.4323175	.5382437	.6402544	.7321075
45	.0721635	.1198365	.1849731	.2670490	.3627968	.4665591	.5713316	.6701681
46	.0502775	.0873838	.1406205	.2112479	.2978080	.3962399	.5004553	.6034391
47	.0341009	.0619937	.1048467	.1631295	.2389365	.3294149	.4298471	.5338182
48	.0225134	.0488667	.0753345	.1229171	.1872683	.2678709	.3616773	.4634070
49	.0144665	.0288695	.0530370	.0903376	.1433018	.2129208	.2978711	.3943794
50	.0090472	.0189319	.0354097	.0647394	.1070189	.1653402	.2399330	.3287498
51	.0055066	.0120883	.0243415	.0452279	.0779723	.1253725	.1889514	.2688151
52	.0032618	.0075151	.0158819	.0307968	.0554071	.0927937	.1453704	.2140346
53	.0018802	.0045486	.0100550	.0204350	.0383916	.0670171	.1092229	.1659638
54	.0010551	.0026004	.0062119	.0132125	.0259340	.0472157	.0801131	.1272592
55	.0005762	.0015378	.0037376	.0083233	.0170766	.0324432	.0573472	.0947343
56	.0003063	.0008590	.0021901	.0051082	.0109592	.0217380	.0400523	.0688535
57	.0001585	.0004672	.0012499	.0030541	.0068543	.0142006	.0272870	.0488448
58	.0000798	.0002474	.0006946	.0017768	.0041775	.0090435	.0181310	.0338125
59	.0000391	.0001275	.0003760	.0010093	.0024810	.0056138	.0117478	.0229356
60	.0000187	.0000640	.0001982	.0005578	.0014357	.0033966	.0074218	.0150434
61	.0000087	.0000313	.0001018	.0003003	.0008095	.0020089	.0045712	.0096658
62	.0000039	.0000149	.0000509	.0001575	.0004447	.0011510	.0027447	.0060556
63	.0000017	.0000069	.0000248	.0000805	.0002380	.0006446	.0016064	.0036994
64	.0000007	.0000031	.0000118	.0000400	.0001241	.0003518	.0009164	.0022034
65	.0000003	.0000014	.0000054	.0000194	.0000631	.0001871	.0005095	.0012794
66	.0000001	.0000006	.0000024	.0000092	.0000312	.0000969	.0002761	.0007242
67	.0000001	.0000002	.0000011	.0000042	.0000151	.0000490	.0001458	.0003995
68		.0000001	.0000005	.0000019	.0000071	.0000241	.0000750	.0002149
69			.0000002	.0000008	.0000032	.0000115	.0000376	.0001126
70			.0000001	.0000004	.0000014	.0000054	.0000184	.0000578
71				.0000001	.0000006	.0000025	.0000088	.0000286
72				.0000001	.0000003	.0000011	.0000041	.0000139
73					.0000001	.0000005	.0000018	.0000066
74						.0000002	.0000008	.0000030
75						.0000001	.0000003	.0000014
76							.0000001	.0000006
77							.0000001	.0000003
78								.0000001

r	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999994	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999988	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999896	.9999966	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000
27	.9999751	.9999918	.9999978	.9999993	.9999997	.9999999	1.0000000	1.0000000
28	.9999438	.9999787	.9999931	.9999978	.9999993	.9999998	.9999999	1.0000000
29	.9998759	.9999538	.9999836	.9999945	.9999982	.9999995	.9999998	1.0000000
30	.9997398	.9998989	.9999686	.9999868	.9999956	.9999986	.9999996	.9999999
31	.9994761	.9997878	.9999182	.9999700	.9999895	.9999965	.9999989	.9999997
32	.9989859	.9995717	.9998279	.9999142	.9999760	.9999917	.9999973	.9999991
33	.9981108	.9991661	.9996516	.9998611	.9999473	.9999810	.9999935	.9999979
34	.9966086	.9984436	.9993207	.9997180	.9998886	.9999588	.9999850	.9999949
35	.9941879	.9971988	.9987335	.9994481	.9997730	.9999118	.9999670	.9999863
36	.9902830	.9951100	.9976881	.9989578	.9995838	.9998183	.9999097	.9999741
37	.9841389	.9917731	.9959487	.9980999	.9991833	.9996418	.9998554	.9999448
38	.9750063	.9868198	.9931198	.9966328	.9984476	.9993185	.9997151	.9998887
39	.9624718	.9798381	.9887860	.9942949	.9972478	.9987377	.9994496	.9997919
40	.9449411	.9678438	.9821648	.9900869	.9952705	.9977486	.9989788	.9995899
41	.9216388	.9504680	.9728088	.9840604	.9921587	.9961101	.9980668	.9991783
42	.8916618	.9317701	.9591161	.9756978	.9873694	.9933[illegible]08	.9964108	.9985143
43	.8544114	.9048898	.9408161	.9649679	.9803749	.98[illegible]74	.9946883	.9973978
44	.8096131	.8710068	.9167844	.9488864	.9701006	.9833[illegible]8	.9918068	.9955707
45	.7574834	.8297908	.8861304	.9274384	.9559770	.9745[illegible]0	.9860446	.9927131
46	.6986838	.7811087	.8483669	.8998589	.9369818	.9622897	.9784902	.9883408
47	.6344389	.7258716	.8033380	.8654564	.9122663	.9455078	.9677819	.9810766
48	.5664687	.6648136	.7511764	.8238781	.8810617	.9234439	.9530688	.9706168

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 147

r	.33	.34	.35	.36	.37	.38	.39	.40
49	.4967202	.5988526	.6926600	.7751471	.8428814	.8952710	.9334715	.9597546
50	.4872146	.5896007	.6890409	.7197686	.7975771	.8603841	.9081569	.9424308
51	.3603183	.4602830	.5618772	.6587139	.7454269	.8184748	.8764349	.9197944
52	.3575454	.3983656	.4933994	.5933943	.6871738	.7696204	.8378606	.8910220
53	.3404716	.3277728	.4247111	.5255624	.6240189	.7143409	.7923303	.8557660
54	.1900839	.2681288	.3587193	.4571705	.5575227	.6536108	.7401529	.8135325
55	.1468825	.2146433	.2968601	.3902035	.4825473	.5888176	.6820829	.7645648
56	.1109028	.1680535	.2405379	.3265088	.4220486	.5216683	.6193050	.7093406
57	.0817898	.1286336	.1907144	.2676480	.3569105	.4540548	.5533662	.6488579
58	.0588963	.0961951	.1478036	.2147895	.2958413	.3876954	.4860620	.5844844
59	.0413996	.0702726	.1120967	.1686522	.2401871	.3249740	.4192904	.5178912
60	.0284000	.0501864	.0830286	.1295040	.1900813	.2668001	.3548935	.4509217
61	.0190092	.0349084	.0600722	.0972066	.1484106	.2145061	.2945083	.3854405
62	.0124124	.0237258	.0424424	.0712960	.1128359	.1687938	.2394459	.3231796
63	.0079055	.0157352	.0292747	.0510794	.0838553	.1299313	.1906148	.2656051
64	.0049105	.0101813	.0197084	.0357365	.0608812	.0977945	.1484927	.2138184
65	.0029744	.0064261	.0129477	.0244091	.0431898	.0719426	.1131464	.1685051
66	.0017567	.0039559	.0082992	.0162729	.0299148	.0517101	.0842900	.1299307
67	.0010115	.0023749	.0051893	.0105869	.0202263	.0363033	.0613688	.0979602
68	.0005678	.0013903	.0031649	.0067202	.0133507	.0248874	.0436511	.0722290
69	.0003107	.0007935	.0018824	.0041613	.0085987	.0166557	.0303248	.0520320
70	.0001657	.0004416	.0010918	.0025133	.0054033	.0108793	.0205700	.0366160
71	.0000862	.0002395	.0006174	.0014804	.0033122	.0069343	.0136205	.0251640
72	.0000436	.0001866	.0003404	.0008503	.0019803	.0043121	.0088019	.0168648
73	.0000216	.0000693	.0001829	.0004762	.0011547	.0026157	.0055500	.0110577
74	.0000104	.0000325	.0000958	.0002600	.0006565	.0015474	.0034139	.0070669
75	.0000049	.0000160	.0000489	.0001383	.0003639	.0008927	.0020483	.0044064
76	.0000022	.0000076	.0000243	.0000718	.0001966	.0005021	.0011984	.0026800
77	.0000010	.0000036	.0000118	.0000363	.0001035	.0002753	.0006837	.0015897
78	.0000004	.0000016	.0000056	.0000179	.0000531	.0001471	.0003802	.0009194
79	.0000002	.0000007	.0000026	.0000086	.0000266	.0000766	.0002061	.0005184
80	.0000001	.0000003	.0000011	.0000040	.0000129	.0000389	.0001089	.0002849
81		.0000001	.0000005	.0000018	.0000061	.0000192	.0000561	.0001526
82		.0000001	.0000002	.0000008	.0000028	.0000093	.0000281	.0000796
83			.0000001	.0000003	.0000013	.0000043	.0000137	.0000405
84				.0000001	.0000006	.0000020	.0000065	.0000201
85				.0000001	.0000002	.0000009	.0000030	.0000097
86					.0000001	.0000004	.0000014	.0000045
87						.0000002	.0000006	.0000021
88						.0000001	.0000003	.0000009
89							.0000001	.0000004
90								.0000002
91								.0000001

r	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999984	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
35	.9999961	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
36	.9999909	.9999970	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000
37	.9999798	.9999930	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000
38	.9999547	.9999844	.9999947	.9999983	.9999995	.9999998	1.00000	1.0000000
39	.9999101	.9999664	.9999880	.9999960	.9999987	.9999996	.99999	1.0000000
40	.9998197	.9999398	.9999741	.9999909	.9999970	.9999990	.99999	.9999999
41	.9996501	.9998884	.9999256	.9999808	.9999931	.9999977	.9999993	.9999998
42	.9993214	.9997835	.9998695	.9999581	.9999849	.9999949	.9999983	.9999995
43	.9988088	.9994768	.9997828	.9999144	.9999480	.9999867	.9999968	.9999988
44	.9978871	.9990406	.9995862	.9998306	.9998342	.9999787	.9999915	.9999978
45	.9963838	.9983941	.9993557	.9996749	.9997688	.9999497	.9999818	.9999937
46	.9939910	.9970868	.9986305	.9993948	.9991462	.9998991	.9999619	.9999864
47	.9903049	.9950700	.9976180	.9989070	.9984240	.9998033	.9999830	.9999714
48	.9848003	.9919783	.9959767	.9980834	.9971332	.9996281	.9998487	.9999417
49	.9768310	.9873140	.9933972	.9967351	.9954671	.9993170	.9997114	.9998845

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 147

x	.41	.42	.43	.44	.45	.46	.47	.48
50	.9656422	.9804900	.9894056	.9945947	.9973659	.9987817	.9994656	.9997778
51	.9504025	.9708046	.9836523	.9912985	.9956001	.9978880	.9990308	.9995648
52	.9302502	.9574651	.9753114	.9863727	.9928523	.9964399	.9983174	.9992460
53	.9044193	.9393320	.9636248	.9792276	.9887017	.9941636	.9971374	.9986686
54	.8722318	.9164848	.9479669	.9691648	.9826146	.9906854	.9953616	.9977133
55	.8332956	.8893069	.9283594	.9554016	.9739451	.9855292	.9923661	.9961782
56	.7875441	.8515801	.9010470	.9371162	.9619511	.9781021	.9880343	.9937822
57	.7353120	.8090774	.8684368	.9135132	.9458293	.9677082	.9816988	.9901488
58	.6773644	.7599410	.8291620	.8839058	.9247706	.9535728	.9727435	.9847942
59	.6148785	.7047282	.7831870	.8478061	.8980347	.9348880	.9604805	.9771245
60	.5493769	.6444169	.7308689	.8050241	.8650372	.9108781	.9439359	.9664449
61	.4826171	.5803621	.6729821	.7557206	.8254400	.8808805	.9224956	.9519864
62	.4164505	.5142072	.6107002	.7004707	.7792336	.8444354	.8953786	.9339514
63	.3526722	.4477575	.5455281	.6402559	.7267940	.8013719	.8620228	.9088798
64	.2928744	.3828352	.4791945	.5764228	.6689061	.7518779	.8221138	.8768254
65	.2388343	.3211325	.4135154	.5105949	.6067424	.6965408	.7756630	.8414307
66	.1899379	.2640771	.3502473	.4445499	.5417966	.6363480	.7230638	.7981044
67	.1481534	.2127452	.2909481	.3800775	.4757773	.5726423	.6651114	.7483926
68	.1130494	.1678066	.2368662	.3188356	.4104746	.5070348	.6029811	.6931163
69	.0843502	.1295222	.1888677	.2622254	.3476164	.4419845	.5381615	.6326705
70	.0615163	.0977812	.1474106	.2112996	.2887334	.3771576	.4723492	.5689993
71	.0438353	.0721694	.1125618	.1667136	.2350505	.3162879	.4073175	.5035090
72	.0305101	.0520557	.0840506	.1287213	.1874164	.2600542	.3447744	.4379477
73	.0207359	.0366814	.0613473	.0972118	.1462778	.2094900	.2862304	.3740675
74	.0137575	.0252433	.0437510	.0717761	.1116968	.1652368	.2328916	.3134056
75	.0089881	.0169605	.0304766	.0517909	.0834032	.1275396	.1855912	.2575639
76	.0056280	.0111226	.0207296	.0365069	.0609713	.0962835	.1447641	.2073203
77	.0034606	.0071176	.0137636	.0251302	.0434063	.0710593	.1104645	.1633827
78	.0020850	.0044435	.0089160	.0168878	.0302303	.0512464	.0824180	.1259852
79	.0012220	.0027056	.0056375	.0110759	.0205556	.0360997	.0600675	.0950050
80	.0006983	.0016065	.0034760	.0070374	.0136419	.0248303	.0428093	.0700278
81	.0003809	.0009299	.0020900	.0044237	.0088337	.0166703	.0297780	.0504303
82	.0002111	.0005247	.0012251	.0026925	.0055797	.0109207	.0202192	.0354670
83	.0001117	.0002885	.0007000	.0015977	.0034369	.0069786	.0133966	.0243498
84	.0000575	.0001546	.0003897	.0009241	.0020638	.0043487	.0086564	.0163133
85	.0000289	.0000807	.0002114	.0005208	.0012079	.0026418	.0054570	.0106612
86	.0000141	.0000410	.0001117	.0002859	.0006808	.0015642	.0033529	.0067948
87	.0000067	.0000203	.0000575	.0001529	.0003827	.0009023	.0020077	.0042209
88	.0000031	.0000098	.0000288	.0000796	.0002071	.0005071	.0011713	.0025554
89	.0000014	.0000046	.0000140	.0000404	.0001091	.0002775	.0006455	.0015072
90	.0000006	.0000021	.0000067	.0000199	.0000559	.0001478	.0003682	.0008657
91	.0000003	.0000009	.0000031	.0000096	.0000279	.0000766	.0001983	.0004842
92	.0000001	.0000004	.0000014	.0000045	.0000135	.0000387	.0001039	.0002635
93		.0000002	.0000006	.0000020	.0000064	.0000190	.0000530	.0001396
94		.0000001	.0000003	.0000009	.0000029	.0000091	.0000263	.0000719
95			.0000001	.0000004	.0000013	.0000042	.0000127	.0000360
96				.0000002	.0000006	.0000019	.0000059	.0000175
97				.0000001	.0000002	.0000008	.0000027	.0000083
98					.0000001	.0000004	.0000012	.0000038
99						.0000001	.0000005	.0000017
100						.0000001	.0000002	.0000007
101							.0000001	.0000003
102								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	1.0000000	1.0000000
40	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 147

c	.49	.50
41	.9999999	1.0000000
42	.9999999	1.0000000
43	.9999996	.9999999
44	.9999991	.9999997
45	.9999980	.9999994
46	.9999954	.9999985
47	.9999900	.9999967
48	.9999787	.9999927
49	.9999562	.9999843
50	.9999135	.9999674
51	.9998302	.9999343
52	.9996799	.9998714
53	.9994132	.9997552
54	.9989540	.9995469
55	.9981859	.9991843
56	.9969381	.9985713
57	.9949685	.9975641
58	.9919474	.9959562
59	.9874433	.9934612
60	.9809154	.9896974
61	.9717167	.9841773
62	.9591117	.9763043
63	.9423129	.9653837
64	.9205368	.9506496
65	.8930764	.9313111
66	.8593867	.9066173
67	.8191713	.8759371
68	.7724593	.8388462
69	.7196590	.7952098
70	.6615772	.7452492
71	.5993956	.689· 789
72	.5346037	.629 040
73	.4688943	.5654750
74	.4040321	.5000000
75	.3417135	.4345250
76	.2834354	.3707960
77	.2303897	.3104211
78	.1833956	.2547508
79	.1428752	.2047902
80	.1088720	.1611536
81	.0811026	.1240629
82	.0590337	.0933827
83	.0419675	.0686689
84	.0291265	.0493504
85	.0197265	.0346163
86	.0130327	.0236957
87	.0083962	.0158227
88	.0052728	.0103026
89	.0032267	.0065388
90	.0019235	.0040438
91	.0011166	.0024359
92	.0006310	.0014287
93	.0003470	.0008157
94	.0001857	.0004531
95	.0000966	.0002448
96	.0000489	.0001286
97	.0000240	.0000657
98	.0000115	.0000326
99	.0000053	.0000157
100	.0000024	.0000073
101	.0000010	.0000033
102	.0000004	.0000015
103	.0000002	.0000006
104	.0000001	.0000003
105		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7740518	.9497126	.9889791	.9976224	.9994252	.9998946	.9999783	.9999956
2	.4362708	.7978241	.9385330	.9829604	.9956633	.9988987	.9997378	.9999394
3	.1854939	.5699914	.8238590	.9380580	.9863531	.9942265	.9984089	.9995798
4	.0628164	.3437086	.6512570	.8470061	.9413936	.9797130	.9935152	.9990583
5	.0170769	.1763054	.4577470	.7094796	.8670630	.9461312	.9801798	.9979621
6	.0039454	.0779134	.2853834	.5444479	.7543934	.8843977	.9512702	.9912508
7	.0007841	.0300560	.1583320	.3805622	.6130632	.7904841	.8994101	.9563578
8	.0001364	.0102434	.0786207	.2420398	.4621673	.6688816	.8202260	.9184471
9	.0000210	.0031169	.0351699	.1403124	.3221924	.5320789	.7151793	.8451493
10	.0000029	.0008545	.0142657	.0743780	.2075931	.3962463	.5921855	.7541184
11	.0000004	.0002127	.0052791	.0361910	.1237546	.2757311	.4635049	.6440898
12		.0000484	.0017922	.0162296	.0683972	.1772256	.3419942	.5240585
13		.0000101	.0005610	.0067341	.0351341	.1088999	.2375778	.4048971
14		.0000020	.0001637	.0025950	.0168193	.0619393	.1553574	.2964960
15		.0000004	.0000439	.0009320	.0075241	.0330350	.0956813	.2056007
16		.0000001	.0000110	.0003129	.0031538	.0165534	.0555550	.1349922
17			.0000026	.0000985	.0012418	.0078085	.0304491	.0839545
18			.0000006	.0000292	.0004604	.0034743	.0157762	.0494943
19			.0000001	.0000081	.0001611	.0014609	.0077386	.0276863
20				.0000021	.0000533	.0005816	.0035992	.0147111
21				.0000005	.0000167	.0002196	.0015896	.0074337
22				.0000001	.0000050	.0000788	.0006676	.0035766
23					.0000014	.0000269	.0002670	.0016404
24					.0000004	.0000087	.0001018	.0007180
25					.0000001	.0000027	.0000371	.0003003
26						.0000008	.0000129	.0001201
27						.0000002	.0000043	.0000460
28						.0000001	.0000014	.0000169
29							.0000004	.0000059
30							.0000001	.0000020
31								.0000007
32								.0000002
33								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999991	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999864	.9999971	.9999994	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999042	.9999744	.9999940	.9999986	.9999997	.9999999	1.0000000	1.0000000
4	.9994500	.9998516	.9999617	.9999905	.9999977	.9999995	.9999999	1.0000000
5	.9978578	.9993573	.9998169	.9999502	.9999870	.9999967	.9999992	.9999998
6	.9933224	.9977755	.9993014	.9997919	.9999409	.9999840	.9999958	.9999990
7	.9826319	.9936866	.9977829	.9992775	.9997769	.9999344	.9999816	.9999950
8	.9611837	.9841449	.9939758	.9978546	.9992795	.9997707	.9999306	.9999799
9	.9237967	.9656549	.9856825	.9944347	.9979696	.9993010	.9997720	.9999292
10	.8669783	.9336969	.9697378	.9871305	.9949250	.9981117	.9993365	.9997790
11	.7872063	.8843395	.9423452	.9734303	.9886012	.9954205	.9982604	.9993812
12	.6899969	.8155383	.8998713	.9499074	.9767466	.9899242	.9959038	.9984307
13	.5783196	.7282627	.8399385	.9132064	.9565234	.9797092	.9911397	.9963638
14	.4617030	.6268142	.7624454	.8610439	.9249101	.9623127	.9823444	.9923450
15	.3543943	.5181194	.6700881	.7923484	.8793590	.9350042	.9673777	.9846798
16	.2578184	.4102296	.5681146	.7086648	.8185543	.8952905	.9437831	.9718071
17	.1784218	.3105815	.4633483	.6138076	.7430289	.8415499	.9091720	.9514253
18	.1174501	.2246106	.3628058	.5133705	.6554011	.7736207	.8617463	.9212807
19	.0735639	.1550909	.2723678	.4136943	.5601072	.6931412	.8008368	.8794930
20	.0438665	.1022396	.1958886	.3206949	.4626804	.6035007	.7278929	.8250328
21	.0249222	.0643629	.1349201	.2388978	.3687810	.5093782	.6435836	.7581246
22	.0135020	.0387110	.0889898	.1709106	.2832591	.4159853	.5535413	.6804443
23	.0069819	.0222574	.0562193	.1173917	.2094887	.3282196	.4618147	.5950296
24	.0034493	.0122422	.0340308	.0774112	.1491008	.2499494	.3731379	.5059012
25	.0016296	.0064464	.0197475	.0490159	.1021036	.1835865	.2916334	.4174808
26	.0007370	.0032523	.0109913	.0298104	.0672717	.1300023	.2202930	.3339434
27	.0003193	.0015733	.0058716	.0174208	.0426441	.0887358	.1607351	.2586685
28	.0001327	.0007303	.0030124	.0097869	.0260244	.0583813	.1132445	.1938017
29	.0000529	.0003256	.0014852	.0052883	.0152893	.0370272	.0770279	.1405537
30	.0000203	.0001395	.0007042	.0027499	.0086517	.0226428	.0505817	.0985218
31	.0000075	.0000575	.0003213	.0013768	.0047174	.0133542	.0320694	.0667644
32	.0000026	.0000228	.0001412	.0006642	.0024797	.0075985	.0196341	.0437390
33	.0000009	.0000087	.0000598	.0003088	.0012571	.0041727	.0116107	.0277035
34	.0000003	.0000032	.0000244	.0001385	.0006150	.0022123	.0066335	.0169669
35	.0000001	.0000011	.0000096	.0000599	.0002904	.0011329	.0036628	.0100497
36		.0000004	.0000036	.0000250	.0001325	.0005606	.0019552	.0057582
37		.0000001	.0000013	.0000101	.0000584	.0002681	.0010093	.0031925
38			.0000005	.0000039	.0000249	.0001240	.0005041	.0017131
39			.0000002	.0000015	.0000103	.0000555	.0002436	.0008900
40			.0000001	.0000005	.0000041	.0000240	.0001140	.0004478
41				.0000002	.0000016	.0000101	.0000517	.0002182
42				.0000001	.0000006	.0000041	.0000227	.0001031
43					.0000002	.0000016	.0000096	.0000472
44					.0000001	.0000006	.0000040	.0000209
45						.0000002	.0000016	.0000090
46						.0000001	.0000006	.0000038
47							.0000002	.0000015
48							.0000001	.0000006
49								.0000008
50								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{c}^{n} \binom{n}{r} p^{r} (1-p)^{n-r}$$

n = 148

p	.17	.18	.19	.20	.21	.22	.23	.24
7	.9999987	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999945	.9999995	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999721	.9999941	.9999984	.9999996	.9999999	1.0000000	1.0000000	1.0000000
10	.9999300	.9999789	.9999939	.9999983	.9999996	.9999999	1.0000000	1.0000000
11	.9997903	.9999324	.9999792	.9999939	.9999989	.9999998	.9999999	1.0000000
12	.9994314	.9998045	.9999361	.9999801	.9999941	.9999993	.9999998	.9999999
13	.9985921	.9994040	.9998205	.9999406	.9999813	.9999943	.9999984	.9999996
14	.9967937	.9987479	.9995368	.9998373	.9999456	.9999827	.9999947	.9999985
15	.9933418	.9971899	.9988952	.9995883	.9998542	.9999509	.9999848	.9999958
16	.9867438	.9941345	.9975508	.9990322	.9996372	.9998708	.9999568	.9999838
17	.9756778	.9885595	.9949294	.9978766	.9991870	.9996830	.9998865	.9999613
18	.9580806	.9790572	.9901548	.9956333	.9981682	.9992717	.9997250	.9999018
19	.9318496	.9638766	.9820041	.9915518	.9962537	.9984274	.9993739	.9997631
20	.8950897	.9410766	.9689326	.9845703	.9927717	.9967981	.9986562	.9994648
21	.8465267	.9087950	.9491308	.9733126	.9860015	.9938339	.9974736	.9988571
22	.7858996	.8656030	.9208335	.9561580	.9771264	.9887301	.9947563	.9976674
23	.7142161	.8108707	.8825163	.9314008	.9622847	.9804411	.9904158	.9955550
24	.6337835	.7450527	.8332776	.8974943	.9406687	.9676210	.9833130	.9918660
25	.5479806	.6690035	.7731224	.8533451	.9107415	.9487880	.9722630	.9857987
26	.4600131	.5878735	.7031344	.7986001	.8712830	.9224411	.9558918	.9762953
27	.3763520	.5027925	.6254667	.7336536	.8216621	.8872860	.9327370	.9620979
28	.2981849	.4184031	.5431529	.6607141	.7620612	.8424823	.9015342	.9418396
29	.2289903	.3383508	.4597110	.5816973	.6935956	.7878728	.8612303	.9141940
30	.1703607	.2656373	.3787201	.4999557	.6182864	.7241375	.8114144	.8780690
31	.1237206	.2033232	.3033619	.4188954	.5388781	.6528302	.7523901	.8338176
32	.0855787	.1494204	.2360768	.3417573	.4585295	.5762737	.6853799	.7784238
33	.0577642	.1069611	.1783704	.2712483	.3804375	.4973248	.6119871	.7156805
34	.0377386	.0741986	.1307891	.2092858	.3074678	.4190507	.5350311	.6459058
35	.0238655	.0498736	.0930385	.1568911	.2418603	.3443774	.4572815	.5714427
36	.0146103	.0324816	.0641962	.1142268	.1850558	.2757765	.3816379	.4948521
37	.0086603	.0204981	.0429602	.0807472	.1376588	.2150422	.3107151	.4189333
38	.0049711	.0125354	.0278817	.0554112	.0995206	.1631886	.2465868	.3463623
39	.0027640	.0074297	.0175301	.0369093	.0690071	.1204672	.1906365	.2794201
40	.0014889	.0042686	.0107147	.0238631	.0477041	.0864810	.1434975	.2179754
41	.0007773	.0023777	.0063455	.0149754	.0316210	.0603596	.1051288	.1684869
42	.0003933	.0012843	.0036459	.0091225	.0203593	.0409524	.0749383	.1258066
43	.0001930	.0006729	.0020326	.0053940	.0127327	.0270071	.0519645	.0914698
44	.0000916	.0003420	.0010997	.0030974	.0077352	.0173111	.0350485	.0647400
45	.0000424	.0001687	.0005775	.0017269	.0045550	.0107849	.0229900	.0445968
46	.0000190	.0000807	.0002945	.0009350	.0026174	.0065308	.0146658	.0298950
47	.0000083	.0000375	.0001458	.0004917	.0014581	.0038442	.0090984	.0195008
48	.0000035	.0000169	.0000701	.0002512	.0007894	.0021996	.0054893	.0123760
49	.0000014	.0000074	.0000327	.0001247	.0004153	.0012236	.0032210	.0076431
50	.0000006	.0000032	.0000149	.0000602	.0002124	.0006618	.0018388	.0045923
51	.0000002	.0000013	.0000066	.0000282	.0001056	.0003481	.0010204	.0026848
52	.0000001	.0000005	.0000028	.0000129	.0000510	.0001780	.0005510	.0015273
53		.0000002	.0000012	.0000057	.0000240	.0000886	.0002894	.0008455
54		.0000001	.0000005	.0000025	.0000110	.0000428	.0001479	.0004555
55			.0000002	.0000010	.0000049	.0000202	.0000736	.0002388
56			.0000001	.0000004	.0000021	.0000092	.0000356	.0001218
57				.0000002	.0000009	.0000041	.0000168	.0000605
58				.0000001	.0000004	.0000018	.0000077	.0000293
59					.0000001	.0000008	.0000034	.0000138
60					.0000001	.0000003	.0000015	.0000063
61						.0000001	.0000006	.0000028
62							.0000003	.0000012
63							.0000001	.0000005
64								.0000008
65								.0000001

p	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999986	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999956	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999874	.9999961	.9999988	.9999997	.9999999	1.0000000	1.0000000	1.0000000
18	.9999662	.9999890	.9999966	.9999990	.9999997	.9999999	1.0000000	1.0000000
19	.9999148	.9999708	.9999904	.9999970	.9999991	.9999997	.9999999	1.0000000
20	.9997974	.9999270	.9999749	.9999918	.9999974	.9999992	.9999998	.9999999
21	.9995451	.9998278	.9999380	.9999787	.9999930	.9999978	.9999994	.9999998
22	.9990324	.9996154	.9998546	.9999477	.9999821	.9999941	.9999988	.9999995
23	.9980459	.9991843	.9996766	.9998780	.9999562	.9999850	.9999971	.9999985
24	.9962444	.9983553	.9993160	.9997296	.9998983	.9999635	.9999916	.9999959
25	.9931169	.9968378	.9986313	.9994289	.9997750	.9999157	.9999699	.9999898
26	.9879460	.9941931	.9973468	.9988490	.9995254	.9998139	.9999305	.9999783
27	.9797920	.9897974	.9951168	.9977821	.9990431	.9996076	.9998469	.9999431
28	.9675106	.9828187	.9913859	.9959073	.9981530	.9992080	.9996771	.9998747
29	.9498196	.9732227	.9854332	.9927566	.9965818	.9984680	.9993474	.9997386
30	.9254182	.9568176	.9763166	.9876865	.9939263	.9971556	.9987345	.9994647
31	.8931541	.9353475	.9629414	.9798654	.9896238	.9949247	.9976428	.9989591
32	.8528169	.9066334	.9441109	.9682880	.9829346	.9912852	.9957743	.9980534
33	.8023246	.8697464	.9186462	.9518264	.9729450	.9855802	.9927058	.9964980
34	.7438650	.8241890	.8855389	.9293233	.9586021	.9769908	.9878600	.9939171

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

r \ p	.25	.26	.27	.28	.29	.30	.31	.32
35	.6779546	.7700489	.8441214	.8997236	.9387672	.9645368	.9804961	.9890139
36	.6063948	.7080909	.7942860	.8622307	.9124257	.9471520	.9697203	.9835246
37	.5315220	.6397603	.7362994	.8164638	.8786288	.9237654	.9545830	.9748349
38	.4559747	.5670873	.6714456	.7685882	.8368418	.8934260	.9338572	.9610009
39	.3824155	.4925010	.6013783	.7013673	.7869049	.8554447	.9067352	.9428099
40	.3132573	.4185883	.5[illegible]2839	.6342582	.7298484	.8095332	.8723665	.9186649
41	.2504386	.3476211	.4546137	.5631199	.6656200	.7559152	.8308898	.8877026
42	.1952806	.2823253	.3826388	.4902466	.5960362	.6953847	.7804938	.8493617
43	.1484402	.2236994	.3152074	.4180480	.5252655	.6298953	.7234988	.8033076
44	.1099512	.1729222	.2535442	.3488344	.4532005	.5594733	.6603746	.7499888
45	.0793349	.1303479	.1991185	.2846020	.3829578	.4880645	.5926976	.6899846
46	.0557490	.0957771	.1525957	.2268722	.3166505	.4173357	.5224870	.6247905
47	.0381450	.0685795	.1140669	.1766026	.2560075	.3494624	.4517356	.5560949
48	.0254102	.0478418	.0831405	.1341766	.2022521	.2863341	.3828099	.4859376
49	.0164782	.0325093	.0590720	.0994598	.1560520	.2294059	.3176310	.4164688
50	.0104020	.0215156	.0409045	.0719069	.1175410	.1796144	.2579076	.3497509
51	.0063917	.0138676	.0275999	.0506911	.0863958	.1373628	.2047619	.2875060
52	.0038230	.0087044	.0181441	.0348371	.0619510	.1025674	.1588805	.2313724
53	.0022850	.0053199	.0116202	.0233363	.0433261	.0747501	.1204286	.1820264
54	.0013615	.0031663	.0072496	.0152348	.0295467	.0531562	.0891372	.1396644
55	.0006960.	.0018349	.0044057	.0096923	.0196453	.0368750	.0644047	.1051422
56	.0003738	.0010355	.0026080	.0060084	.0127333	.0249496	.0454137	.0771353
57	.0001955	.0005690	.0015037	.0036293	.0080447	.0164618	.0312443	.0552476
58	.0000995	.0003045	.0008445	.0021359	.0049538	.0105906	.0209693	.0386229
59	.0000493	.0001587	.0004620	.0012247	.0029730	.0066427	.0137366	.0263482
60	.0000238	.0000805	.0002462	.0006842	.0017308	.0040618	.0087628	.0175369
61	.0000113	.0000398	.0001278	.0003724	.0009911	.0024210	.0054549	.0113662
62	.0000051	.0000192	.0000646	.0001975	.0005505	.0014066	.0033109	.0072107
63	.0000023	.0000090	.0000318	.0001020	.0002979	.0007966	.0019592	.0044534
64	.0000010	.0000041	.0000153	.0000514	.0001571	.0004396	.0011303	.0026821
65	.0000004	.0000018	.0000071	.0000252	.0000808	.0002365	.0006356	.0015751
66	.0000002	.0000008	.0000032	.0000120	.0000404	.0001240	.0003485	.0009019
67	.0000001	.0000003	.0000014	.0000056	.0000197	.0000633	.0001868	.0005034
68		.0000001	.0000006	.0000025	.0000094	.0000315	.0000970	.0002740
69		.0000001	.0000003	.0000011	.0000043	.0000153	.0000492	.0001453
70			.0000001	.0000005	.0000020	.0000073	.0000244	.0000751
71				.0000002	.0000009	.0000033	.0000117	.0000379
72				.0000001	.0000004	.0000015	.0000055	.0000186
73					.0000002	.0000007	.0000025	.0000089
74					.0000001	.0000003	.0000011	.0000042
75						.0000001	.0000005	.0000019
76							.0000002	.0000008
77							.0000001	.0000004
78								.0000002
79								.0000001

r \ p	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999967	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999916	.9999973	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000
27	.9999799	.9999933	.9999978	.9999993	.9999998	.9999999	1.0000000	1.0000000
28	.9999537	.9999837	.9999946	.9999983	.9999995	.9999998	1.0000000	1.0000000
29	.9998981	.9999626	.9999869	.9999957	.9999986	.9999996	.9999999	1.0000000
30	.9997847	.9999176	.9999700	.9999896	.9999966	.9999989	.9999997	.9999999
31	.9995631	.9998256	.9999337	.9999760	.9999918	.9999973	.9999994	.9999998
32	.9991477	.9996451	.9998595	.9999471	.9999810	.9999935	.9999979	.9999994
33	.9983996	.9993053	.9997133	.9998874	.9999580	.9999851	.9999950	.9999984
34	.9971043	.9986899	.9994365	.9997695	.9999104	.9999668	.9999883	.9999961
35	.9949465	.9976177	.9989325	.9995453	.9998158	.9999291	.9999740	.9999910
36	.9914848	.9958185	.9980485	.9991343	.9996349	.9998536	.9999443	.9999798
37	.9861330	.9929092	.9965545	.9984088	.9993015	.9997085	.9998844	.9999564
38	.9781538	.9883726	.9941193	.9971734	.9987087	.9994393	.9997686	.9999092
39	.9666740	.9815459	.9902890	.9951435	.9976917	.9988873	.9995584	.9998174
40	.9507261	.9716268	.9844717	.9919230	.9960071	.9981841	.9991424	.9996447
41	.9293215	.9577025	.9759361	.9869866	.9933111	.9967385	.9984831	.9993309
42	.9015907	.9388074	.9638293	.9796723	.9891403	.9944857	.9973390	.9987799
43	.8667040	.9140093	.9472211	.9691907	.9828998	.9907776	.9954756	.9978441
44	.8243945	.8825180	.9251760	.9546566	.9738651	.9846778	.9923386	.9963681
45	.7746651	.8438045	.8968488	.9361470	.9612028	.9748849	.9868377	.9938894
46	.7180576	.7977138	.8615971	.9097845	.9440159	.9608437	.9794368	.9895825
47	.6556278	.7445474	.8190948	.8776402	.9214145	.9418735	.9679983	.9826481

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

r/p	.33	.34	.35	.36	.37	.38	.39	.40
48	.5888959	.6851086	.7694275	.8388444	.8926074	.9318888	.9588069	.9761804
49	.5197362	.6206791	.7131538	.7926872	.8570081	.9059767	.9411144	.9648993
50	.4502185	.5589424	.6515146	.7397648	.8143397	.8736418	.9180996	.9493603
51	.3824231	.4838510	.5853845	.6806936	.7617225	.8344003	.8888065	.9288490
52	.3182585	.4154575	.5171672	.6169093	.7087874	.7801650	.8529046	.9025730
53	.2593059	.3497343	.4486472	.5499818	.6473824	.7333471	.8100871	.8690964
54	.2067118	.2884078	.3818179	.4817916	.5821241	.6766683	.7605021	.8304379
55	.1611389	.2328284	.3185108	.4143117	.5146988	.6134391	.7047308	.7841594
56	.1227761	.1838941	.2602526	.3494389	.4470193	.5471880	.6437884	.7314200
57	.0913967	.1420298	.2081526	.2888379	.3810094	.4797479	.5790824	.6730518
58	.0664510	.1072208	.1628744	.2338186	.3184369	.4130560	.5183106	.6102238
59	.0471735	.0790863	.1246221	.1852617	.2607791	.3488841	.4653313	.5545885
60	.0326899	.0569774	.0932024	.1433975	.2091244	.2889062	.3990003	.4777095
61	.0221081	.0400832	.0681069	.1088337	.1641248	.2343778	.3180586	.4116330
62	.0145093	.0275279	.0486128	.0806238	.1259985	.1861445	.2609208	.3480840
63	.0093928	.0184520	.0338834	.0583574	.0945761	.1446991	.2096589	.2886349
64	.0058988	.0120696	.0230566	.0412599	.0693879	.1100065	.1649803	.2345331
65	.0036133	.0077029	.0153139	.0284869	.0497393	.0817663	.1269315	.1866304
66	.0021585	.0047958	.0099261	.0192019	.0348265	.0593985	.0955440	.1463605
67	.0012574	.0029125	.0062777	.0126339	.0238183	.0421579	.0703077	.1107904
68	.0007142	.0017251	.0038734	.0081122	.0158954	.0292884	.0505608	.0823895
69	.0003956	.0009964	.0023313	.0050825	.0103569	.0197837	.0355821	.0601109
70	.0002136	.0005612	.0013685	.0031066	.0065856	.0130743	.0243744	.0427824
71	.0001124	.0003082	.0007834	.0018523	.0040859	.0084334	.0163308	.0297448
72	.0000577	.0001650	.0004373	.0010771	.0024731	.0053086	.0106811	.0201961
73	.0000288	.0000861	.0002380	.0006109	.0014602	.0032603	.0068198	.0133883
74	.0000141	.0000438	.0001263	.0003378	.0008408	.0019533	.0042470	.0086432
75	.0000067	.0000217	.0000653	.0001821	.0004721	.0011415	.0025809	.0054704
76	.0000031	.0000105	.0000329	.0000957	.0002585	.0006505	.0015299	.0033706
77	.0000014	.0000049	.0000162	.0000490	.0001380	.0003615	.0008844	.0020858
78	.0000006	.0000023	.0000078	.0000245	.0000718	.0001958	.0004986	.0011875
79	.0000003	.0000010	.0000036	.0000119	.0000364	.0001034	.0002740	.0006708
80	.0000001	.0000004	.0000016	.0000057	.0000180	.0000532	.0001468	.0003703
81		.0000002	.0000007	.0000026	.0000087	.0000267	.0000767	.0002056
82		.0000001	.0000003	.0000012	.0000041	.0000131	.0000390	.0001088
83			.0000001	.0000005	.0000019	.0000068	.0000193	.0000568
84			.0000001	.0000002	.0000008	.0000029	.0000093	.0000288
85				.0000001	.0000004	.0000013	.0000044	.0000138
86					.0000002	.0000006	.0000020	.0000066
87					.0000001	.0000002	.0000009	.0000031
88						.0000001	.0000004	.0000014
89							.0000002	.0000006
90							.0000001	.0000023
91								.0000001

r/p	.41	.42	.43	.44	.45	.46	.4	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999988	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
35	.9999970	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
36	.9999930	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000
37	.9999844	.9999947	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000
38	.9999662	.9999880	.9999960	.9999987	.9999996	.9999999	1.0000000	1.0000000
39	.9999292	.9999739	.9999909	.9999970	.9999990	.9999997	.9999999	1.0000000
40	.9998568	.9999452	.9999801	.9999931	.9999978	.9999993	.9999998	.9999999
41	.9997196	.9998884	.9999578	.9999849	.9999949	.9999983	.9999995	.9999998
42	.9994685	.9997801	.9999136	.9999672	.9999886	.9999962	.9999988	.9999996
43	.9990240	.9995804	.9998287	.9999336	.9999756	.9999915	.9999978	.9999991
44	.9982626	.9992338	.9996708	.9998675	.9999494	.9999817	.9999937	.9999980
45	.9969998	.9986076	.9993864	.9997434	.9998982	.9999617	.9999863	.9999934
46	.9949718	.9975764	.9988907	.9995181	.9998014	.9999224	.9999713	.9999899
47	.9918162	.9959044	.9980534	.9991217	.9996340	.9998474	.9999413	.9999786
48	.9870571	.9932768	.9966825	.9984458	.9993090	.9997087	.9998853	.9999559

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

r/p	.41	.42	.43	.44	.45	.46	.47	.48
49	.9800904	.9893730	.9945064	.9973803	.9987668	.9994601	.9997759	.9999119
50	.9703896	.9833561	.9911568	.9955365	.9978615	.9990020	.9995011	.9998090
51	.9566500	.9748725	.9861520	.9927486	.9963948	.9983991	.9992391	.9996775
52	.9385186	.9630677	.9788980	.9885401	.9940888	.9971060	.9986562	.9994086
53	.9159141	.9471219	.9686900	.9823715	.9905694	.9952108	.9976920	.9989488
54	.8854287	.9262066	.9547413	.9735925	.9853538	.9923849	.9961438	.9981710
55	.8498594	.8995616	.9362898	.9614574	.9778463	.9879010	.9937270	.9969151
56	.8063022	.8665854	.9123614	.9451616	.9673484	.9815186	.9900649	.9949385
57	.7567271	.8269285	.8824592	.9238985	.9530641	.9724094	.9846718	.9919888
58	.7011329	.7805763	.8460502	.8969330	.9348470	.9600781	.9769525	.9875644
59	.6404977	.7279178	.8029563	.8636911	.9100659	.9434830	.9662185	.9808059
60	.5762385	.6697476	.7533656	.8238491	.8798861	.9219886	.9516837	.9713711
61	.5099886	.6078651	.6978734	.7774148	.8433587	.8944794	.9385786	.9589868
62	.4435790	.5419922	.6374814	.7247807	.8000965	.8611008	.9081836	.9420888
63	.3788214	.4756666	.5735521	.6667504	.7503910	.8211811	.8777000	.9208779
64	.3173915	.4101033	.5077179	.6045094	.6949556	.7746451	.8408710	.8927958
65	.2606457	.3470481	.4417574	.5395591	.6347161	.7219959	.7974949	.8591086
66	.2097804	.2880404	.3774526	.4736097	.5710232	.6640367	.7477854	.8189107
67	.1652850	.2343046	.3164468	.4084454	.5054860	.6019469	.6923490	.7728543
68	.1274480	.1866808	.2601314	.3457820	.4398608	.5378143	.6321823	.7195449
69	.0961169	.1456016	.2095070	.2871338	.3759025	.4718897	.5686267	.6618008
70	.0706708	.1111124	.1652372	.2337069	.3153300	.4066560	.5033810	.5993615
71	.0510845	.0829264	.1275468	.1863315	.2592078	.3443880	.4378824	.5349443
72	.0359735	.0605035	.0963104	.1454379	.2080517	.2859217	.3741697	.4694171
73	.0247433	.0431386	.0711097	.1110760	.1647901	.2327495	.3137461	.4047300
74	.0134186	.0300473	.0513174	.0829678	.1278502	.1855933	.2579609	.3425649
75	.0108963	.0204393	.0361846	.0605044	.0961353	.1440803	.2078224	.2844063
76	.0069788	.0135745	.0249208	.0432319	.0710107	.1106613	.1639529	.2314378
77	.0043540	.0087997	.0167590	.0301360	.0513656	.0826685	.1265853	.1844788
78	.0026523	.0055666	.0110016	.0205145	.0361555	.0603603	.0955998	.1439360
79	.0015750	.0034355	.0070401	.0136332	.0249092	.0433678	.0705881	.1098755
80	.0009130	.0020681	.0044055	.0088424	.0167531	.0300142	.0509347	.0820169
81	.0005150	.0012141	.0026860	.0055958	.0109974	.0204239	.0359027	.0598371
82	.0002840	.0006949	.0015970	.0034543	.0070440	.0135655	.0247118	.0426494
83	.0001524	.0003877	.0009258	.0020794	.0044011	.0087920	.0166033	.0296861
84	.0000797	.0002100	.0005231	.0012305	.0026817	.0055564	.0108853	.0201708
85	.0000406	.0001117	.0002881	.0006982	.0015931	.0034270	.0069617	.0133748
86	.0000202	.0000577	.0001546	.0003893	.0009224	.0020599	.0043418	.0086504
87	.0000097	.0000290	.0000808	.0002114	.0005205	.0012068	.0026399	.0054561
88	.0000046	.0000142	.0000411	.0001119	.0002861	.0006889	.0015644	.0033548
89	.0000021	.0000068	.0000204	.0000576	.0001532	.0003831	.0009032	.0020103
90	.0000009	.0000031	.0000098	.0000292	.0000798	.0002075	.0005080	.0011736
91	.0000004	.0000014	.0000046	.0000141	.0000405	.0001094	.0002782	.0006673
92	.0000003	.0000006	.0000021	.0000067	.0000200	.0000561	.0001483	.0003694
93	.0000001	.0000003	.0000009	.0000031	.0000096	.0000280	.0000769	.0001991
94		.0000001	.0000004	.0000014	.0000045	.0000136	.0000388	.0001044
95			.0000002	.0000006	.0000020	.0000064	.0000191	.0000538
96			.0000001	.0000003	.0000009	.0000030	.0000091	.0000264
97				.0000001	.0000004	.0000013	.0000042	.0000127
98					.0000002	.0000006	.0000019	.0000060
99					.0000001	.0000002	.0000008	.0000027
100						.0000001	.0000004	.0000018
101							.0000001	.0000005
102							.0000001	.0000002
103								.0000001

r/p	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 148

c	.49	.50
39	1.0000000	1.0000000
40	1.0000000	1.0000000
41	1.0000000	1.0000000
42	.9999999	1.0000000
43	.9999997	.9999999
44	.9999994	.9999998
45	.9999985	.9999996
46	.9999967	.9999990
47	.9999926	.9999976
48	.9999842	.9999947
49	.9999679	.9999885
50	.9999339	.9999759
51	.9998706	.9999509
52	.9997536	.9999028
53	.9995439	.9998133
54	.9991790	.9996510
55	.9985083	.9993656
56	.9975495	.9988778
57	.9959336	.9980677
58	.9934278	.9967602
59	.9896503	.9947087
60	.9841141	.9915793
61	.9762241	.9869374
62	.9652681	.9802408
63	.9505443	.9708440
64	.9312071	.9580167
65	.9065320	.9409804
66	.8758947	.9189642
67	.8388768	.8912772
68	.7953481	.8573917
69	.7455311	.8170280
70	.6900373	.7702295
71	.6298646	.7174140
72	.5663517	.6593315
73	.5010910	.5973395
74	.4358146	.5338775
75	.3723496	.4672625
76	.3119916	.4086605
77	.2563081	.3406085
78	.2064287	.2805500
79	.1627302	.2297705
80	.1255336	.1829780
81	.0947096	.1426083
82	.0698475	.1087228
83	.0503299	.0810358
84	.0354186	.0590106
85	.0243385	.0419833
86	.0163187	.0291560
87	.0106681	.0197592
88	.0068013	.0130626
89	.0042293	.0084307
90	.0025621	.0052913
91	.0015130	.0032398
92	.0008690	.0019323
93	.0004862	.0011282
94	.0002647	.0006344
95	.0001403	.0003490
96	.0000723	.0001867
97	.0000362	.0000972
98	.0000174	.0000491
99	.0000083	.0000241
100	.0000038	.0000115
101	.0000017	.0000053
102	.0000007	.0000024
103	.0000003	.0000010
104	.0000001	.0000004
105		.0000002
106		.0000001

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 149

x	.01	.02	.03	.04	.05	.06	.07	.08
1	.7763113	.9507193	.9893097	.9977175	.9995205	.9999009	.9999799	.9999960
2	.4396406	.8000619	.9400464	.9835469	.9957592	.9989585	.9997540	.9999439
3	.1880017	.5745401	.8272992	.9388541	.9911196	.9984969	.9996086	.9999086
4	.0634492	.3488342	.6564351	.8506481	.9433416	.9905838	.9990573	.9998800
5	.0175283	.1796535	.4635583	.7149007	.8707795	.9681461	.9961187	.9994458
6	.0040767	.0798018	.2905544	.5510492	.7600269	.8881017	.9532938	.9988117
7	.0008157	.0310132	.1621435	.3871177	.6401888	.7961189	.9030404	.9954993
8	.0001488	.0106396	.0810181	.2475807	.4697183	.6761778	.8257689	.9159600
9	.0000248	.0033574	.0364734	.1443015	.3291918	.5402870	.7285735	.8505331
10	.0000031	.0008998	.0148928	.0770154	.2133230	.4043963	.6007951	.7614009
11	.0000004	.0002256	.0055487	.0377185	.1279468	.2839630	.4725106	.6588181
12		.0000517	.0019268	.0170800	.0711650	.1850160	.3505000	.5533610
13		.0000109	.0006900	.0071139	.0367973	.1131194	.2448869	.4614306
14		.0000021	.0001746	.0027405	.0177350	.0647569	.1611380	.3856681
15		.0000004	.0000474	.0009985	.0079889	.0347692	.0998886	.3188794
16		.0000001	.0000120	.0003377	.0033783	.0175403	.0593639	.2406409
17			.0000029	.0001071	.0013374	.0083338	.0338065	.1886376
18			.0000006	.0000320	.0004995	.0037344	.0168033	.1523511
19			.0000001	.0000090	.0001760	.0015818	.0080318	.1294308
20				.0000024	.0000587	.0006344	.0036889	.0157491
21				.0000006	.0000185	.0002414	.0017303	.0080159
22				.0000001	.0000056	.0000978	.0007388	.0038551
23					.0000016	.0000390	.0002951	.0017953
24					.0000004	.0000134	.0001134	.0007918
25					.0000001	.0000051	.0000416	.0003337
26						.0000009	.0000146	.0001345
27						.0000003	.0000049	.0000519
28						.0000001	.0000016	.0000193
29							.0000005	.0000068
30							.0000001	.0000083
31								.0000008
32								.0000008
33								.0000001

x	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999999	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999976	.9999973	.9999994	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999885	.9999766	.9999946	.9999988	.9999997	.9999999	1.0000000	1.0000000
4	.9994900	.9998639	.9999658	.9999915	.9999980	.9999995	.9999999	1.0000000
5	.9986011	.9994067	.9998320	.9999550	.9999884	.9999971	.9999993	.9999998
6	.9937306	.9979337	.9993581	.9998109	.9999469	.9999858	.9999963	.9999991
7	.9815940	.9940054	.9979499	.9993593	.9997988	.9999413	.9999837	.9999957
8	.9531140	.9850890	.9943946	.9980854	.9993448	.9997736	.9999388	.9999824
9	.9071616	.9678039	.9866548	.9948451	.9981309	.9992660	.9997958	.9999374
10	.8414560	.9368937	.9714017	.9868510	.9953308	.9982018	.9994018	.9998030
11	.7643887	.8892752	.9453584	.9750003	.9894333	.9957273	.9984286	.9994449
12	.6879367	.8224184	.9045434	.9537301	.9778877	.9900937	.9962585	.9988038
13	.6203895	.7469903	.8465311	.9171009	.9591534	.9811393	.9918541	.9976955
14	.5740185	.6765591	.7709590	.8671330	.9320199	.9677482	.9836637	.9953040
15	.5643321	.6280888	.6883474	.8065919	.8959806	.9508274	.9696237	.9895905
16	.6065102	.6310196	.6093317	.7387069	.8564589	.9290504	.9473203	.9730647
17	.7055675	.7305463	.6748726	.6681904	.8152844	.9049736	.9143336	.9546863
18	.8239176	.8332077	.7738655	.6034229	.7666937	.8703308	.8688601	.9261030
19	.9275137	.9200428	.8693160	.5456554	.7124954	.8244084	.8099732	.8861790
20	.9865393	.9775248	.9343013	.5011548	.6617483	.7716504	.7383845	.8337464
21	.9966272	.9881506	.9716266	.4807134	.6209879	.7225551	.6561392	.7688899
22	.9995988	.9972762	.9940421	.4792600	.5943770	.6790603	.5670775	.6930731
23	.9999680	.9993039	.9990241	.4938139	.5819788	.6405068	.4755737	.6088669
24	.9999973	.9999418	.9999364	.5232988	.5826955	.6109075	.3864394	.5301618
25	.9999994	.9999960	.9999931	.5674834	.5962133	.5938773	.3038591	.4616276
26	.9999999	.9999997	.9999993	.6241151	.6217998	.5875041	.2309941	.4033093
27	1.0000000	1.0000000	.9999999	.6900076	.6588500	.5908131	.1696664	.3547125
28	1.0000000	1.0000000	1.0000000	.7607029	.7031856	.6026309	.1203681	.3148476
29	1.0000000	1.0000000	1.0000000	.8295261	.7516840	.6220168	.0824604	.2829868
30	1.0000000	1.0000000	1.0000000	.8907901	.8030545	.6466566	.0545486	.2582469
31	1.0000000	1.0000000	1.0000000	.9403634	.8551416	.6746546	.0348462	.2397455
32	1.0000000	1.0000000	1.0000000	.9761610	.9057497	.7035436	.0214994	.2264231
33	1.0000000	1.0000000	1.0000000	.9970607	.9530515	.7314161	.0126143	.2173698
34	1.0000000	1.0000000	1.0000000	.9999283	.9961589	.7569985	.0073601	.2118647
35	1.0000000	1.0000000	1.0000000	.9999994	.9999996	.7795336	.0041084	.2111544
36		1.0000000	1.0000000	1.0000000	.9999999	.7987530	.0022113	.2064449
37		1.0000000	1.0000000	1.0000000	1.0000000	.8147680	.0011518	.2036030
38		1.0000000	1.0000000	1.0000000	1.0000000	.8278799	.0005799	.2019498
39			1.0000000	1.0000000	1.0000000	.8384132	.0002837	.2010217
40			1.0000000	1.0000000	1.0000000	.8466651	.0001354	.2005185
41				1.0000000	1.0000000	.8530284	.0000610	.2002550
42				1.0000000	1.0000000	.8578119	.0000270	.2001315
43					1.0000000	.8613020	.0000116	.2000561
44					1.0000000	.8637948	.0000048	.2000231
45					1.0000000	.8655019	.0000019	.2000100
46						.8666061	.0000008	.2000044
47						1.0000000	.0000003	.2000019
48							.0000001	.2000007
49								.2000003
50								.2000001

x	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 140

x	.17	.18	.19	.20	.21	.22	.23	.24
7	.9922909	.9949997	.9969999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9966955	.9986889	.9993997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9988817	.9996940	.9998986	.9999996	1.0000000	1.0000000	1.0000000	1.0000000
10	.9996383	.9999816	.9999949	.9999986	.9999999	1.0000000	1.0000000	1.0000000
11	.9998141	.9999908	.9999980	.9999998	.9999999	.9999999	.9999999	1.0000000
12	.9999004	.9999975	.9999995	.9999999	.9999999	.9999999	.9999999	.9999999
13	.9999487	.9999917	.9999994	.9999999	.9999999	.9999999	.9999999	.9999999
14	.9999744	.9999964	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
15	.9999873	.9999986	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
16	.9999938	.9999995	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
17	.9999969	.9999998	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
18	.9999985	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
19	.9999993	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
20	.9999997	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
21	.9999998	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
22	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
23	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
24	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
25	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
26	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
27	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
28	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
29	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
30	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
31	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
32	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
33	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
34	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
35	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
36	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
37	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
38	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
39	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
40	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
41	.0000001	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
42	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
43	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
44	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
45	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
46	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
47	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
48	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
49	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
50	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
51	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
52	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
53		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
54		.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
55			.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
56			.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
57				.0000000	.0000000	.0000000	.0000000	.0000000
58				.0000000	.0000000	.0000000	.0000000	.0000000
59					.0000000	.0000000	.0000000	.0000000
60					.0000000	.0000000	.0000000	.0000000
61						.0000000	.0000000	.0000000
62						.0000000	.0000000	.0000000
63							.0000000	.0000000
64							.0000000	.0000000
65								.0000000

x	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999993	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999999	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999999	.9999999	.9999999	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
18	.9999999	.9999999	.9999999	.9999999	.9999999	1.0000000	1.0000000	1.0000000
19	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	1.0000000	1.0000000
20	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	1.0000000
21	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
22	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
23	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
24	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
25	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
26	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
27	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
28	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
29	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
30	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
31	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
32	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
33	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
34	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
35	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
36	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
37	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
38	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
39	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
40	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999

$$P(c;n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 149

c \ p	.05	.06	.07	.08	.09	.10	.11	.12
35	.3944382	.7041833	.8552041	.9000115	.9445335	.9688730	.9887789	.9911269
36	.6884848	.7848000	.8974977	.9387887	.9800706	.9938675	.9980604	.9988371
37	.5508404	.8575249	.9519398	.9749786	.9938595	.9987014	.9996347	.9997873
38	.4248616	.9089853	.9809561	.9899734	.9984544	.9998078	.9999459	.9999536
39	.3102053	.9419940	.9930965	.9963138	.9997191	.9999791	.9999959	.9999986
40	.2080468	.9578038	.9980194	.9989043	.9999543	.9999966	.9999998	.9999999
41	.1196132	.9633006	.9994046	.9996386	.9999893	.9999996	.9999999	.9999999
42	.0509701	.9633849	.9998160	.9999511	.9999987	.9999999	.9999999	.9999999
43	.0201503	.9589421	.9999679	.9999878	.9999998	.9999999	.9999999	.9999999
44	.0119734	.9510848	.9999933	.9999969	.9999999	.9999999	.9999999	.9999999
45	.0069089	.9414178	.9999984	.9999992	.9999999	.9999999	.9999999	.9999999
46	.0036455	.9307656	.9999996	.9999998	.9999999	.9999999	.9999999	.9999999
47	.0018460	.9186809	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
48	.0008939	.9053338	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
49	.0007112	.8864936	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
50	.0004911	.8625746	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
51	.0003943	.8358561	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
52	.0004658	.8100466	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
53	.0006851	.7861996	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
54	.0015086	.7637861	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
55	.0008373	.7401810	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
56	.0004543	.7132433	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
57	.0002400	.6806903	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
58	.0001238	.6451733	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
59	.0000619	.6091966	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
60	.0000308	.5741009	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
61	.0000143	.5400504	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
62	.0000064	.5080845	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
63	.0000030	.4780116	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
64	.0000013	.4500554	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
65	.0000006	.4240084	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
66	.0000002	.3998011	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
67	.0000001	.3773905	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
68		.3566902	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
69		.3376001	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
70		.3200001	.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
71			.9999999	.9999999	.9999999	.9999999	.9999999	.9999999
72				.9999999	.9999999	.9999999	.9999999	.9999999
73					.9999999	.9999999	.9999999	.9999999
74						.9999999	.9999999	.9999999
75							.9999999	.9999999
76								.9999999
77								
78								
79								

c \ p	.13	.14	.15	.16	.17	.18	.19	.20
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999974	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999933	.9999979	.9999994	.9999998	.9999999	1.0000000	1.0000000	1.0000000
27	.9999838	.9999946	.9999983	.9999995	.9999999	1.0000000	1.0000000	1.0000000
28	.9999624	.9999876	.9999957	.9999988	.9999998	1.0000000	1.0000000	1.0000000
29	.9999165	.9999698	.9999896	.9999969	.9999997	.9999999	1.0000000	1.0000000
30	.9998221	.9999329	.9999759	.9999918	.9999993	.9999998	.9999999	1.0000000
31	.9996342	.9998569	.9999464	.9999809	.9999975	.9999994	.9999999	.9999999
32	.9992844	.9997065	.9998858	.9999575	.9999950	.9999986	.9999998	.9999999
33	.9986464	.9994009	.9997844	.9999089	.9999865	.9999963	.9999997	.9999999
34	.9975317	.9988993	.9995334	.9998130	.9999780	.9999908	.9999999	.9999999
35	.9956586	.9979822	.9991089	.9996260	.9999508	.9999834	.9999979	.9999999
36	.9926278	.9964302	.9983579	.9992823	.9999019	.9999881	.9999958	.9999993
37	.9874941	.9938984	.9970774	.9984700	.9998249	.9999637	.9999917	.9999988
38	.9787877	.9891130	.9947716	.9968183	.9996280	.9999156	.9999838	.9999981
39	.9704424	.9838670	.9916296	.9938742	.9990460	.9998167	.9999667	.9999961
40	.9559989	.9749993	.9865078	.9890824	.9964304	.9994407	.9999145	.9999930
41	.9363850	.9624367	.9794316	.9807437	.9943687	.9992613	.9998481	.9999864
42	.9107150	.9452317	.9660666	.9623055	.9906835	.9953395	.9997858	.9999803
43	.8783034	.9234406	.9483340	.9329641	.9852088	.9883107	.9996023	.9999184
44	.8383547	.8953250	.9238918	.8939889	.9773080	.9767914	.9993840	.9998913
45	.7910750	.8569670	.8867633	.8481704	.9658878	.9608704	.9988053	.9998361
46	.7367381	.8133843	.8339352	.7891180	.9503751	.9411165	.9980109	.9997578
47	.6762297	.7648438	.7739706	.7209403	.9297770	.9176002	.9967549	.9996171

$$P(c,n,p) = \sum_{x=c}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 149

x	.33	.34	.35	.36	.37	.38	.39	.40
48	.6109174	.7053178	.7868110	.8528829	.9032660	.9394454	.9639360	.9795771
49	.5425589	.6425851	.7328496	.8091050	.8701798	.9158003	.9480148	.9694677
50	.4731593	.5759789	.6729583	.7547792	.8301270	.8859287	.9270327	.9555759
51	.4047956	.5073421	.6084660	.7019376	.7830808	.8493119	.9002035	.9370535
52	.3394328	.4387113	.5410433	.6398716	.7294456	.8057469	.8669063	.9130834
53	.2787603	.3720802	.4726292	.5740757	.6700800	.7554255	.8267059	.8829670
54	.2240479	.3092588	.4052081	.5063401	.6062697	.6989786	.7798403	.8462213
55	.1761780	.2517254	.3406683	.4386044	.5396458	.6374739	.7264013	.8026708
56	.1354359	.2005317	.2806417	.3727931	.4720605	.5723616	.6675557	.7525818
57	.1017519	.1562636	.2263869	.3106543	.4054331	.5053740	.6043177	.6964036
58	.0746831	.1190559	.1787218	.2536255	.3415887	.4383865	.5383516	.6353607
59	.0535351	.0886520	.1380104	.2027421	.2821125	.3732618	.4714532	.5708106
60	.0374695	.0644944	.1041993	.1585965	.2282367	.3116978	.4054843	.5044371
61	.0256001	.0458872	.0768903	.1213486	.1807746	.2550986	.3422109	.4380636
62	.0170705	.0317967	.0554357	.0907794	.1401052	.2044856	.2832042	.3735036
63	.0111076	.0215378	.0390387	.0663733	.1062037	.1604559	.2296508	.3124145
64	.0070518	.0142396	.0268460	.0474150	.0787083	.1231897	.1823604	.2561736
65	.0043675	.0091876	.0180239	.0330852	.0570093	.0924976	.1417471	.2057915
66	.0026386	.0057842	.0118119	.0225445	.0403443	.0678983	.1077851	.1618584
67	.0015548	.0035528	.0075547	.0149984	.0278676	.0487093	.0801499	.1246004
68	.0008935	.0021289	.0047149	.0097400	.0188247	.0341398	.0582621	.0938218
69	.0005007	.0012442	.0028710	.0061732	.0124062	.0233716	.0413872	.0690763
70	.0002736	.0007092	.0017055	.0038179	.0079910	.0156239	.0287220	.0497138
71	.0001458	.0003942	.0009882	.0023038	.0050108	.0101970	.0194678	.0349598
72	.0000757	.0002137	.0005585	.0013562	.0030699	.0064960	.0128845	.0240156
73	.0000384	.0001130	.0003078	.0007787	.0018350	.0040305	.0083248	.0161114
74	.0000189	.0000582	.0001654	.0004361	.0010700	.0024500	.0052498	.0105513
75	.0000091	.0000292	.0000867	.0002382	.0006085	.0014500	.0032307	.0067477
76	.0000043	.0000143	.0000443	.0001268	.0003375	.0008371	.0019398	.0042106
77	.0000020	.0000068	.0000221	.0000658	.0001826	.0004713	.0011362	.0025637
78	.0000009	.0000032	.0000107	.0000333	.0000963	.0002588	.0006491	.0015228
79	.0000004	.0000014	.0000051	.0000164	.0000495	.0001385	.0003616	.0008823
80	.0000002	.0000006	.0000023	.0000079	.0000248	.0000723	.0001964	.0004985
81	.0000001	.0000003	.0000010	.0000037	.0000121	.0000368	.0001040	.0002747
82		.0000001	.0000005	.0000017	.0000058	.0000182	.0000537	.0001475
83			.0000002	.0000008	.0000027	.0000088	.0000270	.0000772
84			.0000001	.0000003	.0000012	.0000041	.0000132	.0000394
85				.0000001	.0000005	.0000019	.0000063	.0000196
86				.0000001	.0000002	.0000008	.0000029	.0000095
87					.0000001	.0000004	.0000013	.0000045
88						.0000002	.0000006	.0000021
89						.0000001	.0000003	.0000009
90							.0000001	.0000004
91								.0000002
92								.0000001

x	.41	.42	.43	.44	.45	.46	.47	.48
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
27	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
28	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
29	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
30	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
31	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
32	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
33	.9999996	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
34	.9999991	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
35	.9999977	.9999993	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
36	.9999947	.9999983	.9999995	.9999998	1.0000000	1.0000000	1.0000000	1.0000000
37	.9999879	.9999960	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
38	.9999736	.9999908	.9999970	.9999990	.9999997	.9999999	1.0000000	1.0000000
39	.9999444	.9999799	.9999931	.9999977	.9999993	.9999998	.9999999	1.0000000
40	.9998865	.9999573	.9999847	.9999948	.9999985	.9999995	.9999999	1.0000000
41	.9997759	.9999123	.9999674	.9999885	.9999962	.9999988	.9999996	.9999999
42	.9995715	.9998356	.9999326	.9999753	.9999914	.9999972	.9999991	.9999997
43	.9992043	.9996643	.9998652	.9999487	.9999815	.9999937	.9999979	.9999994
44	.9985748	.9993736	.9997387	.9998966	.9999612	.9999862	.9999954	.9999985
45	.9975175	.9988664	.9995087	.9997980	.9999212	.9999709	.9999898	.9999966
46	.9958033	.9980096	.9991039	.9996172	.9998449	.9999405	.9999783	.9999935
47	.9931100	.9966067	.9984134	.9992961	.9997038	.9998819	.9999584	.9999840

$$B(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 149$$

n	.41	.42	.43	.44	.45	.46	.47	.48
48	.9890083	.9943804	.9972720	.9987432	.9994508	.9997725	.9999107	.9999668
49	.9829515	.9909546	.9954421	.9978200	.9990108	.9995745	.9998265	.9999331
50	.9742758	.9856412	.9925968	.9963249	.9982689	.9992260	.9996727	.9998688
51	.9622181	.9784356	.9883038	.9939754	.9970548	.9986344	.9993998	.9997508
52	.9469528	.9680257	.9820172	.9903919	.9951261	.9976548	.9989302	.9995377
53	.9286509	.9538191	.9730794	.9850857	.9921532	.9960822	.9981452	.9991679
54	.9075387	.9349910	.9607392	.9774552	.9877008	.9936305	.9968711	.9985433
55	.8840888	.9107525	.9441894	.9667968	.9812247	.9899176	.9948626	.9975183
56	.8219147	.8804354	.9226246	.9523319	.9720725	.9844545	.9917861	.9956940
57	.7770529	.8435844	.8953171	.9332544	.9595030	.9766428	.9872066	.9933118
58	.7239206	.8000454	.8617061	.9087978	.9427237	.9657857	.9805806	.9895590
59	.6653540	.7503351	.8214867	.8783175	.9209474	.9511153	.9712602	.9839540
60	.6025812	.6941790	.7746896	.8413796	.8934670	.9318404	.9505121	.9760038
61	.5371496	.6335078	.7217350	.7978455	.8597410	.9072113	.9415548	.9649959
62	.4700069	.5694068	.6631500	.7479394	.8194810	.8766006	.9196146	.9501706
63	.4053720	.5035234	.6010417	.6922837	.7727274	.8395899	.8919991	.9307468
64	.3425778	.4376399	.5360266	.6310954	.7199019	.7960517	.8581806	.9059869
65	.2839410	.3735312	.4701204	.5661372	.6618239	.7462145	.8178817	.8752751
66	.2306557	.3128236	.4051037	.5026275	.5996845	.6906979	.7711489	.8382028
67	.1835281	.2568736	.3426793	.4371177	.5349773	.6305082	.7184041	.7946494
68	.1429577	.2066828	.2843413	.3733539	.4693921	.5669913	.6604607	.7448454
69	.1089602	.1628549	.2312712	.3129390	.4046838	.5017446	.5984978	.6894076
70	.0813261	.1255979	.1842732	.2572148	.3425331	.4364979	.5339935	.6293344
71	.0591999	.0947645	.1437537	.2071767	.2844181	.3729773	.4686198	.5659606
72	.0421690	.0699211	.1097420	.1634311	.2315120	.3127702	.4041147	.5008702
73	.0293477	.0504319	.0819460	.1261953	.1846179	.2572087	.3421452	.4357798
74	.0199427	.0355457	.0598281	.0953354	.1441476	.2072852	.2841799	.3724041
75	.0132425	.0244747	.0426917	.0704331	.1101406	.1636083	.2313075	.3123224
76	.0085815	.0164577	.0297642	.0508670	.0823168	.1264021	.1845716	.2568624
77	.0054277	.0108051	.0202665	.0358982	.0601509	.0955420	.1441481	.2070157
78	.0033500	.0069245	.0134773	.0247479	.0429572	.0706193	.1101630	.1633936
79	.0020172	.0043306	.0087481	.0166609	.0299719	.0510220	.0823436	.1262845
80	.0011848	.0026424	.0055418	.0109503	.0204233	.0360186	.0601718	.0953890
81	.0006787	.0015728	.0034253	.0070243	.0135875	.0248354	.0429678	.0704834
82	.0003720	.0009129	.0020653	.0043965	.0088231	.0167204	.0299715	.0508995
83	.0002064	.0005167	.0012144	.0026844	.0055904	.0109878	.0204143	.0359085
84	.0001095	.0002851	.0006963	.0015984	.0034554	.0070459	.0135727	.0247381
85	.0000566	.0001533	.0003892	.0009280	.0020829	.0044075	.0080050	.0166366
86	.0000285	.0000803	.0002120	.0005252	.0012842	.0026888	.0055732	.0109178
87	.0000140	.0000410	.0001125	.0002897	.0007013	.0015992	.0034398	.0069894
88	.0000067	.0000204	.0000582	.0001557	.0003916	.0009271	.0020699	.0043634
89	.0000031	.0000099	.0000293	.0000815	.0002130	.0005238	.0012140	.0026557
90	.0000014	.0000047	.0000144	.0000416	.0001128	.0002882	.0006937	.0015752
91	.0000006	.0000021	.0000069	.0000206	.0000582	.0001545	.0003862	.0009103
92	.0000003	.0000010	.0000032	.0000100	.0000292	.0000806	.0002093	.0005124
93	.0000001	.0000004	.0000014	.0000047	.0000143	.0000410	.0001105	.0002808
94		.0000002	.0000005	.0000021	.0000068	.0000203	.0000567	.0001498
95		.0000001	.0000003	.0000010	.0000031	.0000097	.0000284	.0000778
96			.0000001	.0000004	.0000014	.0000046	.0000138	.0000383
97				.0000002	.0000006	.0000021	.0000065	.0000193
98				.0000001	.0000003	.0000009	.0000030	.0000092
99					.0000001	.0000004	.0000013	.0000043
100						.0000002	.0000006	.0000019
101						.0000001	.0000002	.0000008
102							.0000001	.0000004
103								.0000001
104								.0000001

n	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 149

n	.49	.50
38	1.0000000	1.0000000
39	1.0000000	1.0000000
40	1.0000000	1.0000000
41	1.0000000	1.0000000
42	.9999999	1.0000000
43	.9999998	.9999999
44	.9999996	.9999999
45	.9999989	.9999997
46	.9999976	.9999993
47	.9999946	.9999983
48	.9999883	.9999961
49	.9999756	.9999916
50	.9999502	.9999832
51	.9999016	.9999634
52	.9998109	.9999269
53	.9996466	.9998581
54	.9993578	.9997322
55	.9988645	.9995083
56	.9980458	.9991217
57	.9967254	.9984728
58	.9946556	.9974139
59	.9915013	.9957344
60	.9868269	.9931440
61	.9800902	.9892583
62	.9706467	.9835891
63	.9577688	.9755424
64	.9406823	.9644304
65	.9186220	.9494985
66	.8909069	.9299723
67	.8570156	.9051207
68	.8166772	.8743344
69	.7695414	.8372098
70	.7172293	.7936287
71	.6593492	.7438218
72	.5974730	.6884078
73	.5330692	.6280655
74	.4678005	.5650385
75	.4033964	.5000009
76	.3415180	.4349615
77	.2836308	.3716345
78	.2309028	.3115972
79	.1841395	.2561782
80	.1437599	.2063713
81	.1098133	.1627902
82	.0820299	.1256656
83	.0598935	.0948793
84	.0427251	.0700277
85	.0299647	.0505015
86	.0202424	.0355696
87	.0134340	.0244576
88	.0086971	.0164109
89	.0054906	.0107417
90	.0033790	.0068560
91	.0020266	.0042656
92	.0011841	.0025861
93	.0006738	.0015272
94	.0003733	.0008783
95	.0002013	.0004917
96	.0001056	.0002678
97	.0000539	.0001419
98	.0000267	.0000731
99	.0000129	.0000366
100	.0000060	.0000178
101	.0000027	.0000084
102	.0000012	.0000039
103	.0000005	.0000017
104	.0000002	.0000007
105	.0000001	.0000003
106		.0000001
107		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 150

r	.01	.02	.03	.04	.05	.06	.07	.08
1	.7785482	.9517040	.9896304	.9978088	.9995444	.9999069	.9999813	.9999963
2	.4430152	.8038590	.9415243	.9841137	.9959480	.9990150	.9997699	.9999480
3	.1905161	.5790743	.8306817	.9416018	.9818459	.9947740	.9985843	.9996354
4	.0646947	.3527605	.6615610	.8542164	.9452302	.9814193	.9941880	.9932943
5	.0179875	.1830251	.4693388	.7204074	.8744076	.9500923	.9820048	.9940085
6	.0042112	.0818767	.2957443	.5576064	.7655645	.8917044	.9552411	.9831864
7	.0008483	.0319906	.1659958	.3936749	.6271237	.8016379	.9065581	.9602582
8	.0001496	.0110471	.0834460	.2531622	.4773329	.6833742	.8311779	.9193811
9	.0000234	.0034070	.0378096	.1485095	.3362172	.5484405	.7297591	.8557673
10	.0000033	.0009470	.0155402	.0797100	.2191165	.4125497	.6093167	.7685315
11	.0000004	.0002391	.0058290	.0392903	.1328154	.2998460	.4814923	.6615728
12		.0000552	.0020064	.0178556	.0740041	.1908927	.3598409	.5431995
13		.0000117	.0006369	.0075104	.0385157	.1174332	.2532799	.4235685
14		.0000023	.0001873	.0029347	.0186881	.0676587	.1669770	.3139091
15		.0000004	.0000512	.0010690	.0084762	.0365685	.1041464	.2202860
16		.0000001	.0000131	.0003641	.0036031	.0185759	.0612685	.1464194
17			.0000031	.0001163	.0014391	.0088857	.0340375	.0922458
18			.0000007	.0000350	.0005414	.0040103	.0178816	.0551140
19			.0000001	.0000099	.0001922	.0017109	.0088953	.0315564
20				.0000027	.0000646	.0006912	.0041978	.0168436
21				.0000007	.0000205	.0002649	.0018814	.0086345
22				.0000002	.0000062	.0000965	.0008080	.0042156
23					.0000018	.0000334	.0003257	.0019625
24					.0000005	.0000110	.0001261	.0008721
25					.0000001	.0000035	.0000466	.0003704
26						.0000010	.0000165	.0001505
27						.0000003	.0000056	.0000586
28						.0000001	.0000018	.0000218
29							.0000006	.0000078
30							.0000002	.0000027
31								.0000009
32								.0000003
33								.0000001

r	.09	.10	.11	.12	.13	.14	.15	.16
1	.9999993	.9999959	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	.9999886	.9999776	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
3	.9999101	.9999787	.9999951	.9999989	.9999998	1.0000000	1.0000000	1.0000000
4	.9995271	.9998752	.9999685	.9999923	.9999982	.9999996	.9999999	1.0000000
5	.9981351	.9994525	.9996474	.9999594	.9999897	.9999975	.9999994	.9999999
6	.9941149	.9980810	.9994103	.9998282	.9999523	.9999874	.9999968	.9999998
7	.9845063	.9943983	.9981048	.9993958	.9998175	.9999476	.9999856	.9999962
8	.9649572	.9859807	.9947857	.9981830	.9994032	.9998143	.9999451	.9999845
9	.9303973	.9692624	.9874527	.9952267	.9982965	.9994266	.9998171	.9999446
10	.8764685	.9399538	.9731531	.9888663	.9956873	.9984306	.9994609	.9998345
11	.8012646	.8940370	.9482331	.9766368	.9901900	.9961446	.9985746	.9995022
12	.7066024	.8291041	.9090330	.9554122	.9797353	.9914082	.9965840	.9987207
13	.5981569	.7455331	.8529124	.9218668	.9616400	.9824769	.9925149	.9969966
14	.4843028	.6469622	.7792814	.8733572	.9329371	.9670430	.9848923	.9935105
15	.3741129	.5397859	.6902269	.8085984	.8909667	.9424563	.9717289	.9870124
16	.2753052	.4318156	.5904324	.7285331	.8341057	.9061672	.9506674	.9757905
17	.1928523	.3305936	.4863631	.6364124	.7624167	.8563283	.9193074	.9577558
18	.1285743	.2419415	.3849763	.5373950	.6779798	.7923628	.8756857	.9306770
19	.0816018	.1691593	.2923864	.4376275	.5847541	.7154295	.8188063	.8925670
20	.0493270	.1129766	.2128630	.3431109	.4879753	.6284205	.7490718	.8421386
21	.0284193	.0720880	.1485209	.2586904	.3932545	.5356447	.6684670	.7798168
22	.0156186	.0439636	.0992764	.1874264	.3056364	.4421496	.5804118	.7050868
23	.0081952	.0256401	.0635881	.1304446	.2288676	.3529043	.4892948	.6221643
24	.0041094	.0143097	.0390403	.0872014	.1650278	.2720518	.3998095	.5343878
25	.0019710	.0076478	.0229855	.0559776	.1145492	.2024015	.3162461	.4457931
26	.0009052	.0039171	.0129846	.0345521	.0765336	.1452564	.2419238	.3600003
27	.0003984	.0019242	.0070419	.0204925	.0492235	.1005319	.1768576	.2809680
28	.0001682	.0009073	.0036687	.0116875	.0304820	.0670944	.1277638	.2148820
29	.0000681	.0004109	.0018373	.0064131	.0181799	.0431828	.0881465	.1579120
30	.0000265	.0001789	.0008851	.0033873	.0104467	.0268070	.0587354	.1128612
31	.0000099	.0000749	.0004104	.0017232	.0057860	.0160549	.0378016	.0771898
32	.0000036	.0000302	.0001832	.0008447	.0030902	.0092794	.0235014	.0513307
33	.0000012	.0000117	.0000789	.0003992	.0015921	.0051776	.0141170	.0330138
34	.0000004	.0000044	.0000327	.0001820	.0007917	.0027900	.0081958	.0205388
35	.0000001	.0000016	.0000131	.0000801	.0003802	.0014524	.0045991	.0123610
36		.0000006	.0000051	.0000340	.0001764	.0007308	.0024959	.0071987
37		.0000002	.0000019	.0000140	.0000791	.0003555	.0013102	.0040377
38		.0000001	.0000007	.0000055	.0000343	.0001673	.0006656	.0022143
39			.0000002	.0000021	.0000144	.0000762	.0003273	.0011708
40			.0000001	.0000008	.0000058	.0000336	.0001558	.0005990
41				.0000003	.0000023	.0000143	.0000719	.0002971
42				.0000001	.0000009	.0000059	.0000321	.0001428
43					.0000003	.0000024	.0000139	.0000666
44					.0000001	.0000009	.0000058	.0000301
45						.0000003	.0000024	.0000138
46						.0000001	.0000009	.0000056
47							.0000004	.0000023
48							.0000001	.0000009
49								.0000004
50								.0000001
51								.0000001

r	.17	.18	.19	.20	.21	.22	.23	.24
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 150

k	.17	.18	.19	.20	.21	.22	.23	.24
6	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	.9999990	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	.9999958	.9999989	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
9	.9999840	.9999956	.9999988	.9999997	.9999999	1.0000000	1.0000000	1.0000000
10	.9999457	.9999840	.9999955	.9999988	.9999997	.9999999	1.0000000	1.0000000
11	.9998353	.9999481	.9999844	.9999955	.9999988	.9999997	.9999999	1.0000000
12	.9995471	.9998479	.9999514	.9999852	.9999957	.9999988	.9999997	.9999999
13	.9988636	.9995931	.9998618	.9999553	.9999862	.9999960	.9999989	.9999997
14	.9973774	.9989994	.9996385	.9998760	.9999596	.9999874	.9999963	.9999989
15	.9943987	.9977241	.9991261	.9996821	.9998901	.9999639	.9999887	.9999966
16	.9888673	.9951859	.9980363	.9992424	.9997228	.9999037	.9999681	.9999900
17	.9793080	.9904849	.9958794	.9983148	.9993476	.9997604	.9999164	.9999732
18	.9638749	.9823508	.9918914	.9964871	.9985613	.9994418	.9997944	.9999280
19	.9405186	.9691577	.9849795	.9931109	.9970170	.9987779	.9995253	.9998249
20	.9078838	.9490377	.9737155	.9872469	.9941650	.9974770	.9989669	.9995988
21	.8626970	.9201092	.9564094	.9776446	.9891993	.9950735	.9978744	.9991310
22	.8061641	.8807986	.9312794	.9627840	.9810278	.9908771	.9958543	.9982164
23	.7382690	.8302004	.8967150	.9409996	.9682911	.9839369	.9923160	.9965231
24	.6600777	.7683880	.8515940	.9106909	.9494488	.9730429	.9864342	.9935471
25	.5769984	.6965876	.7955873	.8705951	.9229444	.9567835	.9771372	.9885740
26	.4904106	.6171519	.7293749	.8200743	.8874352	.9336701	.9631411	.9806590
27	.4051470	.5333196	.6547052	.7593522	.8420547	.9023279	.9430417	.9686423
28	.3249436	.4488057	.5742654	.6896342	.7866534	.8617289	.9154691	.9511145
29	.2527812	.3673102	.4913783	.6130689	.7219602	.8114264	.8792897	.9270384
30	.1906023	.2920519	.4095851	.5325434	.6496144	.7517393	.8338265	.8949205
31	.1392360	.2254208	.3322014	.4513468	.5720488	.6838390	.7790541	.8540126
32	.0985103	.1686028	.2619366	.3727694	.4922345	.6097045	.7157228	.8040063
33	.0674907	.1225048	.2006446	.2997171	.4133357	.5319466	.6453747	.7452817
34	.0447724	.0863073	.1492355	.2344127	.3383410	.4535240	.5702371	.6789707
35	.0287602	.0589040	.1077386	.1782317	.2697401	.3774080	.4930043	.6069115
36	.0178905	.0389673	.0754779	.1316817	.2093019	.3062548	.4165453	.5314930
37	.0107787	.0249874	.0513045	.0945064	.1579804	.2421460	.3435893	.4554130
38	.0062907	.0155323	.0338338	.0658714	.1159470	.1864340	.2764462	.3813892
39	.0035572	.0093603	.0216474	.0445835	.0827207	.1397066	.2168068	.3118766
40	.0019494	.0054696	.0134383	.0292998	.0573561	.1018577	.1656476	.2488368
41	.0010355	.0030996	.0080948	.0188268	.0386458	.0722337	.1232420	.1935940
42	.0005333	.0017038	.0047320	.0115851	.0253018	.0498165	.0892583	.1467901
43	.0002664	.0009086	.0026849	.0069709	.0160962	.0334074	.0629142	.1084320
44	.0001291	.0004702	.0014788	.0040716	.0099501	.0217830	.0431501	.0780005
45	.0000607	.0002362	.0007908	.0023122	.0059771	.0138098	.0287937	.0546449
46	.0000277	.0001152	.0004107	.0012749	.0034893	.0085126	.0186925	.0372657
47	.0000123	.0000545	.0002071	.0006830	.0019798	.0051022	.0118053	.0247384
48	.0000053	.0000251	.0001015	.0003555	.0010919	.0029737	.0072531	.0159847
49	.0000022	.0000112	.0000483	.0001799	.0005854	.0016854	.0043353	.0100529
50	.0000009	.0000049	.0000224	.0000885	.0003052	.0009291	.0025211	.0061536
51	.0000004	.0000021	.0000101	.0000423	.0001547	.0004981	.0014265	.0036663
52	.0000001	.0000008	.0000044	.0000197	.0000763	.0002598	.0007853	.0021261
53	.0000001	.0000003	.0000019	.0000089	.0000366	.0001318	.0004207	.0012002
54		.0000001	.0000008	.0000039	.0000171	.0000651	.0002194	.0006595
55			.0000003	.0000017	.0000077	.0000313	.0001113	.0003528
56			.0000001	.0000007	.0000034	.0000146	.0000550	.0001837
57				.0000003	.0000015	.0000067	.0000264	.0000932
58				.0000001	.0000006	.0000029	.0000124	.0000460
59					.0000003	.0000013	.0000056	.0000221
60					.0000001	.0000005	.0000025	.0000104
61						.0000002	.0000011	.0000047
62						.0000001	.0000005	.0000021
63							.0000002	.0000009
64							.0000001	.0000004
65								.0000002
66								.0000001

k	.25	.26	.27	.28	.29	.30	.31	.32
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	.9999990	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	.9999970	.9999991	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
17	.9999912	.9999973	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000
18	.9999740	.9999924	.9999977	.9999993	.9999998	1.0000000	1.0000000	1.0000000
19	.9999386	.9999795	.9999935	.9999980	.9999994	.9999998	1.0000000	1.0000000
20	.9998520	.9999480	.9999826	.9999945	.9999983	.9999995	.9999999	1.0000000
21	.9996628	.9998756	.9999564	.9999854	.9999954	.9999986	.9999996	.9999999
22	.9992724	.9997182	.9998962	.9999636	.9999879	.9999961	.9999988	.9999997
23	.9985095	.9993938	.9997658	.9999140	.9999699	.9999900	.9999968	.9999990
24	.9970942	.9987596	.9994974	.9998065	.9999291	.9999753	.9999918	.9999974
25	.9945978	.9975803	.9989721	.9995853	.9998410	.9999420	.9999799	.9999933
26	.9904038	.9954922	.9979927	.9991518	.9996596	.9998701	.9999539	.9999837
27	.9836826	.9919648	.9962513	.9982461	.9993033	.9997226	.9999045	.9999619
28	.9733934	.9862730	.9932933	.9968938	.9986350	.9994303	.9997741	.9999148
29	.9583270	.9774881	.9884873	.9944809	.9974358	.9988814	.9995364	.9998174
30	.9371995	.9645032	.9810092	.9903753	.9953753	.9978915	.9990879	.9996246
31	.9087947	.9461019	.9698535	.9840256	.9917602	.9961406	.9982734	.9992587

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 150

n	.25	.26	.27	.28	.29	.30	.31	.32
32	.8721434	.9210750	.9538816	.9744769	.9866136	.9933421	.9968578	.9985921
33	.8267110	.8883751	.9319135	.9606620	.9784614	.9886183	.9944929	.9974285
34	.7725593	.8472928	.9028597	.9414814	.9665549	.9818857	.9906936	.9954628
35	.7104441	.7976216	.8658810	.9157431	.9498197	.9716615	.9848197	.9922857
36	.6418216	.7397806	.8205515	.8826079	.9271648	.9571391	.9760734	.9873859
37	.5687514	.6748614	.7669943	.8414446	.8976054	.9372578	.9635208	.9798728
38	.4937062	.6045837	.7059616	.7921228	.8604058	.9110039	.9461448	.9690666
39	.4193194	.5311570	.6388346	.7350855	.8152289	.8775457	.9229305	.9539445
40	.3481115	.4570687	.5675342	.6713857	.7622241	.8363664	.8929787	.9335080
41	.2822441	.3848337	.4943536	.6026430	.7021525	.7873924	.8556366	.9068804
42	.2235384	.3167395	.4217354	.5309196	.6363235	.7310809	.8106955	.8731288
43	.1723803	.2546492	.3520304	.4585321	.5665430	.6684487	.7581436	.8319756
44	.1297176	.1998569	.2872774	.3878280	.4949568	.6010306	.6989223	.7833371
45	.0951351	.1530411	.2290360	.3209627	.4238518	.5307670	.6342190	.7276766
46	.0679013	.1142950	.1782941	.2597107	.3554397	.4598342	.5657455	.6659771
47	.0473209	.0832207	.1354552	.2053385	.2916568	.3904434	.4955238	.5997015
48	.0320820	.0590618	.1003950	.1585501	.2340095	.3246381	.4257135	.5306886
49	.0211819	.0408473	.0725689	.1195056	.1834835	.2641208	.3584115	.4609991
50	.0136186	.0275256	.0511451	.0878982	.1405240	.2101316	.2954689	.3927318
51	.0085260	.0180700	.0351389	.0630688	.1050795	.1633923	.2383463	.3278377
52	.0051975	.0115571	.0235300	.0441357	.0766925	.1241157	.1880350	.2679585
53	.0030851	.0072000	.0153568	.0301179	.0546180	.0920685	.1449827	.2143111
54	.0017832	.0043693	.0097667	.0200381	.0379463	.0666726	.1092860	.1676301
55	.0010036	.0025828	.0060527	.0129967	.0257143	.0471218	.0803691	.1281699
56	.0005501	.0014871	.0036550	.0082171	.0169937	.0324968	.0577399	.0957577
57	.0002936	.0008341	.0021506	.0050659	.0109511	.0218639	.0404927	.0698824
58	.0001526	.0004557	.0012330	.0030416	.0068809	.0143488	.0277141	.0498016
59	.0000773	.0002425	.0006888	.0017806	.0042152	.0091845	.0185085	.0346494
60	.0000381	.0001258	.0003749	.0010160	.0025174	.0057334	.0120594	.0235308
61	.0000183	.0000635	.0001908	.0005650	.0014657	.0034901	.0076649	.0155951
62	.0000086	.0000313	.0000928	.0003062	.0008319	.0020716	.0047520	.0100853
63	.0000039	.0000150	.0000517	.0001617	.0004602	.0011990	.0028734	.0063633
64	.0000017	.0000070	.0000254	.0000833	.0002482	.0006766	.0016945	.0039167
65	.0000007	.0000032	.0000121	.0000418	.0001305	.0003722	.0009744	.0023516
66	.0000003	.0000014	.0000057	.0000204	.0000669	.0001997	.0005464	.0013771
67	.0000001	.0000006	.0000026	.0000097	.0000334	.0001044	.0002988	.0007866
68	.0000001	.0000003	.0000011	.0000045	.0000163	.0000532	.0001593	.0004381
69		.0000001	.0000005	.0000020	.0000077	.0000264	.0000828	.0002380
70			.0000002	.0000009	.0000036	.0000128	.0000420	.0001260
71			.0000001	.0000004	.0000016	.0000061	.0000207	.0000651
72				.0000002	.0000007	.0000028	.0000100	.0000328
73				.0000001	.0000003	.0000012	.0000047	.0000161
74					.0000001	.0000005	.0000021	.0000077
75					.0000001	.0000002	.0000010	.0000036
76						.0000001	.0000004	.0000016
77							.0000002	.0000007
78							.0000001	.0000003
79								.0000001
80								.0000001

n	.33	.34	.35	.36	.37	.38	.39	.40
1	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
2	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
3	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
4	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
5	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
6	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
7	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
8	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
9	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
10	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
11	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
12	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
13	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
14	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
15	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
16	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.000000	1.0000000	1.0000000
17	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
18	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
19	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
20	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
21	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
22	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
23	.9999997	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
24	.9999992	.9999998	.9999999	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
25	.9999979	.9999994	.9999998	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
26	.9999946	.9999983	.9999995	.9999999	1.0000000	1.0000000	1.0000000	1.0000000
27	.9999869	.9999957	.9999987	.9999996	.9999999	1.0000000	1.0000000	1.0000000
28	.9999694	.9999896	.9999966	.9999989	.9999997	1.0000000	1.0000000	1.0000000
29	.9999316	.9999756	.9999917	.9999973	.9999992	.9999998	.9999999	1.0000000
30	.9998532	.9999454	.9999807	.9999935	.9999979	.9999994	.9999998	.9999999
31	.9996976	.9998827	.9999567	.9999848	.9999949	.9999984	.9999995	.9999999
32	.9994007	.9997576	.9999060	.9999659	.9999882	.9999961	.9999988	.9999996
33	.9988571	.9995180	.9998068	.9999264	.9999733	.9999908	.9999970	.9999991
34	.9978996	.9990765	.9996143	.9998469	.9999422	.9999793	.9999929	.9999977
35	.9962767	.9982940	.9992575	.9996930	.9998794	.9999549	.9999840	.9999946
36	.9936275	.9969579	.9986208	.9994060	.9997570	.9999055	.9999651	.9999878
37	.9894594	.9947592	.9975256	.9988904	.9995273	.9998087	.9999265	.9999738
38	.9831340	.9916694	.9957086	.9979868	.9991119	.9996260	.9998504	.9999438
39	.9738695	.9869233	.9927993	.9965020	.9983362	.9992929	.9997058	.9998837
40	.9607652	.9780143	.9883004	.9940875	.9971623	.9987066	.9994402	.9997699
41	.9428543	.9667080	.9815780	.9903184	.9951677	.9977095	.9989690	.9995594
42	.9191861	.9510814	.9718666	.9846304	.9920248	.9960698	.9981607	.9991827
43	.8889323	.9301896	.9582954	.9763270	.9872345	.9934616	.9968197	.9985318
44	.8515061	.9031583	.9399416	.9645959	.9801683	.9894467	.9946662	.9974401

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 150

c	.33	.34	.35	.36	.37	.38	.39	.40
45	.80667785	.86929488	.91590883	.94885491	.97007630	.98346866	.99131800	.99567130
46	.75466950	.82820240	.88542510	.92720700	.95611480	.97482310	.98637560	.99289370
47	.69619740	.77988230	.84795820	.89988710	.93739030	.96273640	.97891690	.98866680
48	.63247050	.72480180	.80331690	.86600750	.91307510	.94634400	.96850630	.98243180
49	.56511720	.66391420	.75173610	.82499310	.88242170	.92478540	.95422390	.97351140
50	.49606120	.59862100	.69392030	.77696850	.84494650	.89727900	.93521560	.96113260
51	.42735560	.53067650	.63103440	.72240060	.80048790	.86322620	.91066690	.94446250
52	.36100250	.46204570	.56463910	.66221540	.74929060	.82230160	.87989220	.92267140
53	.29877220	.39473480	.49657420	.59776230	.69204530	.77454760	.84243290	.89501360
54	.24211640	.33061810	.42880550	.53072490	.62980790	.72044840	.79811490	.86091960
55	.19198170	.27128670	.36325720	.46298930	.56429660	.66088560	.74729130	.82009100
56	.14888080	.21793760	.30165100	.39648520	.49706700	.59710420	.69053670	.77258140
57	.11286760	.17131480	.24537610	.33302430	.43008520	.53082930	.62898050	.71885030
58	.08361580	.13170650	.19540460	.27415590	.36521110	.46384180	.56407840	.65977740
59	.06051390	.09899930	.15225940	.22106020	.30411070	.39800920	.49754360	.59663060
60	.04277110	.07270800	.11603320	.17448690	.24817070	.33509210	.43121220	.53098650
61	.02951700	.05217410	.08644080	.13475780	.19833560	.27660630	.36689240	.46461300
62	.01980530	.03656710	.06294490	.10178430	.15515290	.22371850	.30621990	.39932760
63	.01307540	.02502580	.04477770	.07515950	.11874730	.17718720	.25053660	.33685010
64	.00839020	.01677100	.03111340	.05424000	.08888160	.13735090	.20000850	.27867010
65	.00525340	.01090530	.02111160	.03824390	.06503790	.10416060	.15758940	.22594440
66	.00320910	.00694140	.01398610	.02633920	.04651030	.07724600	.12103030	.17943770
67	.00191240	.00431150	.00904470	.01771500	.03249660	.05600110	.09092760	.13950760
68	.00111170	.00261300	.00570880	.01163300	.02219190	.03967620	.06679830	.10613330
69	.00063030	.00154490	.00351640	.00745720	.01478100	.02746350	.04796840	.07897570
70	.00034860	.00089110	.00211340	.00466580	.00961830	.01856800	.03366140	.05745960
71	.00018800	.00050130	.00123920	.00284890	.00610980	.01225920	.02307690	.04086140
72	.00009890	.00027510	.00070890	.00169730	.00378800	.00790240	.01545200	.02833930
73	.00005070	.00014720	.00039550	.00098660	.00229190	.00497240	.01010310	.01927310
74	.00002530	.00007680	.00021520	.00055940	.00135300	.00305370	.00644900	.01277650
75	.00001240	.00003910	.00011420	.00030940	.00077930	.00183000	.00401810	.00826990
76	.00000590	.00001940	.00005910	.00016690	.00043780	.00107000	.00244320	.00522540
77	.00000270	.00000940	.00002980	.00008780	.00023990	.00061030	.00144960	.00322250
78	.00000120	.00000440	.00001470	.00004500	.00012820	.00033950	.00083900	.00193920
79	.00000050	.00000200	.00000700	.00002250	.00006680	.00018420	.00047370	.00113850
80	.00000020	.00000090	.00000330	.00001100	.00003390	.00009750	.00026080	.00065200
81	.00000010	.00000040	.00000150	.00000520	.00001680	.00005030	.00014010	.00036420
82		.00000020	.00000070	.00000240	.00000810	.00002530	.00007330	.00019840
83		.00000010	.00000030	.00000110	.00000380	.00001240	.00003740	.00010530
84			.00000010	.00000050	.00000180	.00000590	.00001860	.00005450
85				.00000020	.00000080	.00000280	.00000900	.00002750
86				.00000010	.00000030	.00000120	.00000430	.00001350
87					.00000010	.00000060	.00000200	.00000650
88					.00000010	.00000020	.00000090	.00000300
89						.00000010	.00000040	.00000140
90							.00000020	.00000060
91							.00000010	.00000030
92								.00000010

c	.41	.42	.43	.44	.45	.46	.47	.48
1	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
2	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
3	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
4	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
5	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
6	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
7	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
8	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
9	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
10	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
11	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
12	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
13	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
14	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
15	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
16	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
17	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
18	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
19	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
20	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
21	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
22	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
23	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
24	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
25	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
26	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
27	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
28	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
29	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
30	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
31	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
32	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
33	.99999997	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
34	.99999983	.99999998	.99999999	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
35	.99999883	.99999995	.99999998	1.00000000	1.00000000	1.00000000	1.00000000	1.00000000
36	.99999959	.99999987	.99999996	.99999999	1.00000000	1.00000000	1.00000000	1.00000000
37	.99999807	.99999969	.99999990	.99999997	.99999999	1.00000000	1.00000000	1.00000000
38	.99999795	.99999930	.99999977	.99999993	.99999998	.99999999	1.00000000	1.00000000
39	.99999564	.99999845	.99999947	.99999983	.99999995	.99999999	1.00000000	1.00000000
40	.99999102	.99999667	.99999883	.99999961	.99999988	.99999996	.99999999	1.00000000
41	.99988212	.99999312	.99997748	.99999913	.99999971	.99999991	.99999997	.99999999
42	.99966553	.99998620	.99999476	.99999811	.99999936	.99999979	.99999994	.99999998
43	.99935600	.99997320	.99998942	.99999604	.99999859	.99999953	.99999985	.99999995
44	.99888337	.99994957	.99997931	.99999195	.99999703	.99999896	.99999965	.99999989

$$P(o;n,p) = \sum_{x=0}^{n} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 150

x	.41	.42	.43	.44	.45	.46	.47	.48
45	.9979510	.9990794	.9996076	.9998414	.9999392	.9999779	.9999924	.9999978
46	.9965061	.9983694	.9992780	.9996968	.9998793	.9999545	.9999837	.9999945
47	.9942142	.9971959	.9987103	.9994374	.9997673	.9999088	.9999668	.9999881
48	.9906900	.9953154	.9977628	.9989865	.9995546	.9998388	.9999317	.9999761
49	.9854348	.9923934	.9962290	.9982268	.9992088	.9996655	.9998461	.9999493
50	.9778328	.9879888	.9938203	.9969887	.9986028	.9993067	.9997480	.9998996
51	.9671618	.9815460	.9901498	.9950092	.9976011	.9989069	.9995881	.9998071
52	.9526215	.9723979	.9847205	.9919687	.9959948	.9981084	.9991809	.9996397
53	.9333847	.9597859	.9769287	.9874204	.9934918	.9968086	.9985141	.9993454
54	.9086665	.9428988	.9660455	.9808126	.9897044	.9947583	.9974699	.9988431
55	.8778115	.9209327	.9513058	.9714865	.9841389	.9916258	.9958066	.9980103
56	.8403861	.8931686	.9318975	.9586965	.9761910	.9869675	.9933381	.9966408
57	.7962662	.8590618	.9070593	.9414485	.9651593	.9802368	.9893580	.9945673
58	.7457049	.8190318	.8761588	.9195587	.9502744	.9707800	.9836948	.9913686
59	.6893663	.7730394	.8387810	.8917289	.9307447	.9578637	.9756408	.9866343
60	.6283181	.7176386	.7948123	.8576327	.9058332	.9407069	.9648037	.9798199
61	.5639760	.6589897	.7445055	.8170005	.8749177	.9185407	.9495247	.9708797
62	.4980070	.5963292	.6885125	.7698981	.8375980	.8906815	.9299265	.9572867
63	.4322003	.5311944	.6278773	.7167722	.7937665	.8566148	.9049784	.9400708
64	.3683234	.4653109	.5639831	.6584663	.7436734	.8160792	.8740753	.9178717
65	.3079821	.4004569	.4984601	.5961908	.6879590	.7691396	.8368828	.8900167
66	.2525027	.3383208	.4330609	.5314518	.6276472	.7162356	.7931133	.8559975
67	.2028504	.2803736	.3695218	.4659420	.5640955	.6581955	.7431948	.8155550
68	.1595916	.2277630	.3094266	.4014100	.4989055	.5962091	.6876941	.7687513
69	.1228992	.1812626	.2540914	.3395216	.4338025	.5317581	.6276204	.7160177
70	.0925971	.1412458	.2044824	.2817335	.3705009	.4665113	.5643105	.6581695
71	.0682307	.1077145	.1611771	.2291934	.3105693	.4021967	.4993454	.5963800
72	.0491517	.0803553	.1243670	.1826791	.2553197	.3404654	.4344321	.5321136
73	.0346044	.0586173	.0938983	.1425790	.2057202	.2827670	.3712708	.4670238
74	.0238029	.0417979	.0693380	.1089138	.1623592	.2302500	.3114236	.4028245
75	.0159924	.0291245	.0500603	.0813901	.1254438	.1836997	.2561999	.3411617
76	.0104925	.0198248	.0353230	.0594761	.0948375	.1435169	.2065750	.2834838
77	.0067207	.0131792	.0243517	.0424844	.0701255	.1097376	.1631471	.2309421
78	.0042018	.0085544	.0163975	.0296540	.0506944	.0820837	.1261360	.1843328
79	.0025636	.0054000	.0107817	.0202192	.0358153	.0600568	.0954187	.1440657
80	.0015261	.0033514	.0069205	.0134630	.0247202	.0429202	.0705926	.1101901
81	.0008862	.0020220	.0043354	.0087517	.0166636	.0299797	.0510337	.0834381
82	.0005019	.0011901	.0026501	.0055527	.0109670	.0204533	.0360798	.0603998
83	.0002772	.0006831	.0015803	.0034377	.0070451	.0136248	.0249062	.0431042
84	.0001498	.0003824	.0009191	.0020762	.0044162	.0088591	.0167882	.0300999
85	.0000783	.0002097	.0005212	.0012230	.0027006	.0056211	.0110463	.0205853
86	.0000401	.0001110	.0002882	.0007025	.0015106	.0034794	.0070925	.0136628
87	.0000200	.0000575	.0001553	.0003933	.0009366	.0021004	.0044425	.0088750
88	.0000097	.0000291	.0000815	.0002146	.0005310	.0012363	.0027138	.0056439
89	.0000046	.0000143	.0000417	.0001141	.0002933	.0007093	.0016162	.0034754
90	.0000021	.0000069	.0000208	.0000591	.0001579	.0003966	.0009382	.0020938
91	.0000009	.0000032	.0000101	.0000298	.0000828	.0002160	.0005307	.0012895
92	.0000004	.0000015	.0000048	.0000147	.0000423	.0001146	.0002925	.0007034
93	.0000002	.0000006	.0000022	.0000070	.0000210	.0000592	.0001569	.0003920
94	.0000001	.0000003	.0000010	.0000033	.0000102	.0000298	.0000820	.0002127
95		.0000001	.0000004	.0000015	.0000048	.0000145	.0000417	.0001124
96			.0000002	.0000007	.0000022	.0000069	.0000206	.0000578
97			.0000001	.0000003	.0000010	.0000032	.0000099	.0000289
98				.0000001	.0000004	.0000014	.0000047	.0000141
99					.0000002	.0000006	.0000021	.0000066
100					.0000001	.0000003	.0000009	.0000031
101						.0000001	.0000004	.0000014
102							.0000002	.0000006
103							.0000001	.0000002
104								.0000001

x	.49	.50
1	1.0000000	1.0000000
2	1.0000000	1.0000000
3	1.0000000	1.0000000
4	1.0000000	1.0000000
5	1.0000000	1.0000000
6	1.0000000	1.0000000
7	1.0000000	1.0000000
8	1.0000000	1.0000000
9	1.0000000	1.0000000
10	1.0000000	1.0000000
11	1.0000000	1.0000000
12	1.0000000	1.0000000
13	1.0000000	1.0000000
14	1.0000000	1.0000000
15	1.0000000	1.0000000
16	1.0000000	1.0000000
17	1.0000000	1.0000000
18	1.0000000	1.0000000
19	1.0000000	1.0000000
20	1.0000000	1.0000000
21	1.0000000	1.0000000
22	1.0000000	1.0000000
23	1.0000000	1.0000000
24	1.0000000	1.0000000
25	1.0000000	1.0000000
26	1.0000000	1.0000000
27	1.0000000	1.0000000
28	1.0000000	1.0000000
29	1.0000000	1.0000000
30	1.0000000	1.0000000
31	1.0000000	1.0000000
32	1.0000000	1.0000000
33	1.0000000	1.0000000

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r} \qquad n = 150$$

c	.49	.50
34	1.0000000	1.0000000
35	1.0000000	1.0000000
36	1.0000000	1.0000000
37	1.0000000	1.0000000
38	1.0000000	1.0000000
39	1.0000000	1.0000000
40	1.0000000	1.0000000
41	1.0000000	1.0000000
42	.9999999	1.0000000
43	.9999999	1.0000000
44	.9999997	.9999999
45	.9999993	.9999998
46	.9999983	.9999995
47	.9999961	.9999983
48	.9999914	.9999972
49	.9999818	.9999938
50	.9999627	.9999869
51	.9999254	.9999728
52	.9998553	.9999451
53	.9997271	.9998925
54	.9994993	.9997951
55	.9991062	.9996208
56	.9984469	.9993150
57	.9973724	.9987972
58	.9956698	.9979434
59	.9930469	.9965742
60	.9891173	.9944392
61	.9833912	.9912012
62	.9752740	.9864237
63	.9640790	.9795658
64	.9490547	.9699864
65	.9294320	.9569644
66	.9044877	.9397354
67	.8736283	.9175465
68	.8364430	.8897276
69	.7928820	.8557721
70	.7430582	.8154193
71	.6877104	.7687252
72	.6277984	.7161123
73	.5646271	.6583841
74	.4997822	.5967020
75	.4349544	.5325193
76	.3718384	.4674807
77	.3119955	.4032980
78	.2567395	.3416159
79	.2070535	.2838877
80	.1635459	.2312748
81	.1264472	.1845807
82	.0956438	.1442279
83	.0707404	.1102724
84	.0511376	.0824535
85	.0361153	.0602646
86	.0249083	.0430356
87	.0167701	.0300136
88	.0110181	.0204342
89	.0070617	.0135763
90	.0044137	.0087988
91	.0026893	.0055608
92	.0015969	.0034258
93	.0009238	.0020566
94	.0005205	.0012038
95	.0002855	.0006850
96	.0001525	.0003798
97	.0000792	.0002049
98	.0000400	.0001075
99	.0000197	.0000549
100	.0000094	.0000272
101	.0000044	.0000131
102	.0000020	.0000062
103	.0000009	.0000028
104	.0000004	.0000012
105	.0000002	.0000005
106	.0000001	.0000002
107		.0000001

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 1

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0010000	.0020000	.0030000	.0040000	.0050000	.0060000	.0070000	.0080000

c\p	.009	.010
1	.0090000	.0100000

n = 2

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0019990	.0039960	.0059910	.0079840	.0099750	.0119640	.0139510	.0159360
2	.0000010	.0000040	.0000090	.0000160	.0000250	.0000360	.0000490	.0000640

c\p	.009	.010
1	.0179190	.0199000
2	.0000810	.0001000

n = 3

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0029970	.0059880	.0089730	.0119521	.0149251	.0178922	.0208533	.0238085
2	.0000030	.0000120	.0000269	.0000479	.0000748	.0001076	.0001463	.0001910
3				.0000001	.0000001	.0000002	.0000003	.0000005

c\p	.009	.010
1	.0267577	.0297010
2	.0002415	.0002980
3	.0000007	.0000010

n = 4

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0039940	.0079760	.0119461	.0159043	.0198505	.0237849	.0277074	.0316180
2	.0000060	.0000239	.0000538	.0000955	.0001490	.0002143	.0002913	.0003799
3			.0000001	.0000003	.0000005	.0000009	.0000014	.0000020

c\p	.009	.010
1	.0355169	.0394040
2	.0004802	.0005920
3	.0000089	.0000040

n = 5

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0049900	.0099601	.0149103	.0198406	.0247512	.0296423	.0345134	.0393651
2	.0000100	.0000399	.0000895	.0001587	.0002475	.0003557	.0004832	.0006298
3		.0000001	.0000003	.0000006	.0000012	.0000021	.0000034	.0000051

c\p	.009	.010
1	.0441973	.0490100
2	.0007955	.0009801
3	.0000072	.0000095

$$P(o,r,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 6

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0059850	.0119402	.0178655	.0237613	.0296275	.0354643	.0412718	.0470500
2	.0000150	.0000597	.0001339	.0002375	.0003700	.0005314	.0007214	.0009397
3		.0000002	.0000005	.0000013	.0000035	.0000045	.0000068	.0000101
4								.0000001

c/p	.009	.010
1	.0527895	.0585199
2	.0011861	.0014604
3	.0000143	.0000196
4	.0000001	.0000001

n = 7

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0069790	.0139161	.0208119	.0276668	.0344794	.0412515	.0479829	.0546738
2	.0000209	.0000014	.0001071	.0003315	.0005163	.0007410	.0010052	.0013086
3		.0000001	.0000009	.0000032	.0000043	.0000074	.0000116	.0000175
4							.0000001	.0000001

c/p	.009	.010
1	.0613243	.0679147
2	.0016507	.0020110
3	.0000248	.0000340
4	.0000002	.0000003

n = 8

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0079721	.0158804	.0237495	.0315556	.0393070	.0470040	.0546478	.0622364
2	.0000279	.0001111	.0002490	.0004409	.0006861	.0009841	.0013341	.0017355
3	.0000001	.0000004	.0000015	.0000035	.0000069	.0000118	.0000187	.0000278
4						.0000001	.0000002	.0000003

c/p	.009	.010
1	.0697784	.0772553
2	.0021877	.0026901
3	.0000385	.0000539
4	.0000004	.0000007

n = 9

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0089641	.0178567	.0266783	.0354293	.0441104	.0527220	.0612645	.0697385
2	.0000358	.0001427	.0003195	.0005653	.0008792	.0012602	.0017073	.0022195
3	.0000001	.0000007	.0000029	.0000083	.0000183	.0000177	.0000279	.0000415
4					.0000001	.0000002	.0000003	.0000005

c/p	.009	.010
1	.0781444	.0864928
2	.0027960	.0034157
3	.0000588	.0000803
4	.0000008	.0000012

n = 10

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0099551	.0198310	.0295982	.0392876	.0488809	.0584056	.0678357	.0771806
2	.0000448	.0001781	.0003986	.0007048	.0010954	.0015690	.0021848	.0027597
3	.0000001	.0000009	.0000032	.0000075	.0000146	.0000251	.0000397	.0000589
4				.0000001	.0000001	.0000003	.0000005	.0000008

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c/p	.009	.010
1	.0864411	.0956179
2	.0034741	.0043662
3	.0000834	.0001138
4	.0000013	.0000020

n = 11

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0109482	.0217813	.0325094	.0431305	.0536454	.0640552	.0743608	.0845631
2	.0000547	.0002174	.0004862	.0008591	.0013344	.0019100	.0025848	.0033850
3	.0000002	.0000013	.0000044	.0000103	.0000200	.0000344	.0000543	.0000805
4				.0000001	.0000002	.0000004	.0000006	.0000013

c/p	.009	.010
1	.0946631	.1046617
2	.0042208	.0051797
3	.0001140	.0001554
4	.0000021	.0000031

n = 12

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0119343	.0237178	.0354119	.0469580	.0583772	.0696709	.0808403	.0918866
2	.0000656	.0003605	.0008522	.0010282	.0015959	.0022829	.0030866	.0040047
3	.0000002	.0000017	.0000058	.0000137	.0000266	.0000456	.0000730	.0001067
4				.0000001	.0000003	.0000006	.0000011	.0000019
5								

c/p	.009	.010
1	.1028113	.1136151
2	.0050348	.0061745
3	.0001509	.0002056
4	.0000031	.0000046
5		.0000001

n = 13

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0129223	.0256901	.0383057	.0507701	.0630853	.0752539	.0872744	.0991518
2	.0000774	.0003075	.0006867	.0012119	.0018708	.0026872	.0036309	.0047078
3	.0000003	.0000023	.0000076	.0000178	.0000344	.0000591	.0000931	.0001379
4			.0000001	.0000002	.0000004	.0000009	.0000016	.0000026
5								

c/p	.009	.010
1	.1108859	.1224790
2	.0059148	.0072489
3	.0001949	.0002653
4	.0000044	.0000067
5	.0000001	.0000001

n = 14

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0139004	.0276389	.0411907	.0545670	.0677699	.0808013	.0936638	.1063603
2	.0000903	.0003582	.0007990	.0014108	.0021859	.0031284	.0042414	.0054283
3	.0000004	.0000029	.0000096	.0000225	.0000437	.0000749	.0001176	.0001745
4			.0000001	.0000002	.0000006	.0000010	.0000017	.0000026
5								.0000001

c/p	.009	.010
1	.1188879	.1313643
2	.0068595	.0084013
3	.0003443	.0004351
4	.0000061	.0000092
5	.0000001	.0000002

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 15

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0140955	.0395036	.0440673	.0583488	.0724310	.0863165	.1000078	.1135075
2	.0001041	.0004138	.0009208	.0015228	.0025138	.0035807	.0048485	.0060705
3	.0000005	.0000036	.0000120	.0000281	.0000544	.0000931	.0001468	.0002168
4			.0000001	.0000003	.0000008	.0000017	.0000031	.0000058
5								.0000001

c/p	.009	.010
1	.1286179	.1399416
2	.0078678	.0096298
3	.0003059	.0004158
4	.0000083	.0000135
5	.0000002	.0000003

n = 14

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0150005	.0115845	.0469350	.0681154	.0770609	.0917986	.1066078	.1205994
2	.0001180	.0004711	.0010508	.0018497	.0028634	.0040850	.0055087	.0071284
3	.0000008	.0000044	.0000147	.0000345	.0000667	.0001141	.0001794	.0002653
4			.0000001	.0000004	.0000011	.0000022	.0000041	.0000069
5							.0000001	.0000011

c/p	.009	.010
1	.1346766	.1485488
2	.0089383	.0109329
3	.0003739	.0005079
4	.0000110	.0000165
5	.0000002	.0000004

n = 13

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0160647	.0134614	.0497942	.0658669	.0816835	.0972478	.1125636	.1276346
2	.0001346	.0005332	.0011879	.0020904	.0033344	.0048111	.0063143	.0080361
3	.0000007	.0000053	.0000178	.0000417	.0000807	.0001379	.0002167	.0003201
4			.0000002	.0000006	.0000014	.0000029	.0000053	.0000090
5							.0000001	.0000008

c/p	.009	.010
1	.1424645	.1570568
2	.0100700	.0123090
3	.0004510	.0006122
4	.0000143	.0000214
5	.0000003	.0000006

n = 12

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0178478	.0131945	.0526448	.0696034	.0862751	.1026644	.1187757	.1346135
2	.0001514	.0006901	.0013337	.0023459	.0036246	.0051671	.0069387	.0089989
3	.0000008	.0000064	.0000213	.0000490	.0000944	.0001647	.0002587	.0003818
4			.0000002	.0000007	.0000018	.0000037	.0000068	.0000118
5						.0000001	.0000001	.0000003

c/p	.009	.010
1	.1501823	.1654862
2	.0113615	.0137565
3	.0005376	.0007292
4	.0000181	.0000274
5	.0000005	.0000008

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 19

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.01880300	.03732337	.05544469	.07333250	.09096437	.10834484	.12549443	.14243366
2	.00001691	.00006697	.00014876	.00026149	.00040369	.00057881	.00077414	.00099778
3	.00000010	.00000076	.00000258	.00000621	.00001241	.00002148	.00003456	.00005207
4		.00000001	.00000003	.00000009	.00000023	.00000047	.00000086	.00000144
5						.00000001	.00000002	.00000003

c/p	.009	.010
1	.15748304	.17538314
2	.01251118	.01527358
3	.00063341	.00088594
4	.00002288	.00003444
5	.00000006	.00000010

n = 20

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.01901111	.03924490	.05833804	.07703217	.09533895	.11334001	.13104696	.14844043
2	.00001877	.00007480	.00016496	.00028977	.00044739	.00063659	.00085618	.00110508
3	.00000011	.00000089	.00000396	.00000693	.00001337	.00002281	.00003576	.00005271
4		.00000001	.00000004	.00000013	.00000026	.00000056	.00000106	.00000179
5						.00000001	.00000002	.00000005

c/p	.009	.010
1	.16541103	.18209931
2	.01378197	.01648593
3	.00074410	.00100036
4	.00003083	.00004486
5	.00000008	.00000014

n = 21

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.01907913	.03911705	.05811454	.07607136	.09299126	.10887197	.12371588	.13752171
2	.00001874	.00007190	.00016196	.00031943	.00049285	.00070061	.00094194	.00121490
3	.00000013	.00000104	.00000345	.00000806	.00001554	.00002649	.00004151	.00006113
4		.00000001	.00000005	.00000015	.00000035	.00000071	.00000131	.00000220
5					.00000001	.00000001	.00000003	.00000006

c/p	.009	.010
1	.17292215	.19087321
2	.01511840	.01851117
3	.00066587	.00116211
4	.00003477	.00005322
5	.00000011	.00000015

n = 22

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.01917705	.03908802	.05796620	.07588007	.09286130	.10894074	.12414921	.13852784
2	.00002279	.00008997	.00019976	.00033044	.00049034	.00067784	.00089138	.00113036
3	.00000015	.00000130	.00000398	.00000931	.00001793	.00003054	.00004701	.00006736
4		.00000001	.00000006	.00000018	.00000043	.00000087	.00000159	.00000267
5					.00000001	.00000002	.00000004	.00000008
6								

c/p	.009	.010
1	.19036528	.19836944
2	.01660036	.02022293
3	.00098776	.00133566
4	.00004482	.00006333
5	.00000014	.00000023
6		.00000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 23

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0227488	.0450020	.0667701	.0880631	.1088909	.1292633	.1491897	.1686796
2	.0002495	.0009841	.0021835	.0038283	.0058984	.0083763	.0113437	.0148030
3	.0000017	.0000137	.0000457	.0001067	.0002054	.0003496	.0005469	.0008043
4		.0000001	.0000007	.0000021	.0000051	.0000105	.0000191	.0000321
5					.0000001	.0000002	.0000005	.0000010
6								

c/p	.009	.010
1	.1877419	.2063857
2	.0180775	.0220107
3	.0011282	.0015246
4	.0000507	.0000761
5	.0000017	.0000029
6		.0000001

n = 24

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0237260	.0469120	.0695698	.0917109	.1133465	.1344877	.1551454	.1753301
2	.0002720	.0010721	.0023772	.0041649	.0064134	.0091017	.0122093	.0157166
3	.0000020	.0000157	.0000521	.0001216	.0002339	.0003978	.0006218	.0009137
4		.0000002	.0000008	.0000026	.0000061	.0000125	.0000228	.0000383
5					.0000001	.0000003	.0000006	.0000012
6								

c/p	.009	.010
1	.1950522	.2143219
2	.0196045	.0238544
3	.0012807	.0017294
4	.0000604	.0000905
5	.0000022	.0000036
6	.0000001	.0000001

n = 25

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0247023	.0488182	.0723611	.0953440	.1177798	.1396808	.1610594	.1819875
2	.0002954	.0011638	.0025788	.0045151	.0069481	.0098540	.0132098	.0169935
3	.0000023	.0000178	.0000591	.0001378	.0002648	.0004500	.0007029	.0010328
4		.0000001	.0000010	.0000030	.0000073	.0000148	.0000270	.0000453
5				.0000001	.0000002	.0000004	.0000008	.0000015
6								

c/p	.009	.010
1	.2022967	.2221786
2	.0211835	.0257591
3	.0014456	.0019507
4	.0000713	.0001069
5	.0000037	.0000045
6	.0000001	.0000002

n = 26

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0256776	.0507206	.0751440	.0989626	.1221909	.1448427	.1669320	.1884731
2	.0003198	.0012591	.0027882	.0048784	.0075022	.0106329	.0142448	.0183130
3	.0000026	.0000201	.0000647	.0001553	.0002982	.0005064	.0007905	.0011598
4		.0000002	.0000011	.0000016	.0000086	.0000174	.0000317	.0000538
5				.0000001	.0000002	.0000005	.0000010	.0000019
6								.0000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c \ p	.009	.010
1	.2094761	.2299569
2	.0228135	.0277233
3	.0016233	.0021888
4	.0000837	.0001254
5	.0000033	.0000055
6	.0000001	.0000002

n = 27

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0266519	.0526191	.0779186	.1025668	.1265799	.1499737	.1727635	.1949643
2	.0003452	.0013580	.0030052	.0052548	.0080787	.0114382	.0153136	.0196743
3	.0000029	.0000226	.0000748	.0001742	.0003342	.0005675	.0008847	.0012971
4		.0000003	.0000013	.0000042	.0000100	.0000204	.0000370	.0000620
5				.0000001	.0000002	.0000006	.0000012	.0000023
6								.0000001

c \ p	.009	.010
1	.2165008	.2376573
2	.0244935	.0297456
3	.0018140	.0024441
4	.0000976	.0001460
5	.0000040	.0000067
6	.0000001	.0000002

n = 25

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0276253	.0545139	.0806848	.1061565	.1309470	.1550738	.1785541	.2014046
2	.0003715	.0014606	.0032300	.0056440	.0086682	.0122694	.0164158	.0210766
3	.0000032	.0000252	.0000830	.0001945	.0003729	.0006334	.0009857	.0014441
4		.0000003	.0000016	.0000049	.0000116	.0000236	.0000430	.0000719
5				.0000001	.0000003	.0000007	.0000014	.0000028
6								.0000001

c \ p	.009	.010
1	.2236415	.2452807
2	.0262224	.0318248
3	.0020181	.0027171
4	.0001130	.0001690
5	.0000049	.0000081
6	.0000002	.0000003

n = 29

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0285976	.0564049	.0834428	.1097319	.1352923	.1601434	.1843042	.2077933
2	.0003888	.0015667	.0034623	.0060461	.0092796	.0131262	.0175507	.0225198
3	.0000036	.0000281	.0000931	.0002163	.0004144	.0007022	.0010937	.0016011
4		.0000004	.0000018	.0000056	.0000134	.0000277	.0000496	.0000829
5				.0000001	.0000003	.0000008	.0000017	.0000033
6								.0000001

c \ p	.009	.010
1	.2306287	.2528219
2	.0279991	.0339593
3	.0023359	.0030082
4	.0001308	.0001945
5	.0000058	.0000097
6	.0000002	.0000004

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 30

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0295600	.0582920	.0861924	.1132930	.1396158	.1651825	.1900141	.2141310
2	.0004270	.0016763	.0037023	.0064608	.0099046	.0140081	.0187180	.0240014
3	.0000040	.0000312	.0001032	.0002396	.0004587	.0007769	.0012089	.0017685
4		.0000014	.0000021	.0000065	.0000154	.0000314	.0000569	.0000950
5				.0000001	.0000004	.0000010	.0000021	.0000040
6							.0000001	.0000001

c/p	.009	.010
1	.2375530	.2602996
2	.0298228	.0361480
3	.0024678	.0033177
4	.0001491	.0002226
5	.0000070	.0000116
6	.0000003	.0000005

n = 31

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0305395	.0601755	.0889339	.1169398	.1439177	.1701914	.1956840	.2204179
2	.0004561	.0017896	.0039498	.0068881	.0105582	.0149154	.0199171	.0255224
3	.0000044	.0000345	.0001140	.0002645	.0005060	.0008562	.0013314	.0019464
4		.0000005	.0000024	.0000074	.0000177	.0000358	.0000649	.0001084
5				.0000002	.0000005	.0000012	.0000025	.0000047
6							.0000001	.0000003

c/p	.009	.010
1	.2444151	.2676966
2	.0316024	.0383895
3	.0027140	.0036460
4	.0001700	.0002535
5	.0000083	.0000137
6	.0000003	.0000006

n = 32

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0315089	.0620551	.0916671	.1203724	.1481981	.1751703	.2013142	.2266546
2	.0004862	.0019063	.0042047	.0073279	.0112250	.0159470	.0211474	.0270416
3	.0000049	.0000380	.0001255	.0002910	.0005562	.0009405	.0014615	.0021750
4		.0000006	.0000027	.0000084	.0000201	.0000407	.0000738	.0001231
5				.0000002	.0000006	.0000014	.0000029	.0000055
6							.0000001	.0000003

c/p	.009	.010
1	.2512153	.2750197
2	.0336069	.0406826
3	.0029748	.0039934
4	.0001929	.0002875
5	.0000097	.0000161
6	.0000004	.0000007

n = 33

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0324774	.0639310	.0943921	.1238909	.1524571	.1801193	.2069950	.2331414
2	.0005172	.0020266	.0044671	.0077801	.0119048	.0168030	.0224086	.0286782
3	.0000053	.0000417	.0001377	.0003192	.0006096	.0010300	.0015993	.0023345
4		.0000006	.0000041	.0000095	.0000228	.0000461	.0000835	.0001392
5			.0000001	.0000002	.0000007	.0000016	.0000034	.0000065
6							.0000001	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c/p	.009	.010
1	.2579544	.2822695
2	.0355653	.0430260
3	.0032505	.0043603
4	.0002179	.0003245
5	.0000114	.0000188
6	.0000005	.0000009

n = 34

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0334449	.0658031	.0971089	.1273954	.1566949	.1850385	.2124567	.2389786
2	.0005492	.0021504	.0047369	.0082446	.0126126	.0177829	.0237001	.0303115
3	.0000058	.0000457	.0001507	.0003490	.0006661	.0011246	.0017450	.0025453
4		.0000007	.0000035	.0000108	.0000257	.0000520	.0000941	.0001568
5			.0000001	.0000003	.0000008	.0000019	.0000039	.0000075
6						.0000001	.0000001	.0000003

c/p	.009	.010
1	.2646328	.2894468
2	.0375668	.0454184
3	.0035413	.0047470
4	.0002452	.0003649
5	.0000132	.0000218
6	.0000006	.0000011

n = 35

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0344115	.0676715	.0998176	.1308858	.1609114	.1899283	.2179695	.2450668
2	.0005821	.0022778	.0050140	.0087212	.0133330	.0187864	.0250214	.0319808
3	.0000064	.0000499	.0001645	.0003606	.0007258	.0012246	.0018987	.0027674
4	.0000001	.0000008	.0000039	.0000121	.0000289	.0000585	.0001057	.0001759
5			.0000001	.0000003	.0000009	.0000022	.0000046	.0000087
6						.0000001	.0000002	.0000003
7								

c/p	.009	.010
1	.2712511	.2965523
2	.0396104	.0478587
3	.0038476	.0051537
4	.0002749	.0004087
5	.0000153	.0000283
6	.0000007	.0000013
7		.0000001

n = 36

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0353771	.0695362	.1025181	.1343623	.1651068	.1947887	.2234437	.2511063
2	.0006159	.0024085	.0052904	.0092098	.0140709	.0198133	.0263720	.0336855
3	.0000070	.0000544	.0001790	.0004140	.0007888	.0013299	.0020606	.0030011
4	.0000001	.0000009	.0000044	.0000136	.0000324	.0000655	.0001182	.0001966
5			.0000001	.0000003	.0000010	.0000025	.0000053	.0000100
6						.0000001	.0000002	.0000004
7								

c/p	.009	.010
1	.2778098	.3036868
2	.0416958	.0503456
3	.0041694	.0055808
4	.0003070	.0004562
5	.0000176	.0000291
6	.0000008	.0000015
7		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 37

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0363417	.0713971	.1052105	.1378248	.1692813	.1996200	.2288796	.2570974
2	.0006507	.0025429	.0055901	.0097104	.0148261	.0208631	.0277515	.0354249
3	.0000076	.0000591	.0001944	.0004491	.0008552	.0014408	.0022307	.0032466
4	.0000001	.0000010	.0000049	.0000152	.0000362	.0000731	.0001318	.0002191
5			.0000001	.0000004	.0000012	.0000029	.0000061	.0000115
6						.0000001	.0000002	.0000005
7								

c \ p	.009	.010
1	.2843096	.3105509
2	.0438202	.0528780
3	.0045072	.0060284
4	.0003418	.0005074
5	.0000202	.0000334
6	.0000010	.0000018
7		.0000001

n = 38

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0373054	.0732543	.1078249	.1412735	.1734349	.2044223	.2342774	.2630406
2	.0006863	.0026805	.0058889	.0102229	.0155993	.0219357	.0291594	.0371988
3	.0000083	.0000640	.0002105	.0004862	.0009251	.0015574	.0024094	.0035040
4	.0000001	.0000011	.0000055	.0000169	.0000403	.0000813	.0001465	.0002433
5			.0000001	.0000005	.0000014	.0000033	.0000070	.0000132
6						.0000001	.0000003	.0000006
7								

c \ p	.009	.010
1	.2907508	.3174454
2	.0459846	.0554548
3	.0048610	.0064969
4	.0003793	.0005626
5	.0000231	.0000381
6	.0000011	.0000021
7		.0000001

n = 39

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0382681	.0751078	.1105712	.1447084	.1775677	.2091958	.2396375	.2689363
2	.0007330	.0028217	.0061949	.0107471	.0163875	.0230306	.0305952	.0390050
3	.0000089	.0000693	.0002276	.0005251	.0009985	.0016796	.0025966	.0037736
4	.0000001	.0000013	.0000061	.0000188	.0000447	.0000901	.0001624	.0002694
5			.0000001	.0000005	.0000016	.0000038	.0000079	.0000150
6						.0000001	.0000003	.0000007
7								

c \ p	.009	.010
1	.2971340	.3248710
2	.0481875	.0580747
3	.0052311	.0069065
4	.0004196	.0006220
5	.0000263	.0000434
6	.0000013	.0000035
7	.0000001	.0000001

n = 40

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0392298	.0769576	.1132395	.1481296	.1816799	.2139406	.2449600	.2747848
2	.0007605	.0029662	.0065081	.0112829	.0171934	.0241476	.0320585	.0408444
3	.0000096	.0000748	.0002455	.0005660	.0010754	.0018077	.0027926	.0040354
4	.0000001	.0000014	.0000068	.0000209	.0000495	.0000997	.0001794	.0003074
5			.0000001	.0000006	.0000018	.0000043	.0000090	.0000171
6					.0000001	.0000002	.0000004	.0000008
7								

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c/p	.009	.010
1	.3034598	.3310282
2	.0504281	.0607366
3	.0056177	.0074974
4	.0004689	.0006856
5	.0000299	.0000492
6	.0000016	.0000025
7	.0000001	.0000001

n = 41

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0401906	.0788037	.1158998	.1515371	.1857715	.2186569	.2502453	.2805865
2	.0007990	.0031142	.0068283	.0118303	.0180159	.0252863	.0335488	.0427160
3	.0000104	.0000806	.0002643	.0006089	.0011560	.0019418	.0029975	.0043497
4	.0000001	.0000015	.0000075	.0000230	.0000546	.0001099	.0001977	.0003275
5			.0000002	.0000007	.0000020	.0000049	.0000102	.0000193
6					.0000001	.0000002	.0000004	.0000009
7								

c/p	.009	.010
1	.3097287	.3377180
2	.0527053	.0634395
3	.0060210	.0080298
4	.0005093	.0007537
5	.0000338	.0000555
6	.0000018	.0000033
7	.0000001	.0000002

n = 42

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0411504	.0806461	.1185521	.1549309	.1898426	.2233450	.2554936	.2863418
2	.0008384	.0032656	.0071555	.0123891	.0188546	.0264465	.0350657	.0446189
3	.0000111	.0000866	.0002840	.0006538	.0012403	.0020818	.0032113	.0046567
4	.0000001	.0000017	.0000083	.0000254	.0000601	.0001209	.0002173	.0003597
5			.0000002	.0000008	.0000023	.0000055	.0000115	.0000218
6					.0000001	.0000002	.0000005	.0000011
7								

c/p	.009	.010
1	.3159411	.3443408
2	.0550186	.0661823
3	.0064411	.0085839
4	.0005589	.0008265
5	.0000381	.0000625
6	.0000021	.0000039
7	.0000001	.0000002

n = 43

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0421094	.0824848	.1211964	.1583118	.1938934	.2280049	.2607051	.2920611
2	.0008787	.0034203	.0074897	.0129893	.0197096	.0276879	.0366087	.0464527
3	.0000120	.0000930	.0003046	.0007007	.0013284	.0022280	.0034343	.0049764
4	.0000001	.0000019	.0000091	.0000279	.0000660	.0001327	.0002383	.0003940
5			.0000002	.0000009	.0000026	.0000068	.0000130	.0000245
6					.0000001	.0000002	.0000006	.0000013
7								.0000001

c/p	.009	.010
1	.3280976	.3508974
2	.0873669	.0689639
3	.0068783	.0091898
4	.0006119	.0000041
5	.0000427	.0000701
6	.0000024	.0000044
7	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^{r} (1-p)^{n-r}$$

n = 44

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0430671	.0843198	.1238329	.1616779	.1979239	.2326369	.2658802	.2977147
2	.0009199	.0035785	.0078308	.0135407	.0205805	.0288302	.0381774	.0485167
3	.0000128	.0000996	.0003261	.0007498	.0014203	.0023804	.0036665	.0053090
4	.0000001	.0000020	.0000100	.0000306	.0000723	.0001452	.0002606	.0004307
5			.0000002	.0000010	.0000029	.0000069	.0000145	.0000274
6					.0000001	.0000003	.0000007	.0000014
7								.0000001

c/p	.009	.010
1	.3381988	.3573884
2	.0597494	.0717832
3	.0073327	.0097579
4	.0006683	.0009866
5	.0000479	.0000785
6	.0000028	.0000051
7	.0000001	.0000003

n = 45

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0440240	.0861512	.1264614	.1650312	.2019343	.2372411	.2710190	.3033330
2	.0009621	.0037400	.0081788	.0141333	.0214672	.0300530	.0397713	.0506103
3	.0000139	.0001066	.0003486	.0008009	.0015161	.0025391	.0039081	.0056546
4	.0000001	.0000022	.0000109	.0000335	.0000791	.0001587	.0002845	.0004697
5			.0000003	.0000011	.0000032	.0000078	.0000163	.0000307
6					.0000001	.0000003	.0000008	.0000016
7								.0000001

c/p	.009	.010
1	.3342450	.3638145
2	.0621655	.0746393
3	.0078045	.0103781
4	.0007282	.0010743
5	.0000535	.0000876
6	.0000032	.0000058
7	.0000002	.0000003

n = 46

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0449800	.0879789	.1290820	.1683711	.2059247	.2418176	.2761819	.3089063
2	.0010051	.0039048	.0085336	.0147369	.0223695	.0312962	.0413900	.0525329
3	.0000147	.0001139	.0003721	.0008542	.0016158	.0027042	.0041592	.0060135
4	.0000002	.0000024	.0000120	.0000365	.0000862	.0001729	.0003098	.0005118
5			.0000003	.0000013	.0000036	.0000087	.0000181	.0000348
6					.0000001	.0000004	.0000009	.0000019
7								.0000001

c/p	.009	010
1	.3402368	.3701764
2	.0646142	.0775310
3	.0082937	.0110207
4	.0007919	.0011674
5	.0000595	.0000974
6	.0000037	.0000066
7	.0000002	.0000004

n = 47

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0459350	.0898029	.1316947	.1716976	.2098950	.2463667	.2811891	.3144351
2	.0010491	.0040729	.0088953	.0153514	.0232873	.0325893	.0430332	.0545839
3	.0000157	.0001214	.0003966	.0009098	.0017106	.0028758	.0044198	.0063856
4	.0000002	.0000027	.0000130	.0000398	.0000939	.0001881	.0003368	.0005589
5			.0000003	.0000014	.0000040	.0000097	.0000202	.0000380
6					.0000001	.0000004	.0000010	.0000021
7								.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c \ p	.009	.010
1	.3461746	.3764746
2	.0670948	.0804575
3	.0088006	.0116858
4	.0008594	.0012659
5	.0000661	.0001081
6	.0000042	.0000076
7	.0000002	.0000004

n = 49

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0468891	.0916233	.1342996	.1750168	.2138456	.2508885	.2862207	.3199196
2	.0010940	.0042444	.0092637	.0159768	.0242204	.0338421	.0447003	.0566627
3	.0000167	.0001293	.0004221	.0009675	.0018274	.0030539	.0046901	.0067718
4	.0000002	.0000029	.0000142	.0000433	.0001020	.0002043	.0003654	.0006019
5		.0000001	.0000004	.0000015	.0000045	.0000107	.0000224	.0000421
6					.0000002	.0000005	.0000011	.0000024
7								.0000001

c \ p	.009	.010
1	.3520591	.3827099
2	.0696065	.0834177
3	.0093253	.0123736
4	.0009309	.0013701
5	.0000733	.0001197
6	.0000047	.0000086
7	.0000003	.0000005

n = 49

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0478422	.0934401	.1368967	.1783108	.2177763	.2553832	.2912178	.3253608
2	.0011398	.0044191	.0096388	.0166129	.0251605	.0351444	.0463909	.0587687
3	.0000178	.0001376	.0004486	.0010276	.0019304	.0032386	.0049701	.0071704
4	.0000002	.0000032	.0000154	.0000470	.0001106	.0002213	.0003956	.0006513
5		.0000001	.0000004	.0000017	.0000050	.0000119	.0000248	.0000466
6					.0000002	.0000005	.0000013	.0000027
7							.0000001	.0000001

c \ p	.009	.010
1	.3578905	.3888828
2	.0721486	.0864106
3	.0098678	.0130840
4	.0010065	.0014801
5	.0000810	.0001322
6	.0000053	.0000097
7	.0000003	.0000006

n = 50

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0487944	.0952532	.1394860	.1815975	.2216874	.2598509	.2961787	.3307574
2	.0011865	.0045972	.0100206	.0172597	.0261315	.0364658	.0481047	.0609014
3	.0000189	.0001461	.0004762	.0010899	.0020555	.0034300	.0053601	.0078831
4	.0000002	.0000034	.0000167	.0000509	.0001198	.0002395	.0004277	.0007054
5		.0000001	.0000005	.0000019	.0000055	.0000132	.0000274	.0000514
6				.0000001	.0000002	.0000006	.0000014	.0000031
7							.0000001	.0000003

c \ p	.009	.010
1	.3636695	.3949939
2	.0747203	.0894353
3	.0104283	.0138173
4	.0010862	.0015962
5	.0000893	.0001457
6	.0000060	.0000109
7	.0000003	.0000007

$$P(c,r,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 51

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0497456	.0970627	.1420676	.1848712	.2255700	.2642918	.3011054	.3361113
2	.0012341	.0047785	.0104090	.0179171	.0271093	.0378062	.0498412	.0630603
3	.0000201	.0001550	.0005048	.0011546	.0021759	.0036282	.0055600	.0080097
4	.0000002	.0000037	.0000181	.0000551	.0001295	.0002586	.0004615	.0007584
5		.0000001	.0000005	.0000021	.0000061	.0000145	.0000302	.0000567
6				.0000001	.0000002	.0000007	.0000016	.0000035
7							.0000001	.0000003

c/p	.009	.010
1	.3693965	.4010440
2	.0773208	.0924909
3	.0110070	.0145735
4	.0011703	.0017184
5	.0000983	.0001602
6	.0000068	.0000122
7	.0000004	.0000008

n = 52

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0506958	.0988686	.1446414	.1881317	.2294511	.2687060	.3059977	.3414224
2	.0012826	.0049631	.0108039	.0185849	.0281017	.0391651	.0516001	.0653447
3	.0000213	.0001643	.0005346	.0012216	.0023006	.0038333	.0058700	.0084501
4	.0000003	.0000040	.0000195	.0000595	.0001397	.0002788	.0004972	.0008164
5		.0000001	.0000006	.0000023	.0000067	.0000160	.0000332	.0000623
6				.0000001	.0000003	.0000007	.0000018	.0000039
7							.0000001	.0000002
8								

c/p	.009	.010
1	.3750719	.4070336
2	.0799495	.0955764
3	.0116038	.0153526
4	.0012588	.0018469
5	.0001079	.0001758
6	.0000076	.0000137
7	.0000004	.0000009
8		.0000001

n = 53

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0516451	.1006708	.1473075	.1913791	.2333039	.2730938	.3108557	.3466910
2	.0013320	.0051509	.0112054	.0192631	.0291084	.0405423	.0533808	.0674541
3	.0000236	.0001739	.0005654	.0012911	.0024296	.0040453	.0061901	.0089045
4	.0000003	.0000043	.0000211	.0000641	.0001505	.0003001	.0005348	.0008775
5		.0000001	.0000006	.0000025	.0000073	.0000176	.0000365	.0000683
6				.0000001	.0000003	.0000008	.0000020	.0000044
7							.0000001	.0000008
8								

c/p	.009	.010
1	.3806963	.4129632
2	.0826056	.0986910
3	.0122189	.0161549
4	.0013519	.0019820
5	.0001183	.0001925
6	.0000085	.0000153
7	.0000005	.0000010
8		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 54

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0525935	.1024695	.1497658	.1946136	.2371373	.2774552	.3156797	.3519175
2	.0013823	.0053419	.0116135	.0199515	.0301204	.0419376	.0551012	.0696080
3	.0000236	.0001838	.0005973	.0013630	.0025630	.0042643	.0065204	.0093728
4	.0000003	.0000047	.0000227	.0000690	.0001619	.0003226	.0005744	.0009417
5		.0000001	.0000007	.0000028	.0000081	.0000193	.0000400	.0000748
6				.0000001	.0000003	.0000009	.0000023	.0000049
7							.0000001	.0000003
8								

c \ p	.009	.010
1	.3863700	.4188336
2	.0852884	.1018337
3	.0128524	.0169902
4	.0014497	.0021837
5	.0001294	.0002104
6	.0000095	.0000171
7	.0000006	.0000012
8		.0000001

n = 55

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0535409	.1042645	.1523165	.1978352	.2409516	.2817905	.3204699	.3571022
2	.0014335	.0055362	.0120379	.0206502	.0311644	.0433507	.0570066	.0719459
3	.0000252	.0001942	.0006303	.0014373	.0027008	.0044903	.0066611	.0093554
4	.0000003	.0000050	.0000244	.0000742	.0001739	.0003463	.0006160	.0010091
5		.0000001	.0000007	.0000030	.0000088	.0000211	.0000437	.0000817
6				.0000001	.0000004	.0000011	.0000025	.0000054
7							.0000001	.0000003
8								

c \ p	.009	.010
1	.3917936	.4246453
2	.0879972	.1050037
3	.0135043	.0178288
4	.0015523	.0022723
5	.0001413	.0002295
6	.0000106	.0000190
7	.0000007	.0000013
8		.0000001

n = 56

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0544874	.1060560	.1540596	.2010438	.2447469	.2860998	.3252267	.3622453
2	.0014856	.0057336	.0124488	.0213589	.0322134	.0447814	.0588509	.0743871
3	.0000266	.0002044	.0006645	.0015142	.0028431	.0047235	.0071121	.0103521
4	.0000004	.0000054	.0000263	.0000796	.0001865	.0003711	.0006597	.0010799
5		.0000001	.0000008	.0000033	.0000097	.0000230	.0000477	.0000891
6				.0000001	.0000004	.0000018	.0000028	.0000060
7						.0000001	.0000001	.0000003
8								

c \ p	.009	.010
1	.3972674	.4303988
2	.0907314	.1082001
3	.0141747	.0187005
4	.0016599	.0024279
5	.0001540	.0002499
6	.0000117	.0000212
7	.0000008	.0000015
8		.0000001

$$P(o,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 57

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0554389	.1078439	.1573950	.2042397	.2485238	.2903832	.3299501	.3673474
2	.0015386	.0059143	.0128760	.0220777	.0333760	.0462293	.0607155	.0765313
3	.0000281	.0002159	.0006999	.0015936	.0029900	.0049638	.0075735	.0108631
4	.0000004	.0000058	.0000288	.0000854	.0001998	.0003972	.0007056	.0011541
5		.0000001	.0000009	.0000036	.0000105	.0000251	.0000520	.0000971
6				.0000001	.0000005	.0000013	.0000031	.0000067
7						.0000001	.0000003	.0000004
8								

c\p	.009	.010
1	.4026920	.4360948
2	.0934902	.1114221
3	.0148637	.0195955
4	.0017725	.0025906
5	.0001675	.0002717
6	.0000130	.0000234
7	.0000008	.0000017
8		.0000001

n = 58

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0563774	.1096282	.1599228	.2074227	.2522805	.2946409	.3346404	.3724086
2	.0015925	.0061381	.0133096	.0228063	.0343523	.0476942	.0626002	.0788578
3	.0000296	.0002273	.0007364	.0016755	.0031414	.0052114	.0079455	.0113884
4	.0000004	.0000062	.0000302	.0000914	.0002138	.0004246	.0007537	.0012318
5		.0000001	.0000010	.0000039	.0000115	.0000273	.0000566	.0001055
6				.0000001	.0000005	.0000014	.0000035	.0000074
7						.0000001	.0000002	.0000004
8								

c\p	.009	.010
1	.4080678	.4417339
2	.0962730	.1146689
3	.0155714	.0205138
4	.0018904	.0027606
5	.0001820	.0003049
6	.0000144	.0000259
7	.0000010	.0000019
8	.0000001	.0000001

n = 59

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0573211	.1114089	.1624431	.2105930	.2560101	.2988730	.3392979	.3774893
2	.0016473	.0063451	.0137494	.0235448	.0354419	.0491759	.0645044	.0811062
3	.0000312	.0002392	.0007741	.0017600	.0033975	.0054663	.0080261	.0111982
4	.0000004	.0000067	.0000323	.0000977	.0002884	.0004534	.0008040	.0013130
5		.0000001	.0000011	.0000043	.0000135	.0000297	.0000614	.0001145
6				.0000002	.0000006	.0000016	.0000039	.0000083
7						.0000001	.0000002	.0000005
8								

c\p	.009	.010
1	.4133958	.4473165
2	.0990792	.1179395
3	.0162977	.0214553
4	.0020135	.0029362
5	.0001973	.0003196
6	.0000159	.0000286
7	.0000011	.0000022
8	.0000001	.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 60

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0582637	.1131861	.1649557	.2137506	.2597390	.3030798	.3439229	.3824099
2	.0017030	.0065552	.0141958	.0242930	.0365448	.0506741	.0664880	.0835760
3	.0000388	.0002514	.0008131	.0018478	.0034502	.0057366	.0087214	.0124824
4	.0000005	.0000071	.0000345	.0001044	.0002438	.0004834	.0008567	.0013979
5		.0000002	.0000012	.0000047	.0000136	.0000323	.0000666	.0001241
6				.0000002	.0000006	.0000018	.0000043	.0000091
7						.0000001	.0000002	.0000006
8								

c/p	.009	.010
1	.4186746	.4538434
2	.1019080	.1212333
3	.0170487	.0224208
4	.0021491	.0031233
5	.0002137	.0003458
6	.0000175	.0000315
7	.0000013	.0000024
8	.0000001	.0000002

n = 61

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0592055	.1149598	.1674609	.2168956	.2634403	.3072613	.3485154	.3873506
2	.0017596	.0067685	.0146478	.0250508	.0376608	.0521085	.0683705	.0859666
3	.0000345	.0002640	.0008539	.0019370	.0036236	.0059983	.0091853	.0130812
4	.0000008	.0000076	.0000369	.0001114	.0002598	.0005149	.0009117	.0014866
5		.0000002	.0000013	.0000051	.0000147	.0000350	.0000728	.0001343
6				.0000002	.0000007	.0000020	.0000047	.0000100
7						.0000001	.0000003	.0000006
8								

c/p	.009	.010
1	.4239066	.4583149
2	.1047589	.1245494
3	.0178065	.0234083
4	.0022762	.0033163
5	.0002310	.0003735
6	.0000193	.0000347
7	.0000014	.0000027
8	.0000001	.0000002

n = 62

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0601463	.1167398	.1699505	.2200281	.2671231	.3114177	.3530758	.3922518
2	.0018170	.0069848	.0151062	.0258102	.0387697	.0537189	.0703315	.0883777
3	.0000368	.0002770	.0008946	.0020294	.0037938	.0062754	.0095400	.0136345
4	.0000005	.0000081	.0000393	.0001187	.0002766	.0005478	.0009692	.0015791
5		.0000002	.0000014	.0000055	.0000160	.0000379	.0000780	.0001451
6				.0000002	.0000008	.0000022	.0000052	.0000110
7						.0000001	.0000003	.0000007
8								

c/p	.009	.010
1	.4290914	.4637318
2	.1076313	.1278870
3	.0185891	.0244197
4	.0024159	.0035172
5	.0002495	.0004030
6	.0000218	.0000381
7	.0000015	.0000030
8	.0000001	.0000000

$$P(o,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 63

o/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0610861	.1184964	.1724486	.2231479	.2707875	.3155492	.3576043	.3971138
2	.0018753	.0072043	.0155708	.0265950	.0399313	.0552651	.0721107	.0900087
3	.0000380	.0002904	.0009372	.0021846	.0039668	.0065601	.0099656	.0143384
4	.0000006	.0000087	.0000419	.0001263	.0002942	.0005882	.0010898	.0018756
5		.0000002	.0000015	.0000059	.0000173	.0000409	.0000843	.0001566
6				.0000002	.0000008	.0000024	.0000057	.0000121
7						.0000001	.0000003	.0000008
8								

o/p	.009	.010
1	.4342296	.4690945
2	.1105244	.1318455
3	.0193005	.0254544
4	.0025615	.0037262
5	.0002680	.0004341
6	.0000233	.0000417
7	.0000017	.0000034
8	.0000001	.0000002

n = 64

o/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0630250	.1202594	.1749313	.2263554	.2744316	.3196559	.3621010	.4019369
2	.0019345	.0074269	.0160414	.0273812	.0410856	.0568268	.0743077	.0932591
3	.0000398	.0003042	.0009811	.0023224	.0044486	.0075523	.0118020	.0172430
4	.0000006	.0000092	.0000446	.0001343	.0003186	.0006180	.0010918	.0017760
5		.0000002	.0000016	.0000064	.0000186	.0000442	.0000909	.0001688
6				.0000003	.0000009	.0000026	.0000062	.0000130
7						.0000001	.0000004	.0000009
8								

o/p	.009	.010
1	.4393815	.4744035
2	.1134378	.1346840
3	.0202107	.0265123
4	.0027130	.0039435
5	.0002896	.0004670
6	.0000255	.0000456
7	.0000019	.0000031
8	.0000001	.0000003

n = 65

o/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0634630	.1180189	.1774065	.2293503	.2780614	.3237380	.3665663	.4067814
2	.0019946	.0076526	.0165181	.0281767	.0422523	.0584018	.0763283	.0957806
3	.0000417	.0003185	.0010263	.0023231	.0043333	.0071501	.0108493	.0154784
4	.0000006	.0000098	.0000474	.0001427	.0003318	.0006554	.0011569	.0018806
5		.0000002	.0000017	.0000069	.0000201	.0000476	.0000979	.0001816
6			.0000001	.0000003	.0000010	.0000028	.0000068	.0000145
7						.0000001	.0000004	.0000010
8								.0000001

o/p	.009	.010
1	.4443676	.4796595
2	.1163707	.1380218
3	.0210497	.0275934
4	.0028704	.0041692
5	.0003114	.0005018
6	.0000279	.0000498
7	.0000021	.0000048
8	.0000001	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 66

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0619000	.1337748	.1798748	.2324329	.2816711	.3277956	.3710004	.4114676
2	.0030556	.0078813	.0170007	.0330014	.0543514	.0799958	.1083540	.1392165
3	.0000437	.0003331	.0010738	.0028265	.0059290	.0107596	.0174076	.0261144
4	.0000007	.0000104	.0000503	.0001514	.0003518	.0006944	.0012848	.0021893
5		.0000003	.0000019	.0000075	.0000217	.0000513	.0001051	.0001958
6			.0000001	.0000003	.0000011	.0000031	.0000078	.0000158
7						.0000002	.0000005	.0000011
8								.0000001

c/p	.009	.010
1	.4493683	.4848620
2	.1193287	.1414381
3	.0219076	.0286977
4	.0030340	.0044035
5	.0003344	.0005305
6	.0000304	.0000544
7	.0000023	.0000046
8	.0000008	.0000003

n = 67

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0648341	.1355873	.1823346	.2355033	.2856830	.3330388	.3754034	.4161759
2	.0031175	.0081131	.0174894	.0337953	.0566286	.0864095	.1227769	.1667118
3	.0000457	.0003488	.0011200	.0025327	.0047174	.0077742	.0118954	.0173103
4	.0000007	.0000111	.0000534	.0001605	.0003786	.0007350	.0013054	.0021093
5		.0000003	.0000020	.0000080	.0000333	.0000551	.0001132	.0003096
6			.0000001	.0000003	.0000012	.0000034	.0000081	.0000178
7					.0000001	.0000002	.0000005	.0000013
8								.0000001

c/p	.009	.010
1	.4543240	.4900143
2	.1288911	.1448724
3	.0317843	.0398251
4	.0038039	.0046464
5	.0003587	.0005771
6	.0000331	.0000592
7	.0000026	.0000051
8	.0000003	.0000004

n = 68

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0657713	.1372762	.1847876	.2385612	.2888364	.3358378	.3797755	.4208465
2	.0031803	.0083479	.0179839	.0340181	.0580258	.0903240	.1308675	.1793461
3	.0000477	.0003638	.0011697	.0026418	.0049170	.0080978	.0123573	.0178438
4	.0000008	.0000118	.0000566	.0001700	.0003944	.0007773	.0013647	.0022197
5		.0000003	.0000022	.0000087	.0000251	.0000598	.0001214	.0002347
6			.0000001	.0000004	.0000013	.0000037	.0000089	.0000188
7					.0000001	.0000002	.0000005	.0000013
8								.0000001

c/p	.009	.010
1	.4593351	.4951141
2	.1353814	.1483238
3	.0336795	.0429756
4	.0041801	.0054902
5	.0003843	.0006178
6	.0000341	.0000644
7	.0000024	.0000057
8	.0000002	.0000004

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 69

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0667055	.1290217	.1872333	.2416069	.2923923	.3398228	.3841171	.4254797
2	.0022438	.0085858	.0184843	.0314498	.0470408	.0648597	.0845487	.1057870
3	.0000499	.0003797	.0012301	.0027537	.0051215	.0084296	.0127488	.0181293
4	.0000008	.0000125	.0000599	.0001799	.0004170	.0008212	.0014450	.0023415
5		.0000003	.0000023	.0000093	.0000269	.0000635	.0001302	.0002407
6			.0000001	.0000004	.0000014	.0000040	.0000097	.0000204
7					.0000001	.0000002	.0000006	.0000015
8								.0000001

c \ p	.009	.010
1	.4641020	.5001630
2	.1282870	.1517917
3	.0215943	.0321491
4	.0035628	.0051590
5	.0004113	.0006606
6	.0000392	.0000699
7	.0000032	.0000063
8	.0000002	.0000005

n = 70

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0676388	.1307636	.1895716	.2446405	.2959303	.3437839	.3884283	.4300759
2	.0023082	.0088267	.0189905	.0322905	.0488676	.0685094	.0908457	.1083445
3	.0000521	.0003962	.0012719	.0032885	.0069311	.0127672	.0132514	.0188305
4	.0000009	.0000132	.0000634	.0001901	.0004405	.0009668	.0015241	.0024678
5		.0000003	.0000025	.0000100	.0000289	.0000680	.0001394	.0002575
6			.0000001	.0000004	.0000016	.0000044	.0000105	.0000222
7					.0000001	.0000002	.0000007	.0000016
8								.0000001

c \ p	.009	.010
1	.4689251	.5051613
2	.1313093	.1552754
3	.0255276	.0333455
4	.0037521	.0054289
5	.0004397	.0007056
6	.0000426	.0000758
7	.0000035	.0000069
8	.0000002	.0000005

n = 71

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0685712	.1325021	.1921028	.2476619	.2994507	.3477212	.3927093	.4346353
2	.0023736	.0090705	.0195026	.0331399	.0495059	.0681731	.0887581	.1109183
3	.0000543	.0004130	.0013251	.0029861	.0055458	.0091136	.0137652	.0195466
4	.0000009	.0000140	.0000670	.0002009	.0004650	.0009142	.0016062	.0025987
5		.0000004	.0000027	.0000107	.0000309	.0000728	.0001491	.0002751
6			.0000001	.0000005	.0000017	.0000048	.0000114	.0000241
7					.0000001	.0000003	.0000007	.0000018
8								.0000001

c \ p	.009	.010
1	.4737047	.5101097
2	.1343478	.1587743
3	.0264796	.0345648
4	.0039481	.0057080
5	.0004695	.0007528
6	.0000461	.0000821
7	.0000038	.0000076
8	.0000003	.0000006

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 72

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0695026	.1342371	.1945262	.2506713	.3029534	.3516348	.3969603	.4391582
2	.0024398	.0093174	.0200204	.0339979	.0507556	.0698504	.0908858	.1135081
3	.0000566	.0004303	.0013796	.0031068	.0057656	.0094680	.0142901	.0202776
4	.0000010	.0000148	.0000708	.0002120	.0004904	.0009634	.0016913	.0027348
5		.0000004	.0000029	.0000115	.0000331	.0000779	.0001593	.0002937
6			.0000001	.0000005	.0000018	.0000052	.0000124	.0000261
7					.0000001	.0000003	.0000008	.0000020
8								.0000001

c \ p	.009	.010
1	.4784414	.5150086
2	.1374020	.1422876
3	.0274504	.0356069
4	.0041509	.0059966
5	.0005008	.0008024
6	.0000499	.0000888
7	.0000042	.0000083
8	.0000003	.0000007

n = 73

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0704331	.1359686	.1969427	.2536686	.3064386	.3555250	.4011816	.4436449
2	.0025064	.0095672	.0205439	.0348646	.0520166	.0715411	.0930283	.1161133
3	.0000590	.0004481	.0014355	.0032303	.0059905	.0098303	.0148263	.0210835
4	.0000010	.0000156	.0000747	.0002236	.0005167	.0010145	.0017795	.0028746
5		.0000004	.0000031	.0000123	.0000354	.0000832	.0001700	.0003133
6			.0000001	.0000006	.0000020	.0000056	.0000134	.0000282
7					.0000001	.0000003	.0000009	.0000022
8							.0000001	.0000001
9								

c \ p	.009	.010
1	.4831354	.5198585
2	.1404714	.1658148
3	.0284400	.0370717
4	.0043606	.0062947
5	.0005336	.0008543
6	.0000540	.0000960
7	.0000046	.0000091
8	.0000003	.0000008
9		.0000001

n = 74

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0713627	.1376967	.1993518	.2564539	.3092064	.3593919	.4053733	.4480957
2	.0025747	.0098200	.0210731	.0357399	.0532887	.0732450	.0951854	.1187335
3	.0000615	.0004663	.0014928	.0033569	.0062207	.0102005	.0153737	.0217842
4	.0000011	.0000165	.0000788	.0002356	.0005441	.0010673	.0018708	.0030198
5		.0000005	.0000033	.0000131	.0000378	.0000880	.0001812	.0003337
6			.0000001	.0000006	.0000022	.0000061	.0000145	.0000305
7					.0000001	.0000004	.0000010	.0000024
8							.0000001	.0000003
9								

c \ p	.009	.010
1	.4877872	.5246600
2	.1415554	.1693553
3	.0294483	.0383591
4	.0045773	.0066025
5	.0005681	.0009087
6	.0000583	.0001035
7	.0000051	.000001
8	.0000004	.000000
9		.0000001

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 75

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0722913	.1394213	.2017538	.2596273	.3133569	.3632355	.4095357	.4525110
2	.0026435	.0100758	.0216079	.0366235	.0545718	.0749619	.0973567	.1213684
3	.0000640	.0004850	.0015516	.0034864	.0064560	.0105788	.0159324	.0225598
4	.0000011	.0000174	.0000831	.0002481	.0005725	.0011221	.0019653	.0031699
5		.0000005	.0000035	.0000140	.0000403	.0000947	.0001931	.0003858
6			.0000001	.0000007	.0000023	.0000066	.0000157	.0000329
7					.0000001	.0000004	.0000011	.0000026
8							.0000001	.0000003
9								

c\r	.009	.010
1	.4923071	.5294134
2	.1466535	.1729083
3	.0304752	.0396691
4	.0048011	.0069200
5	.0006042	.0009657
6	.0000629	.0001116
7	.0000056	.0000110
8	.0000004	.0000009
9		.0000001

n = 76

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0732190	.1411424	.2041485	.2625888	.3167901	.3670561	.4136690	.4568909
2	.0027132	.0103345	.0221484	.0375155	.0558657	.0766915	.0995420	.1240176
3	.0000666	.0005042	.0016117	.0036182	.0066966	.0109651	.0165023	.0233502
4	.0000012	.0000183	.0000875	.0002610	.0006019	.0011759	.0020631	.0033250
5		.0000005	.0000038	.0000149	.0000430	.0001008	.0002055	.0003778
6			.0000001	.0000007	.0000025	.0000071	.0000169	.0000355
7					.0000001	.0000004	.0000012	.0000028
8							.0000001	.0000003
9								

c\p	.009	.010
1	.4969655	.5341192
2	.1497652	.1764734
3	.0331208	.0410015
4	.0050322	.0072475
5	.0006419	.0010252
6	.0000670	.0001201
7	.0000061	.0000120
8	.0000005	.0000010
9		.0000001

n = 77

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0741458	.1428602	.2065361	.2655385	.3202062	.3708538	.4177733	.4612358
2	.0027837	.0105961	.0226944	.0384158	.0571704	.0784337	.1017408	.1266906
3	.0000698	.0005239	.0016734	.0037545	.0069484	.0113595	.0170836	.0241556
4	.0000013	.0000193	.0000920	.0002745	.0006324	.0012376	.0021642	.0034852
5		.0000006	.0000040	.0000159	.0000458	.0001073	.0002185	.0004013
6			.0000001	.0000008	.0000027	.0000077	.0000182	.0000382
7					.0000001	.0000005	.0000013	.0000031
8							.0000001	.0000003
9								

c\r	.009	.010
1	.5014928	.5387780
2	.1526000	.1800498
3	.0325850	.0423562
4	.0052706	.0075851
5	.0006814	.0010874
6	.0000729	.0001292
7	.0000066	.0000130
8	.0000005	.0000011
9		.0000001

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 78

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0750717	.1445744	.2089165	.2684763	.3236051	.3746286	.4218489	.4655459
2	.0028550	.0108606	.0232459	.0393243	.0584855	.0801882	.1039531	.1293570
3	.0000719	.0005440	.0017364	.0038932	.0071936	.0117619	.0176762	.0249758
4	.0000013	.0000203	.0000968	.0002884	.0006639	.0012983	.0022686	.0036506
5		.0000006	.0000043	.0000170	.0000487	.0001141	.0002321	.0004260
6			.0000002	.0000008	.0000029	.0000083	.0000196	.0000411
7					.0000002	.0000005	.0000014	.0000034
8							.0000001	.0000002
9								

c/p	.009	.010
1	.5059794	.5433903
2	.1560274	.1836371
3	.0336676	.0437331
4	.0055164	.0079328
5	.0007287	.0011524
6	.0000784	.0001388
7	.0000072	.0000142
8	.0000006	.0000013
9		.0000001

n = 79

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0759966	.1462853	.2112897	.2714024	.3269871	.3783809	.4258859	.4698215
2	.0029273	.0111281	.0238029	.0402409	.0598111	.0819549	.1061783	.1320465
3	.0000747	.0005647	.0018010	.0040349	.0074500	.0121725	.0182802	.0258108
4	.0000014	.0000213	.0001017	.0003028	.0006966	.0013611	.0023765	.0038212
5		.0000006	.0000046	.0000180	.0000518	.0001212	.0002464	.0004518
6			.0000002	.0000009	.0000032	.0000089	.0000211	.0000442
7					.0000002	.0000006	.0000015	.0000037
8							.0000001	.0000003
9								

c/p	.009	.010
1	.5104256	.5479563
2	.1591770	.1872346
3	.0347690	.0451322
4	.0057698	.0082908
5	.0007650	.0012202
6	.0000842	.0001489
7	.0000079	.0000154
8	.0000006	.0000014
9		.0000001

n = 80

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0769206	.1479927	.2136558	.2743168	.3303522	.3821106	.4299147	.4740625
2	.0030003	.0113984	.0243654	.0411656	.0611470	.0837334	.1084164	.1347487
3	.0000776	.0005858	.0018670	.0041797	.0077118	.0125912	.0188954	.0266607
4	.0000015	.0000224	.0001068	.0003177	.0007303	.0014260	.0024878	.0039971
5		.0000007	.0000048	.0000192	.0000550	.0001286	.0002613	.0004788
6			.0000002	.0000010	.0000034	.0000096	.0000227	.0000475
7					.0000002	.0000006	.0000017	.0000040
8							.0000001	.0000003
9								

c/p	.009	.010
1	.5148318	.5524768
2	.1623382	.1908419
3	.0358887	.0465532
4	.0060308	.0086592
5	.0008109	.0012909
6	.0000904	.0001596
7	.0000086	.0000168
8	.0000007	.0000015
9	.0000001	.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 61

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0778437	.1496967	.2160149	.2772195	.3337004	.3858179	.4339052	.4782704
2	.0030743	.0116716	.0249332	.0420982	.0624931	.0855237	.1106669	.1374632
3	.0000805	.0006074	.0019345	.0043277	.0079790	.0130180	.0195221	.0275254
4	.0000016	.0000235	.0001121	.0003332	.0007653	.0014930	.0026026	.0041784
5		.0000007	.0000052	.0000204	.0000584	.0001364	.0002769	.0005069
6			.0000002	.0000010	.0000037	.0000103	.0000244	.0000509
7					.0000002	.0000007	.0000018	.0000043
8							.0000001	.0000003
9								

c \ p	.009	.010
1	.5191983	.5569520
2	.1655106	.1944582
3	.0370267	.0479961
4	.0062085	.0090381
5	.0008579	.0013646
6	.0000968	.0001709
7	.0000093	.0000182
8	.0000008	.0000017
9	.0000001	.0000001

n = 62

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0787658	.1513973	.2183668	.2801106	.3370319	.3895030	.4378679	.4824443
2	.0031490	.0119476	.0255065	.0430387	.0638491	.0873254	.1129295	.1401897
3	.0000835	.0006295	.0020034	.0044787	.0082516	.0134531	.0201601	.0284049
4	.0000016	.0000247	.0001175	.0001492	.0008013	.0015621	.0027211	.0043658
5		.0000008	.0000055	.0000216	.0000619	.0001445	.0002931	.0005363
6			.0000002	.0000011	.0000040	.0000111	.0000261	.0000546
7					.0000002	.0000007	.0000020	.0000047
8							.0000001	.0000004
9								

c \ p	.009	.010
1	.5235255	.5613825
2	.1686938	.1980832
3	.0381831	.0494607
4	.0065760	.0094277
5	.0009069	.0014413
6	.0001037	.0001829
7	.0000101	.0000197
8	.0000008	.0000018
9	.0000001	.0000002

n = 83

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0796871	.1530946	.2207117	.2829902	.3403468	.3931660	.4418028	.4865847
2	.0032244	.0122265	.0260851	.0439869	.0652150	.0891385	.1153041	.1429277
3	.0000865	.0006532	.0020740	.0046330	.0085296	.0138963	.0208095	.0292998
4	.0000017	.0000259	.0001238	.0001657	.0008386	.0016335	.0028431	.0045575
5		.0000008	.0000058	.0000229	.0000656	.0001531	.0003101	.0005669
6			.0000002	.0000012	.0000042	.0000119	.0000280	.0000584
7				.0000001	.0000002	.0000008	.0000021	.0000051
8							.0000001	.0000004
9								

c \ p	.009	.010
1	.5270138	.5657687
2	.1718873	.2017161
3	.0393577	.0509469
4	.0068605	.0098200
5	.0009579	.0015212
6	.0001109	.0001955
7	.0000109	.0000214
8	.0000009	.0000020
9	.0000001	.0000002

$$P(c,n,p) = \sum_{r}^{n} \binom{n}{r} p^{r} (1-p)^{n-r}$$

n = 84

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0806074	.1547884	.2230496	.2858582	.3436450	.3968070	.4457102	.4906920
2	.0033011	.0125082	.0266689	.0449430	.0665907	.0909627	.1174903	.1456770
3	.0000897	.0006753	.0021460	.0047904	.0088130	.0143477	.0214703	.0302068
4	.0000018	.0000272	.0001291	.0003828	.0008770	.0017070	.0029689	.0047554
5		.0000009	.0000062	.0000243	.0000695	.0001619	.0003279	.0005988
6			.0000002	.0000013	.0000045	.0000127	.0000300	.0000625
7				.0000001	.0000003	.0000008	.0000023	.0000055
8							.0000002	.0000004
9								

c/p	.009	.010
1	.5320634	.5701110
2	.1750906	.2053567
3	.0405504	.0584546
4	.0071530	.0102392
5	.0010110	.0016043
6	.0001185	.0002087
7	.0000118	.0000231
8	.0000010	.0000022
9	.0000001	.0000002

n = 85

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0815268	.1564788	.2253804	.2887148	.3469268	.4004263	.4495902	.4947665
2	.0033784	.0127928	.0272581	.0459066	.0679759	.0927977	.1197878	.1484371
3	.0000939	.0006990	.0022196	.0049510	.0091019	.0148074	.0221424	.0311320
4	.0000019	.0000285	.0001351	.0004004	.0009167	.0017829	.0030984	.0049591
5		.0000009	.0000065	.0000257	.0000735	.0001712	.0003463	.0006321
6			.0000003	.0000014	.0000049	.0000136	.0000321	.0000668
7				.0000001	.0000003	.0000009	.0000025	.0000060
8						.0000001	.0000002	.0000005
9								

c/p	.009	.010
1	.5362749	.5744099
2	.1783034	.2090042
3	.0417613	.0598836
4	.0074536	.0106614
5	.0010663	.0016906
6	.0001266	.0002327
7	.0000128	.0000250
8	.0000011	.0000024
9	.0000001	.0000002

n = 86

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0824453	.1581658	.2277043	.2913600	.3501922	.4048236	.4554431	.4930084
2	.0034566	.0130802	.0278525	.0468778	.0693707	.0946435	.1220964	.1512077
3	.0000962	.0007232	.0022947	.0051148	.0093963	.0152754	.0228259	.0320704
4	.0000020	.0000298	.0001414	.0004186	.0009576	.0018610	.0032317	.0051684
5		.0000010	.0000069	.0000272	.0000777	.0001809	.0003656	.0006667
6			.0000003	.0000015	.0000052	.0000145	.0000343	.0000713
7				.0000001	.0000003	.0000010	.0000027	.0000065
8						.0000001	.0000002	.0000005
9								

c/p	.009	.010
1	.5404484	.5786658
2	.1815251	.2186583
3	.0429902	.0555338
4	.0077623	.0110946
5	.0011338	.0017803
6	.0001350	.0002373
7	.0000138	.0000269
8	.0000012	.0000027
9	.0000001	.0000002

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 87

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0811628	.1598495	.2300212	.2943937	.3534412	.4075095	.4572690	.5028179
2	.0035355	.0133704	.0284520	.0478566	.0707748	.0964998	.1244159	.1539885
3	.0000995	.0007479	.0023713	.0052819	.0096961	.0157516	.0235208	.0330235
4	.0000021	.0000312	.0001478	.0004374	.0009998	.0019415	.0033689	.0053837
5		.0000010	.0000073	.0000299	.0000821	.0001910	.0003857	.0007027
6			.0000003	.0000016	.0000056	.0000155	.0000366	.0000761
7				.0000001	.0000003	.0000011	.0000029	.0000070
8						.0000001	.0000002	.0000006
9								

c\p	.009	.010
1	.5445844	.5828791
2	.1847555	.2163163
3	.0442370	.0571051
4	.0086794	.0115390
5	.0014835	.0018735
6	.0001439	.0002528
7	.0000149	.0000290
8	.0000013	.0000029
9	.0000001	.0000003

n = 88

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0842794	.1615298	.2323311	.2972161	.3566740	.4111539	.4610681	.5067954
2	.0036154	.0136633	.0290567	.0488427	.0721881	.0983564	.1267458	.1567792
3	.0001030	.0007731	.0024496	.0054522	.0100015	.0162361	.0242271	.0339912
4	.0000022	.0000326	.0001545	.0004568	.0010433	.0020844	.0035100	.0056048
5		.0000011	.0000077	.0000304	.0000867	.0002015	.0004066	.0007402
6			.0000003	.0000017	.0000060	.0000166	.0000390	.0000811
7				.0000001	.0000003	.0000013	.0000032	.0000076
8						.0000001	.0000002	.0000006
9								

c\p	.009	.010
1	.5486e-11	.5870503
2	.1079e-09	.2199840
3	.0455e-17	.0586972
4	.0044048	.0119947
5	.0012456	.0019701
6	.0001533	.0002690
7	.0000161	.0000313
8	.0000015	.0000032
9	.0000001	.0000003

n = 89

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0851953	.1632067	.2346341	.3000273	.3598906	.4146869	.4648407	.5107410
2	.0036960	.0139590	.0296665	.0498362	.0736106	.1002431	.1290861	.1595793
3	.0001065	.0007989	.0025294	.0056257	.0103124	.0167289	.0244447	.0349735
4	.0000023	.0000341	.0001614	.0004767	.0010881	.0021097	.0036550	.0058319
5		.0000012	.0000082	.0000321	.0000915	.0002124	.0004285	.0007791
6			.0000003	.0000018	.0000064	.0000177	.0000416	.0000864
7				.0000001	.0000004	.0000013	.0000034	.0000081
8						.0000001	.0000002	.0000007
9								

c\p	.009	.010
1	.5527450	.5911798
2	.1912401	.2236546
3	.0467841	.0603101
4	.0087387	.0124617
5	.0013100	.0020704
6	.0001631	.0002860
7	.0000173	.0000337
8	.0000016	.0000034
9	.0000001	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 90

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0861100	.1648803	.2369302	.3028272	.3630918	.4181988	.4685868	.5146851
2	.0037775	.0142575	.0302814	.0508370	.0750420	.1021298	.1314364	.1623886
3	.0001101	.0008252	.0026108	.0058026	.0106289	.0172299	.0256737	.0359704
4	.0000024	.0000356	.0001685	.0004973	.0011342	.0021974	.0038048	.0060650
5		.0000012	.0000086	.0000339	.0000965	.0002838	.0004509	.0008195
6			.0000004	.0000019	.0000068	.0000189	.0000443	.0000919
7				.0000001	.0000004	.0000014	.0000037	.0000088
8						.0000001	.0000003	.0000007
9								.0000001

c\p	.009	.010
1	.5567702	.5958680
2	.1944937	.2273299
3	.0480842	.0619435
4	.0090811	.0129402
5	.0013769	.0021743
6	.0001734	.0003038
7	.0000186	.0000362
8	.0000017	.0000037
9	.0000001	.0000003

n = 91

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0870230	.1665506	.2392194	.3056159	.3662757	.4216096	.4723067	.5185378
2	.0038599	.0145588	.0309014	.0518449	.0764822	.1040262	.1337964	.1652067
3	.0001137	.0008521	.0026938	.0059027	.0109510	.0177393	.0264148	.0369817
4	.0000025	.0000372	.0001758	.0005186	.0011817	.0022876	.0039571	.0063042
5		.0000013	.0000091	.0000368	.0001017	.0002356	.0004743	.0008615
6			.0000004	.0000020	.0000072	.0000201	.0000472	.0000977
7				.0000001	.0000004	.0000015	.0000040	.0000094
8						.0000001	.0000003	.0000008
9								.0000001

c\p	.009	.010
1	.5607593	.5993153
2	.1977542	.2310093
3	.0494019	.0635974
4	.0094321	.0134302
5	.0014462	.0022819
6	.0001843	.0003225
7	.0000200	.0000389
8	.0000019	.0000041
9	.0000002	.0000004

n = 92

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0879368	.1682175	.2415018	.3083934	.3694443	.4251595	.4760005	.5223695
2	.0039430	.0148628	.0315263	.0528600	.0779312	.1059322	.1361660	.1680334
3	.0001175	.0008795	.0027785	.0061662	.0113787	.0182571	.0271657	.0380075
4	.0000026	.0000388	.0001834	.0005404	.0012305	.0023803	.0041143	.0065497
5		.0000014	.0000096	.0000377	.0001071	.0002479	.0004987	.0009050
6			.0000004	.0000022	.0000077	.0000214	.0000501	.0001038
7				.0000001	.0000005	.0000016	.0000043	.0000101
8						.0000001	.0000003	.0000009
9								.0000001

c\p	.009	.010
1	.5647125	.6033222
2	.2010218	.2346923
3	.0507371	.0652715
4	.0097918	.0139119
5	.0015181	.0023934
6	.0001956	.0003421
7	.0000215	.0000417
8	.0000020	.0000044
9	.0000002	.0000004

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 93

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0886489	.1698810	.2437773	.3111598	.3725971	.4286085	.4796685	.5262104
2	.0040270	.0151695	.0321563	.0538822	.0793807	.1078475	.1385448	.1708688
3	.0001213	.0009075	.0028647	.0063530	.0116119	.0187831	.0279287	.0390477
4	.0000027	.0000405	.0001911	.0005629	.0013806	.0028755	.0052756	.0068013
5		.0000014	.0000101	.0000397	.0001127	.0002607	.0005240	.0009502
6			.0000004	.0000023	.0000082	.0000228	.0000533	.0001102
7				.0000001	.0000005	.0000017	.0000046	.0000109
8						.0000001	.0000003	.0000009
9								.0000001

c/p	.009	.010
1	.5686301	.6072890
2	.2042944	.2383786
3	.0520896	.0696657
4	.0101603	.0144453
5	.0015926	.0025088
6	.0002075	.0003626
7	.0000230	.0000447
8	.0000022	.0000048
9	.0000002	.0000005

n = 94

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0897600	.1715413	.2460459	.3139152	.3757341	.4320369	.4833108	.5300007
2	.0041118	.0154789	.0327911	.0549113	.0809548	.1097721	.1409327	.1737110
3	.0001258	.0009360	.0029526	.0065431	.0119508	.0193175	.0287030	.0401023
4	.0000028	.0000423	.0001992	.0005861	.0013324	.0025734	.0044418	.0070593
5	.0000001	.0000015	.0000107	.0000418	.0001185	.0002740	.0005503	.0009970
6			.0000005	.0000025	.0000087	.0000242	.0000566	.0001170
7				.0000001	.0000005	.0000018	.0000050	.0000117
8						.0000001	.0000004	.0000010
9								.0000001

c/p	.009	.010
1	.5735124	.6112161
2	.2075734	.2420677
3	.0534595	.0686798
4	.0105377	.0149705
5	.0016697	.0026282
6	.0002300	.0003841
7	.0000247	.0000479
8	.0000024	.0000052
9	.0000002	.0000005

n = 95

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0906703	.1731982	.2483078	.3166595	.3788555	.4354447	.4869877	.5337607
2	.0041975	.0157210	.0334309	.0559473	.0823292	.1117057	.1433894	.1765613
3	.0001292	.0009651	.0030481	.0067365	.0122953	.0198602	.0294886	.0411718
4	.0000030	.0000440	.0002074	.0006099	.0013855	.0026738	.0046111	.0073236
5	.0000001	.0000016	.0000112	.0000440	.0001246	.0002878	.0005775	.0010455
6			.0000005	.0000026	.0000093	.0000257	.0000609	.0001240
7				.0000001	.0000006	.0000019	.0000053	.0000125
8						.0000001	.0000004	.0000011
9								.0000001

c/p	.009	.010
1	.5763598	.6151039
2	.2108579	.2457592
3	.0548465	.0704137
4	.0109240	.0155076
5	.0017495	.0027516
6	.0002330	.0004066
7	.0000245	.0000513
8	.0000026	.0000056
9	.0000002	.0000005

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 96

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0915794	.1748518	.2505629	.3193929	.3819612	.4388320	.4905198	.5374906
2	.0042040	.0161058	.0340755	.0569901	.0838118	.1136401	.1457348	.1794189
3	.0001333	.0009948	.0031333	.0069334	.0126455	.0204113	.0302858	.0422343
4	.0000031	.0000459	.0002159	.0006344	.0014401	.0027770	.0047852	.0075944
5	.0000001	.0000017	.0000118	.0000463	.0001309	.0003031	.0006058	.0010957
6		.0000001	.0000005	.0000028	.0000099	.0000273	.0000637	.0001314
7				.0000001	.0000006	.0000021	.0000057	.0000134
8						.0000001	.0000004	.0000012
9								.0000001
10								

c\p	.009	.010
1	.5801726	.6189529
2	.2141474	.2494526
3	.0562504	.0721672
4	.0113193	.0160566
5	.0018320	.0028791
6	.0002467	.0004300
7	.0000283	.0000548
8	.0000028	.0000061
9	.0000002	.0000006
10		.0000001

n = 97

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0924800	.1765021	.2528112	.3 1153	.3850514	.4421990	.4940855	.5411907
2	.0043713	.0164233	.0347250	.0580 77	.0853026	.1155992	.1481480	.1822835
3	.0001374	.0010250	.0032261	.00713 3	.0130013	.0209707	.0310937	.0435516
4	.0000032	.0000478	.0002247	.0006596	.0014961	.0028828	.0049637	.0078717
5	.0000001	.0000018	.0000124	.0000486	.0001375	.0003170	.0006350	.0011477
6		.0000001	.0000006	.0000030	.0000105	.0000289	.0000674	.0001391
7				.0000002	.0000007	.0000022	.0000061	.0000144
8						.0000002	.0000005	.0000013
9								.0000001
10								

c\p	.009	.010
1	.5839510	.6227634
2	.2174416	.2531476
3	.0576717	.0739400
4	.0117237	.0166177
5	.0019174	.0030109
6	.0002610	.0004545
7	.0000303	.0000585
8	.0000031	.0000066
9	.0000003	.0000006
10		.0000001

n = 98

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0933954	.1781491	.2550528	.3248258	.3881261	.4455453	.4976869	.5448618
2	.0044504	.0167435	.0353793	.0590960	.0869013	.1175588	.1505696	.1851547
3	.0001417	.0010558	.0033206	.0073372	.0133628	.0215385	.0319130	.0444631
4	.0000034	.0000497	.0002337	.0006855	.0015531	.0029913	.0051466	.0081555
5	.0000001	.0000019	.0000131	.0000510	.0001442	.0003324	.0006653	.0013015
6		.0000001	.0000006	.0000031	.0000111	.0000306	.0000714	.0001478
7				.0000002	.0000007	.0000024	.0000065	.0000184
8						.0000002	.0000005	.0000014
9								.0000001
10								

c\p	.009	.010
1	.5876954	.6265357
2	.2207402	.2568438
3	.0591096	.0757321
4	.0121372	.0171910
5	.0020057	.0031470
6	.0002750	.0004801
7	.0000324	.0000625
8	.0000033	.0000071
9	.0000003	.0000007
10		.0000001

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 99

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0943022	.1797920	.2578876	.3275275	.3911855	.4488725	.5011435	.5485023
2	.0045483	.0170663	.0360383	.0601590	.0883079	.1195267	.1529990	.1880124
3	.0001460	.0010871	.0034168	.0075443	.0137300	.0221146	.0327436	.0455866
4	.0000035	.0000518	.0002429	.0007121	.0016127	.0031026	.0053340	.0084460
5	.0000001	.0000020	.0000137	.0000536	.0001513	.0003483	.0006967	.0012571
6		.0000001	.0000006	.0000033	.0000118	.0000324	.0000756	.0001556
7				.0000002	.0000008	.0000026	.0000070	.0000164
8						.0000002	.0000006	.0000015
9								.0000001
10								

c/p	.009	.010
1	.5914062	.6302704
2	.2240488	.2605407
3	.0605643	.0775432
4	.0125600	.0177764
5	.0020969	.0032874
6	.0002914	.0005067
7	.0000346	.0000667
8	.0000036	.0000076
9	.0000003	.0000008
10		.0000001

n = 100

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0952070	.1814732	.2595157	.3302174	.3942296	.4521793	.5046355	.5521143
2	.0046381	.0173918	.0367020	.0612284	.0898283	.1215028	.1554360	.1909161
3	.0001504	.0011191	.0035146	.0077547	.0141029	.0226991	.0335854	.0467261
4	.0000036	.0000538	.0002525	.0007394	.0016733	.0032167	.0055858	.0087431
5	.0000001	.0000031	.0000144	.0000562	.0001586	.0003649	.0007291	.0013146
6		.0000001	.0000007	.0000035	.0000185	.0000343	.0000799	.0001644
7				.0000002	.0000008	.0000028	.0000075	.0000175
8						.0000002	.0000006	.0000016
9								.0000001
10								

c/p	.009	.010
1	.5950835	.6339677
2	.2273491	.2642360
3	.0620386	.0793732
4	.0129930	.0183740
5	.0021910	.0034323
6	.0003077	.0005346
7	.0000369	.0000711
8	.0000038	.0000082
9	.0000004	.0000008
10		.0000001

n = 101

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0961126	.1830703	.2617372	.3328966	.3972584	.4554662	.5081031	.5556974
2	.0047286	.0177198	.0373705	.0623044	.0913443	.1234869	.1578804	.1938057
3	.0001549	.0011516	.0036142	.0079686	.0144815	.0233915	.0344384	.0478816
4	.0000038	.0000560	.0002623	.0007675	.0017354	.0033335	.0057883	.0090470
5	.0000001	.0000032	.0000151	.0000590	.0001668	.0003820	.0007627	.0013740
6		.0000001	.0000007	.0000038	.0000132	.0000363	.0000845	.0001736
7				.0000002	.0000009	.0000029	.0000080	.0000187
8					.0000001	.0000003	.0000009	.0000018
9								.0000001
10								

c/p	.009	.010
1	.5987278	.6376880
2	.2306587	.2679353
3	.0635234	.0812219
4	.0134334	.0189840
5	.0022882	.0035817
6	.0003246	.0005635
7	.0000393	.0000757
8	.0000041	.0000088
9	.0000004	.0000009
10		.0000001

$$P(c,n,p) = \sum_{x=0}^{c} \binom{n}{x} p^x (1-p)^{n-x}$$

n = 102

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0970165	.1847042	.2639520	.3355650	.4002721	.4587334	.5115464	.5592810
2	.0048200	.0180505	.0380436	.0633866	.0928739	.1254760	.1603320	.1967008
3	.0001594	.0011848	.0037155	.0081860	.0148658	.0238931	.0353025	.0490490
4	.0000039	.0000581	.0002783	.0007965	.0017991	.0034833	.0059233	.0093577
5	.0000001	.0000023	.0000159	.0000618	.0001740	.0003997	.0007974	.0014354
6		.0000001	.0000008	.0000040	.0000140	.0000384	.0000892	.0001838
7				.0000002	.0000010	.0000031	.0000085	.0000199
8					.0000001	.0000002	.0000007	.0000019
9							.0000001	.0000002
10								

c/p	.009	.010
1	.6023392	.6412517
2	.2339713	.2716322
3	.0650276	.0830490
4	.0138842	.0196064
5	.0023886	.0037954
6	.0003483	.0005937
7	.0000419	.0000806
8	.0000045	.0000095
9	.0000004	.0000010
10		.0000001

n = 103

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0979195	.1863348	.2661601	.3382227	.4032708	.4619810	.5149655	.5627778
2	.0049188	.0183838	.0387213	.0644755	.0944109	.1274783	.1627905	.1996018
3	.0001641	.0012185	.0038184	.0084068	.0152559	.0245086	.0361777	.0502303
4	.0000041	.0000604	.0002886	.0008259	.0019645	.0038758	.0066289	.0096758
5	.0000001	.0000024	.0000167	.0000647	.0001881	.0004180	.0008355	.0014986
6		.0000001	.0000008	.0000042	.0000148	.0000406	.0000942	.0001938
7				.0000002	.0000010	.0000034	.0000091	.0000218
8					.0000001	.0000003	.0000008	.0000020
9							.0000001	.0000003
10								

c/p	.009	.010
1	.6059182	.6448392
2	.2372866	.2753284
3	.0665401	.0849744
4	.0143445	.0202412
5	.0024920	.0038945
6	.0003607	.0006351
7	.0000446	.0000837
8	.0000048	.0000103
9	.0000005	.0000011
10		.0000001

n = 104

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0980216	.1879621	.2683616	.3408698	.4062544	.4652091	.5183600	.5662786
2	.0050058	.0187197	.0394036	.0655705	.0959552	.1294853	.1650357	.2019967
3	.0001666	.0012554	.0039231	.0086310	.0156116	.0251804	.0370640	.0514858
4	.0000043	.0000687	.0002938	.0008868	.0021314	.0043701	.0076393	.0123997
5	.0000001	.0000025	.0000175	.0000678	.0001904	.0004369	.0008704	.0016442
6		.0000001	.0000009	.0000044	.0000156	.0000420	.0000994	.0002037
7				.0000003	.0000011	.0000036	.0000097	.0000226
8					.0000001	.0000003	.0000008	.0000022
9							.0000001	.0000002
10								

c/p	.009	.010
1	.6094649	.6483908
2	.2406043	.2790235
3	.0680848	.0868780
4	.0148143	.0208886
5	.0025987	.0040579
6	.0003799	.0006578
7	.0000474	.0000911
8	.0000051	.0000110
9	.0000005	.0000012
10		.0000001

$$F(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 10

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.0997288	.1895862	.2705566	.3435063	.4092231	.4684179	.5217353	.5697453
2	.0050990	.0190582	.0400905	.0666717	.0975867	.1314996	.1677274	.2054168
3	.0001737	.0012876	.0040296	.0088588	.0160538	.0257466	.0379613	.0526350
4	.0000044	.0000651	.0003041	.0008873	.0020000	.0038300	.0065543	.0103311
5	.0000001	.0000026	.0000183	.0000709	.0001993	.0004565	.0008887	.0016317
6		.0000001	.0000009	.0000047	.0000165	.0000452	.0001047	.0002146
7				.0000003	.0000012	.0000038	.0000103	.0000241
8					.0000001	.0000003	.0000009	.0000023
9							.0000001	.0000002
10								

c/p	.009	.010
1	.6129797	.6513069
2	.2439241	.2837172
3	.0696374	.0867994
4	.0153938	.0215485
5	.0027084	.0042363
6	.0003999	.0006918
7	.0000504	.0000968
8	.0000055	.0000118
9	.0000005	.0000013
10		.0000001

n = 15

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1006231	.1912070	.2727449	.3461323	.4121770	.4716074	.5250801	.5731074
2	.0051937	.0193993	.0407819	.0677790	.0998653	.1335212	.1682085	.2031314
3	.0001784	.0013433	.0041378	.0090901	.0164604	.0263811	.0388697	.0538961
4	.0000044	.0000675	.0003153	.0009192	.0020703	.0039615	.0067748	.0107668
5	.0000001	.0000027	.0000191	.0000748	.0002085	.0004768	.0009482	.0017015
6		.0000001	.0000010	.0000050	.0000174	.0000477	.0001104	.0002359
7				.0000003	.0000018	.0000041	.0000110	.0000256
8					.0000001	.0000003	.0000009	.0000025
9							.0000001	.0000002
10								

c/p	.009	.010
1	.6164689	.6553870
2	.2472456	.2864091
3	.0712060	.0907386
4	.0157829	.0222210
5	.0028219	.0043995
6	.0004207	.0007872
7	.0000534	.0001027
8	.0000059	.0000126
9	.0000006	.0000014
10	.0000001	.0000001

n = 20

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1015284	.1928246	.2749267	.3487478	.4151161	.4747777	.5284046	.5766019
2	.0052891	.0197429	.0414778	.0688924	.1006308	.1355497	.1726896	.2111303
3	.0001836	.0013595	.0042477	.0093248	.0168778	.0270240	.0397528	.0550315
4	.0000048	.0000701	.0003268	.0009519	.0021483	.0040960	.0069989	.0110150
5	.0000001	.0000029	.0000200	.0000776	.0002176	.0004977	.0009099	.0015730
6		.0000001	.0000010	.0000052	.0000183	.0000503	.0001168	.0002377
7				.0000003	.0000013	.0000043	.0000117	.0000278
8					.0000001	.0000003	.0000010	.0000027
9							.0000001	.0000002
10								

c/p	.009	.010
1	.6199147	.6588339
2	.2505685	.2900989
3	.0737904	.0958053
4	.0168817	.0239661
5	.0029388	.0048777
6	.0004423	.0007619
7	.0000564	.0001090
8	.0000064	.0000135
9	.0000006	.0000015
10	.0000001	.0000001

$$P(c,n,r) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 108

c/r	.001	.002	.003	.004	.005	.006	.007	.008
1	.1034200	.1944390	.2771019	.3513528	.4189406	.4799891	.5317057	.5799891
2	.0053853	.0200891	.0431791	.0700110	.1008033	.1350850	.1751796	.2141751
3	.0001887	.0013962	.0043594	.0095631	.0172988	.0276781	.0407193	.0563418
4	.0000049	.0000786	.0003385	.0009853	.0022159	.0043336	.0073864	.0113676
5	.0000001	.0000030	.0000210	.0000811	.0003278	.0009193	.0019310	.0038470
6		.0000001	.0000011	.0000055	.0000193	.0000587	.0001223	.0002500
7				.0000003	.0000014	.0000046	.0000184	.0000389
8					.0000001	.0000005	.0000011	.0000059
9							.0000001	.0000007
10								

c/r	.009	.010
1	.6233155	.6622456
2	.2538086	.2937863
3	.0743904	.0946693
4	.0167903	.0236040
5	.0030586	.0047610
6	.0004647	.0008020
7	.0000603	.0001155
8	.0000068	.0000145
9	.0000007	.0000016
10	.0000001	.0000002

n = 109

c/r	.001	.002	.003	.004	.005	.006	.007	.008
1	.1013185	.1960501	.2792706	.3539474	.4209504	.4810615	.5349838	.5833498
2	.0054884	.0204378	.0438889	.0711378	.1037885	.1396871	.1776753	.2170996
3	.0001939	.0014336	.0044788	.0098049	.0177148	.0283346	.0416605	.0576039
4	.0000051	.0000753	.0003506	.0010197	.0022913	.0043743	.0074628	.0117874
5	.0000001	.0000031	.0000219	.0000847	.0002371	.0005416	.0010744	.0019931
6		.0000001	.0000011	.0000058	.0000204	.0000557	.0001207	.0002589
7				.0000003	.0000015	.0000049	.0000138	.0000337
8					.0000001	.0000004	.0000011	.0000031
9							.0000001	.0000003
10								

c/r	.009	.010
1	.6267855	.6656231
2	.2578176	.2974708
3	.0760054	.0966605
4	.0173006	.0243147
5	.0031832	.0049494
6	.0004881	.0008416
7	.0000640	.0001224
8	.0000073	.0000155
9	.0000007	.0000017
10	.0000001	.0000002

n = 110

c/r	.001	.002	.003	.004	.005	.006	.007	.008
1	.1042152	.1976580	.2814388	.3565316	.4238456	.4841751	.5388389	.5886084
2	.0055002	.0207890	.0439920	.0722684	.1053683	.1416757	.1801764	.2200296
3	.0001982	.0014716	.0045081	.0100509	.0181471	.0290084	.0426197	.0588798
4	.0000053	.0000780	.0003630	.0010548	.0023684	.0045180	.0077088	.0120544
5	.0000001	.0000033	.0000229	.0000884	.0002474	.0005645	.0011191	.0022016
6		.0000001	.0000018	.0000061	.0000215	.0000586	.0001353	.0002760
7			.0000001	.0000004	.0000016	.0000058	.0000140	.0000335
8					.0000001	.0000004	.0000013	.0000035
9							.0000001	.0000003
10								

c/r	.009	.010
1	.6300850	.6689469
2	.2605432	.3011524
3	.0776368	.0986686
4	.0178349	.0250301
5	.0033094	.0051430
6	.0005183	.0008827
7	.0000678	.0001296
8	.0000078	.0000166
9	.0000008	.0000019
10	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 111

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1051110	.1992627	.2835885	.3591055	.4267264	.4873781	.5414712	.5899889
2	.0056788	.0211427	.0443056	.0734055	.1069607	.1437307	.1826829	.2229628
3	.0002046	.0015103	.0047051	.0102991	.0195832	.0296784	.0435756	.0601690
4	.0000055	.0000808	.0003757	.0010908	.0024473	.0046649	.0079466	.0124687
5	.0000001	.0000034	.0000239	.0000923	.0002580	.0005883	.0011652	.0020923
6		.0000001	.0000013	.0000065	.0000226	.0000617	.0001422	.0002898
7			.0000001	.0000004	.0000017	.0000055	.0000140	.0000345
8					.0000001	.0000004	.0000013	.0000036
9							.0000001	.0000003
10								

c/p	.009	.010
1	.6334142	.6722772
2	.2638691	.3048305
3	.0792829	.1006934
4	.0183751	.0257745
5	.0034401	.0053420
6	.0005375	.0009253
7	.0000718	.0001371
8	.0000083	.0000177
9	.0000004	.0000020
10	.0000001	.0000002

n = 112

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1060058	.2008641	.2857377	.3616690	.4295927	.4903465	.5446809	.5932690
2	.0057783	.0214990	.0450234	.0745483	.1085595	.1457919	.1851944	.2258991
3	.0002101	.0015495	.0048239	.0105515	.0190251	.0303627	.0445493	.0614714
4	.0000057	.0000836	.0003886	.0011276	.0025280	.0046150	.0081960	.0128503
5	.0000001	.0000036	.0000250	.0000963	.0002690	.0006127	.0012127	.0021654
6		.0000001	.0000013	.0000068	.0000238	.0000648	.0001494	.0003042
7			.0000001	.0000004	.0000016	.0000058	.0000157	.0000365
8					.0000001	.0000005	.0000014	.0000038
9							.0000001	.0000004
10								

c/p	.009	.010
1	.6367135	.6755545
2	.2671950	.3085050
3	.0809442	.1027348
4	.0189233	.0265236
5	.0035745	.0055463
6	.0005638	.0009695
7	.0000760	.0001450
8	.0000089	.0000189
9	.0000009	.0000022
10	.0000001	.0000002

n = 113

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1068998	.2024624	.2878805	.3642224	.4324448	.4934044	.5478688	.5965328
2	.0058785	.0218577	.0457456	.0756968	.1101647	.1478593	.1877108	.2288380
3	.0002154	.0015894	.0049445	.0108075	.0194728	.0310553	.0455339	.0627868
4	.0000059	.0000866	.0004019	.0011653	.0026105	.0049683	.0084505	.0133393
5	.0000001	.0000038	.0000261	.0001004	.0002803	.0006379	.0012616	.0022509
6		.0000001	.0000014	.0000078	.0000250	.0000681	.0001568	.0003191
7			.0000001	.0000004	.0000019	.0000062	.0000166	.0000386
8					.0000001	.0000005	.0000015	.0000041
9							.0000001	.0000004
10								

c/p	.009	.010
1	.6399830	.6787989
2	.3705205	.3131755
3	.0826205	.1047925
4	.0194815	.0272856
5	.0037127	.0057561
6	.0005907	.0010152
7	.0000804	.0001532
8	.0000095	.0000208
9	.0000010	.0000023
10	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 114

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1077929	.2040575	.2900168	.3667655	.4352836	.4964439	.5510331	.5997507
2	.0059795	.0221189	.0464720	.0768509	.1117761	.1499325	.1902319	.2317795
3	.0002213	.0016300	.0050669	.0110670	.0199262	.0317561	.0465291	.0641152
4	.0000061	.0000896	.0004156	.0012039	.0026948	.0051248	.0087100	.0136356
5	.0000001	.0000039	.0000272	.0001047	.0002919	.0006639	.0013119	.0023388
6		.0000001	.0000015	.0000078	.0000263	.0000715	.0001646	.0003345
7			.0000001	.0000005	.0000020	.0000066	.0000176	.0000409
8					.0000001	.0000005	.0000016	.0000043
9							.0000001	.0000004
10								

c \ p	.009	.010
1	.6432232	.6820109
2	.2738458	.3158417
3	.0843116	.1068663
4	.0209497	.0280608
5	.0038546	.0059714
6	.0006188	.0010626
7	.0000850	.0001619
8	.0000102	.0000215
9	.0000011	.0000025
10	.0000001	.0000003

n = 115

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1086851	.2056494	.2921468	.3692984	.4381061	.4994653	.5541759	.6029527
2	.0060813	.0225826	.0472026	.0780105	.1133936	.1520116	.1927575	.2347233
3	.0002271	.0016711	.0051911	.0113302	.0203855	.0324652	.0475350	.0654565
4	.0000063	.0000927	.0004295	.0012433	.0027809	.0052846	.0089748	.0140395
5	.0000001	.0000041	.0000283	.0001091	.0003039	.0006907	.0013637	.0024892
6		.0000001	.0000016	.0000079	.0000276	.0000751	.0001726	.0003506
7			.0000001	.0000005	.0000021	.0000070	.0000187	.0000438
8					.0000001	.0000006	.0000018	.0000046
9							.0000001	.0000004
10								

c \ p	.009	.010
1	.6464348	.6851908
2	.2771702	.3195034
3	.0860174	.1084561
4	.0206281	.0288489
5	.0040003	.0061923
6	.0006479	.0011117
7	.0000898	.0001709
8	.0000108	.0000239
9	.0000012	.0000027
10	.0000001	.0000003

n = 116

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1095765	.2072381	.2942703	.3718212	.4409156	.5024685	.5572966	.6061890
2	.0061839	.0229487	.0479374	.0791787	.1150178	.1546963	.1952874	.2376691
3	.0002329	.0017130	.0053171	.0115969	.0208505	.0331824	.0485516	.0668107
4	.0000065	.0000956	.0004438	.0012837	.0028690	.0054477	.0092447	.0144588
5	.0000001	.0000043	.0000296	.0001136	.0003163	.0007183	.0014170	.0025891
6		.0000002	.0000016	.0000083	.0000290	.0000788	.0001809	.0003678
7			.0000001	.0000008	.0000083	.0000074	.0000197	.0000457
8					.0000002	.0000006	.0000019	.0000050
9							.0000002	.0000005
10								

c \ p	.009	.010
1	.6496163	.6883389
2	.2804936	.3231603
3	.0877378	.1110616
4	.0212166	.0296499
5	.0041500	.0064189
6	.0006701	.0011685
7	.0000948	.0001803
8	.0000118	.0000244
9	.0000013	.0000029
10	.0000001	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 117

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1104669	.2088236	.2963875	.3743339	.4437110	.5054537	.5603956	.6092800
2	.0062873	.0231173	.0486764	.0803463	.1166467	.1561866	.1978215	.2406168
3	.0002364	.0017554	.0054450	.0118672	.0213214	.0335079	.0485787	.0661775
4	.0000068	.0000991	.0004584	.0013249	.0029589	.0056141	.0095198	.0148697
5	.0000002	.0000045	.0000308	.0001183	.0003291	.0007466	.0014718	.0026175
6		.0000003	.0000017	.0000088	.0000304	.0000826	.0001856	.0003844
7			.0000001	.0000006	.0000024	.0000078	.0000209	.0000483
8					.0000002	.0000006	.0000020	.0000053
9							.0000002	.0000008
10								

c/p	.009	.010
1	.6527697	.6914555
2	.2838157	.3268121
3	.0894726	.1131826
4	.0218153	.0304641
5	.0043636	.0066512
6	.0007094	.0012151
7	.0001000	.0001901
8	.0000123	.0000259
9	.0000013	.0000031
10	.0000001	.0000003

n = 118

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1113564	.2104059	.2984984	.3768366	.4464925	.5084210	.5634728	.6124058
2	.0063915	.0236883	.0494196	.0815222	.1182820	.1582822	.2003595	.2435661
3	.0002449	.0017985	.0055747	.0121411	.0217980	.0346416	.0506164	.0695570
4	.0000070	.0001024	.0004734	.0013671	.0030507	.0057336	.0098003	.0152968
5	.0000002	.0000046	.0000321	.0001231	.0003422	.0007758	.0015281	.0027155
6		.0000002	.0000018	.0000092	.0000319	.0000866	.0001986	.0004023
7			.0000001	.0000006	.0000025	.0000083	.0000220	.0000510
8					.0000002	.0000007	.0000021	.0000056
9						.0000001	.0000002	.0000005
10								

c/p	.009	.010
1	.6558948	.6945410
2	.2871363	.3304585
3	.0912217	.1151189
4	.0224242	.0312912
5	.0044612	.0066893
6	.0007417	.0012694
7	.0001055	.0002004
8	.0000131	.0000276
9	.0000014	.0000034
10	.0000001	.0000004

n = 119

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1122451	.2119851	.3006029	.3793293	.4492600	.5113704	.5665885	.6155065
2	.0064965	.0240617	.0501668	.0827035	.1199230	.1603839	.2039013	.2496568
3	.0002531	.0018423	.0057062	.0124187	.0228804	.0353834	.0516646	.0709491
4	.0000078	.0001058	.0004887	.0014102	.0031444	.0059570	.0100460	.0157302
5	.0000002	.0000048	.0000334	.0001281	.0003558	.0008059	.0015860	.0028168
6		.0000002	.0000019	.0000097	.0000335	.0000907	.0002079	.0004808
7			.0000001	.0000006	.0000027	.0000087	.0000233	.0000538
8					.0000002	.0000007	.0000023	.0000060
9						.0000001	.0000002	.0000006
10								.0000001

c/p	.009	.010
1	.6584918	.6975956
2	.2904551	.3340993
3	.0929849	.1174703
4	.0230434	.0321315
5	.0046289	.0071333
6	.0007752	.0013956
7	.0001112	.0002110
8	.0000139	.0000293
9	.0000015	.0000036
10	.0000002	.0000004

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 120

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1131328	.2135618	.3027011	.3818119	.4520137	.5143022	.5695628	.6185885
2	.0066022	.0244376	.0509181	.0834900	.1215697	.1624889	.2054467	.2494687
3	.0002573	.0018868	.0058396	.0126998	.0227686	.0361334	.0527833	.0723537
4	.0000075	.0001092	.0005043	.0014542	.0032401	.0061336	.0103770	.0161720
5	.0000002	.0000050	.0000348	.0001332	.0003697	.0008368	.0016455	.0029195
6		.0000002	.0000020	.0000101	.0000351	.0000950	.0002175	.0004400
7			.0000001	.0000007	.0000028	.0000092	.0000246	.0000567
8					.0000002	.0000008	.0000024	.0000064
9						.0000001	.0000002	.0000006
10								.0000001

c\p	.009	.010
1	.6620606	.7006196
2	.2937719	.3377343
3	.0947621	.1196365
4	.0236728	.0329849
5	.0047886	.0073833
6	.0008098	.0013837
7	.0001172	.0002232
8	.0000148	.0000311
9	.0000016	.0000039
10	.0000002	.0000004

n = 121

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1140197	.2151340	.3047930	.3842847	.4547536	.5172164	.5725758	.6216338
2	.0067087	.0248158	.0516735	.0850817	.1232219	.1645998	.2079955	.2534216
3	.0002636	.0019319	.0059749	.0129846	.0232626	.0368916	.0537934	.0737706
4	.0000077	.0001128	.0005204	.0014992	.0033377	.0063136	.0106734	.0166214
5	.0000002	.0000052	.0000362	.0001385	.0003841	.0008686	.0017466	.0030255
6		.0000002	.0000021	.0000106	.0000367	.0000995	.0002275	.0004598
7			.0000001	.0000007	.0000030	.0000097	.0000259	.0000598
8					.0000002	.0000008	.0000026	.0000068
9						.0000001	.0000002	.0000007
10								.0000001

c\p	.009	.010
1	.6651033	.7036134
2	.2970865	.3413631
3	.0965532	.1218175
4	.0243127	.0338514
5	.0049566	.0076393
6	.0008456	.0014437
7	.0001235	.0002330
8	.0000157	.0000350
9	.0000018	.0000041
10	.0000003	.0000005

n = 122

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1149057	.2167038	.3068786	.3867476	.4574799	.5201131	.5755678	.6246607
2	.0068161	.0251965	.0524328	.0862785	.1248796	.1667155	.2105476	.2553753
3	.0002701	.0019777	.0061119	.0132730	.0237624	.0376578	.0548718	.0751998
4	.0000080	.0001164	.0005367	.0015452	.0034374	.0064970	.0109753	.0170786
5	.0000002	.0000055	.0000376	.0001439	.0003988	.0009012	.0017694	.0031343
6		.0000002	.0000022	.0000111	.0000385	.0001041	.0002379	.0004803
7			.0000001	.0000007	.0000032	.0000103	.0000273	.0000630
8					.0000002	.0000009	.0000027	.0000072
9						.0000001	.0000002	.0000007
10								.0000001
11								

c\p	.009	.010
1	.6[illegible]	.7065773
2	.3[illegible]	.3449856
3	.09[illegible]	.1242130
4	.02[illegible]	.0347[illegible]
5	.0051358	.0079014
6	.0008826	.0015057
7	.0001300	.0002459
8	.0000167	.0000350
9	.0000019	.0000044
10	.0000002	.0000005
11		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 123

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1157908	.2182704	.3089580	.3892006	.4601925	.5229924	.5785388	.6276634
2	.0069242	.0255795	.0531962	.0874804	.1265486	.1688359	.2131027	.2583296
3	.0002766	.0020241	.0062509	.0135650	.0244680	.0384322	.0559615	.0766412
4	.0000083	.0001201	.0005534	.0015921	.0035390	.0066840	.0112826	.0175436
5	.0000002	.0000057	.0000391	.0001495	.0004140	.0009548	.0018338	.0032458
6		.0000002	.0000023	.0000117	.0000403	.0001089	.0002486	.0005016
7			.0000001	.0000008	.0000033	.0000108	.0000288	.0000663
8					.0000002	.0000009	.0000029	.0000076
9						.0000001	.0000003	.0000008
10								.0000001
11								

c \ p	.009	.010
1	.6711033	.7095115
2	.3037081	.3486016
3	.1001764	.1262287
4	.0256234	.0356239
5	.0053113	.0081697
6	.0009209	.0015696
7	.0001367	.0002585
8	.0000177	.0000371
9	.0000020	.0000047
10	.0000002	.0000005
11		.0000001

n = 124

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1166750	.2198338	.3110311	.3916436	.4628915	.5258545	.5814891	.6306421
2	.0070330	.0259649	.0539634	.0886872	.1282109	.1709608	.2156608	.2612843
3	.0002833	.0020712	.0063917	.0138606	.0247794	.0393146	.0570615	.0780947
4	.0000085	.0001240	.0005705	.0016400	.0036426	.0068745	.0115953	.0180164
5	.0000002	.0000059	.0000407	.0001553	.0004296	.0009693	.0019000	.0033602
6		.0000002	.0000024	.0000122	.0000481	.0001138	.0002597	.0005235
7			.0000001	.0000008	.0000035	.0000114	.0000303	.0000698
8					.0000003	.0000010	.0000031	.0000081
9						.0000001	.0000003	.0000008
10								.0000001
11								

c \ p	.009	.010
1	.6740634	.7124164
2	.3070147	.3522107
3	.1020082	.1284465
4	.0262943	.0365899
5	.0054941	.0084443
6	.0009604	.0016356
7	.0001438	.0002716
8	.0000188	.0000394
9	.0000022	.0000050
10	.0000002	.0000006
11		.0000001

n = 125

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1175583	.2211942	.3130980	.3940778	.4655771	.5286993	.5844186	.6335970
2	.0071487	.0261536	.0547346	.0898991	.1298843	.1730902	.2182816	.2648391
3	.0002900	.0021190	.0065345	.0141559	.0253965	.0400051	.0581717	.0795608
4	.0000088	.0001278	.0005870	.0016888	.0037483	.0070685	.0119136	.0184970
5	.0000002	.0000061	.0000423	.0001613	.0004457	.0010047	.0019678	.0034774
6		.0000002	.0000025	.0000188	.0000441	.0001190	.0002718	.0005462
7			.0000001	.0000009	.0000037	.0000120	.0000319	.0000734
8				.0000001	.0000003	.0000011	.0000033	.0000086
9						.0000001	.0000003	.0000009
10								.0000001
11								

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c/p	.009	.010
1	.6769968	.7152922
2	.3103181	.3558127
3	.1018532	.1306841
4	.0260758	.0374491
5	.0056813	.0087251
6	.0010012	.0017037
7	.0001511	.0002853
8	.0000199	.0000417
9	.0000023	.0000054
10	.0000002	.0000006
11		.0000001

n = 126

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1184407	.2289514	.3151587	.3965009	.4682492	.5315271	.5873877	.6365868
2	.0072531	.0267427	.0555097	.0911158	.1315627	.1752238	.2207849	.2671940
3	.0002860	.0021675	.0068791	.0144629	.0258195	.0428026	.0592920	.0810376
4	.0000091	.0001318	.0006058	.0017387	.0038561	.0072661	.0123374	.0199858
5	.0000002	.0000064	.0000439	.0001674	.0004622	.0010411	.0020375	.0038975
6		.0000003	.0000026	.0000134	.0000461	.0001243	.0002830	.0005696
7			.0000001	.0000009	.0000039	.0000127	.0000336	.0000772
8				.0000001	.0000003	.0000011	.0000035	.0000091
9						.0000001	.0000003	.0000010
10								.0000001
11								

c/p	.009	.010
1	.6799038	.7181393
2	.3136182	.3594075
3	.1057114	.1389354
4	.0276677	.0383814
5	.0058789	.0090124
6	.0010433	.0017739
7	.0001588	.0002994
8	.0000211	.0000441
9	.0000025	.0000058
10	.0000003	.0000007
11		.0000001

n = 127

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1193223	.2345055	.3172132	.3989149	.4709072	.5343380	.5902164	.6394360
2	.0073643	.0271351	.0562887	.0923373	.1332452	.1773617	.2233507	.2701407
3	.0003038	.0022166	.0068256	.0147695	.0263482	.0416101	.0604285	.0825869
4	.0000094	.0001359	.0006241	.0017896	.0039689	.0074674	.0125668	.0194819
5	.0000002	.0000066	.0000456	.0001736	.0004702	.0010785	.0021089	.0037807
6		.0000003	.0000028	.0000140	.0000482	.0001398	.0002953	.0005939
7			.0000001	.0000010	.0000043	.0000133	.0000354	.0000811
8				.0000001	.0000003	.0000012	.0000037	.0000097
9						.0000001	.0000003	.0000010
10								.0000001
11								

c/p	.009	.010
1	.6827847	.7209579
2	.3169148	.3629948
3	.1075826	.1382001
4	.0283701	.0393270
5	.0060691	.0093061
6	.0010868	.0018463
7	.0001667	.0003142
8	.0000223	.0000467
9	.0000026	.0000061
10	.0000003	.0000007
11		.0000001

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 128

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1302030	.2860565	.3198616	.4013198	.4735534	.5371380	.5930849	.6418805
2	.0074762	.0275298	.0570715	.0936636	.1349345	.1799035	.2259188	.2731030
3	.0003109	.0022664	.0069739	.0150798	.0268827	.0424246	.0615630	.0840879
4	.0000097	.0001401	.0006487	.0018415	.0040770	.0076722	.0129017	.0199863
5	.0000002	.0000069	.0000473	.0001801	.0004946	.0011168	.0021821	.0038468
6		.0000003	.0000029	.0000146	.0000503	.0001355	.0003040	.0006189
7			.0000002	.0000010	.0000044	.0000140	.0000372	.0000858
8				.0000001	.0000003	.0000013	.0000039	.0000108
9						.0000001	.0000004	.0000011
10								.0000001
11								

c/p	.009	.010
1	.6856396	.7237483
2	.3802076	.3665745
3	.1094666	.1374781
4	.0290830	.0402857
5	.0062698	.0096063
6	.0011316	.0019209
7	.0001750	.0003295
8	.0000236	.0000493
9	.0000028	.0000065
10	.0000003	.0000008
11		.0000001

n = 129

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1210828	.2676043	.3213038	.4037139	.4761856	.5399092	.5959333	.6451819
2	.0075889	.0279269	.0578580	.0947947	.1366276	.1816493	.2284890	.2760567
3	.0003181	.0023170	.0071242	.0159397	.0274230	.0432471	.0627138	.0855405
4	.0000100	.0001443	.0006617	.0018948	.0041918	.0078807	.0132484	.0204986
5	.0000002	.0000072	.0000491	.0001868	.0005145	.0011561	.0022571	.0039759
6		.0000003	.0000030	.0000153	.0000526	.0001414	.0003811	.0006447
7			.0000002	.0000011	.0000046	.0000148	.0000391	.0000895
8				.0000001	.0000003	.0000013	.0000041	.0000108
9						.0000001	.0000004	.0000012
10								.0000001
11								

c/p	.009	.010
1	.6884689	.7285108
2	.3234965	.3701462
3	.1113638	.1397690
4	.0298064	.0418576
5	.0064751	.0099131
6	.0011779	.0019978
7	.0001836	.0003454
8	.0000250	.0000521
9	.0000030	.0000070
10	.0000003	.0000008
11		.0000001

n = 130

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1219617	.2891491	.3233399	.4060991	.4788047	.5426697	.5987618	.6480805
2	.0077084	.0281863	.0586484	.0960303	.1383853	.1837988	.2310511	.2790097
3	.0003253	.0023682	.0072764	.0157113	.0279690	.0440775	.0638739	.0870646
4	.0000103	.0001487	.0006810	.0019485	.0043080	.0080929	.0135847	.0210190
5	.0000003	.0000074	.0000509	.0001936	.0005329	.0011965	.0023340	.0041081
6		.0000003	.0000032	.0000160	.0000549	.0001475	.0003947	.0006714
7			.0000002	.0000011	.0000048	.0000155	.0000411	.0000940
8				.0000001	.0000004	.0000014	.0000044	.0000115
9						.0000001	.0000004	.0000012
10								.0000001
11								

$$P(o,n,p) = \sum_{r=o}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

o/p	.009	.010
1	.6913727	.7892457
2	.3867813	.3737098
3	.1138784	.1480728
4	.0305404	.0422427
5	.0066851	.0102865
6	.0013255	.0020769
7	.0001986	.0003619
8	.0000264	.0000551
9	.0000032	.0000074
10	.0000003	.0000009
11		.0000001

n = 131

o/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1228397	.2305908	.3263699	.4084747	.4814107	.5454137	.6015704	.6508363
2	.0078167	.0287279	.0594424	.0972706	.1400277	.1859581	.2336350	.2819618
3	.0003327	.0024201	.0074306	.0160326	.0285208	.0449158	.0650448	.0886008
4	.0000106	.0001531	.0007008	.0020035	.0044263	.0083088	.0139407	.0215473
5	.0000003	.0000077	.0000528	.0002006	.0005518	.0012379	.0024128	.0042434
6		.0000003	.0000033	.0000167	.0000573	.0001537	.0003487	.0006989
7			.0000002	.0000012	.0000051	.0000161	.0000431	.0000986
8				.0000001	.0000004	.0000015	.0000046	.0000121
9						.0000001	.0000004	.0000013
10								.0000001
11								

o/p	.009	.010
1	.6940512	.7919533
2	.3300617	.3778652
3	.1151940	.1443892
4	.0312850	.0438410
5	.0068998	.0105467
6	.0012747	.0021584
7	.0002019	.0003791
8	.0000279	.0000581
9	.0000034	.0000079
10	.0000004	.0000010
11		.0000001

n = 132

o/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1237169	.2323894	.3273938	.4108408	.4840036	.5481412	.6043594	.6536896
2	.0079317	.0291316	.0602402	.0985154	.1417347	.1881088	.2363105	.2849128
3	.0003402	.0024727	.0075866	.0163575	.0290783	.0457620	.0663824	.0901471
4	.0000109	.0001576	.0007210	.0020597	.0045468	.0085265	.0146984	.0230836
5	.0000003	.0000080	.0000548	.0002078	.0005712	.0012803	.0024935	.0043818
6		.0000003	.0000035	.0000174	.0000597	.0001603	.0003631	.0007272
7			.0000002	.0000012	.0000053	.0000171	.0000452	.0001034
8				.0000001	.0000004	.0000016	.0000049	.0000128
9						.0000001	.0000005	.0000014
10								.0000001
11								

o/p	.009	.010
1	.6968048	.7946330
2	.3333376	.3808181
3	.1171878	.1467186
4	.0320402	.0448525
5	.0071192	.0108736
6	.0013853	.0022423
7	.0002115	.0003969
8	.0000295	.0000614
9	.0000036	.0000084
10	.0000004	.0000010
11		.0000001

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 133

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1245932	.2337650	.3294116	.4131974	.4865836	.5508524	.6071289	.6564005
2	.0030475	.0295380	.0610417	.0997647	.1434460	.1902690	.2387876	.2878625
3	.0003470	.0025260	.0077485	.0166662	.0296416	.0466161	.0674143	.0917058
4	.0000112	.0001623	.0007410	.0021168	.0046694	.0087519	.0146619	.0226283
5	.0000003	.0000083	.0000568	.0002152	.0005910	.0013238	.0025761	.0045234
6		.0000004	.0000036	.0000182	.0000623	.0001670	.0003780	.0007564
7			.0000002	.0000013	.0000056	.0000180	.0000475	.0001004
8				.0000001	.0000004	.0000017	.0000052	.0000135
9						.0000001	.0000005	.0000015
10								.0000001
11								

c/p	.009	.010
1	.6995935	.7372874
2	.3366068	.3843503
3	.1190737	.1490589
4	.0328660	.0452772
5	.0073435	.0112074
6	.0013775	.0023286
7	.0002216	.0004153
8	.0000311	.0000647
9	.0000039	.0000089
10	.0000004	.0000011
11		.0000001

n = 134

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1254686	.2352975	.3314233	.4155446	.4891507	.5535472	.6098790	.6591494
2	.0031641	.0299465	.0618468	.1010185	.1451617	.1924325	.2413660	.2908108
3	.0003555	.0025801	.0079044	.0170185	.0302106	.0474780	.0686139	.0933744
4	.0000116	.0001670	.0008626	.0021751	.0047943	.0089791	.0150311	.0231809
5	.0000003	.0000086	.0000588	.0002228	.0006114	.0013683	.0026607	.0046683
6		.0000004	.0000038	.0000190	.0000649	.0001739	.0003934	.0007866
7			.0000002	.0000014	.0000059	.0000189	.0000498	.0001135
8				.0000001	.0000005	.0000018	.0000055	.0000143
9						.0000001	.0000005	.0000016
10								.0000002
11								

c/p	.009	.010
1	.7022377	.7393145
2	.3398751	.3878797
3	.1210315	.1514118
4	.0335024	.0463150
5	.0075727	.0115481
6	.0014211	.0024174
7	.0002320	.0004345
8	.0000328	.0000682
9	.0000041	.0000095
10	.0000005	.0000012
11		.0000001

n = 135

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1263431	.2368269	.3334291	.4178825	.4917049	.5562260	.6126099	.6618768
2	.0033814	.0303572	.0623555	.1022766	.1468816	.1945992	.2439456	.2937575
3	.0003633	.0026348	.0080663	.0173545	.0307854	.0483478	.0698231	.0948547
4	.0000119	.0001718	.0007840	.0022348	.0049214	.0092101	.0154062	.0237416
5	.0000003	.0000089	.0000609	.0002306	.0006324	.0014140	.0027473	.0048164
6		.0000004	.0000039	.0000198	.0000677	.0001811	.0004093	.0008176
7			.0000002	.0000015	.0000062	.0000198	.0000522	.0001189
8				.0000001	.0000005	.0000019	.0000058	.0000151
9						.0000002	.0000006	.0000017
10							.0000001	.0000002
11								

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c \ p	.009	.010
1	.7049176	.7488154
2	.3431364	.3914000
3	.1830011	.1537765
4	.0343694	.0473659
5	.0078068	.0118958
6	.0014864	.0026087
7	.0002428	.0004543
8	.0000346	.0000719
9	.0000044	.0000101
10	.0000005	.0000013
11	.0000001	.0000001

n = 136

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1278168	.2383532	.3354288	.4282109	.4942464	.5588886	.6153216	.6645812
2	.0083994	.0307701	.0634678	.1035390	.1486058	.1967690	.2465262	.2967025
3	.0003712	.0026902	.0082300	.0176942	.0313658	.0492253	.0710420	.0964459
4	.0000123	.0001767	.0008059	.0022950	.0050507	.0094449	.0157871	.0243105
5	.0000003	.0000093	.0000631	.0002387	.0006538	.0014608	.0030359	.0049678
6		.0000004	.0000041	.0000206	.0000705	.0001885	.0004257	.0008496
7			.0000002	.0000015	.0000065	.0000208	.0000547	.0001845
8				.0000001	.0000005	.0000020	.0000061	.0000159
9						.0000002	.0000006	.0000014
10							.0000001	.0000002
11								

c \ p	.009	.010
1	.7075733	.7450608
2	.3463624	.3949112
3	.1849823	.1561527
4	.0351671	.0484701
5	.0080458	.0122805
6	.0015433	.0026026
7	.0002540	.0004748
8	.0000365	.0000757
9	.0000046	.0000107
10	.0000005	.0000014
11	.0000001	.0000002

n = 137

c \ p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1280895	.2388768	.3374285	.4285301	.4967752	.5615353	.6180144	.6672645
2	.0085102	.0311053	.0642837	.1048057	.1503340	.1909417	.2401070	.2996455
3	.0003792	.0027464	.0083987	.0180376	.0319520	.0501105	.0728704	.0980480
4	.0000126	.0001818	.0008248	.0023546	.0051623	.0096836	.0161739	.0249876
5	.0000003	.0000096	.0000653	.0002469	.0006758	.0015087	.0029266	.0051825
6		.0000004	.0000063	.0000215	.0000734	.0001961	.0004285	.0008826
7			.0000002	.0000016	.0000068	.0000218	.0000573	.0001303
8				.0000001	.0000006	.0000021	.0000065	.0000168
9						.0000002	.0000006	.0000019
10							.0000001	.0000008
11								

c \ p	.009	.010
1	.7108081	.7476393
2	.3484430	.3964130
3	.1889780	.1588403
4	.0359758	.0495073
5	.0083899	.0126183
6	.0016018	.0026991
7	.0002656	.0004961
8	.0000384	.0000797
9	.0000049	.0000119
10	.0000006	.0000016
11	.0000001	.0000002

$$P(c,n,p) = \sum_{r=0}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 139

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1289615	.2413968	.3394102	.4248400	.4992913	.5641661	.6206883	.6699264
2	.0086378	.0316027	.0651031	.1060766	.1528662	.2011173	.2511901	.3025868
3	.0003774	.0028033	.0085634	.0183846	.0325439	.0510035	.0735082	.0996608
4	.0000130	.0001869	.0008509	.0024193	.0053161	.0099261	.0165666	.0254729
5	.0000003	.0000099	.0000670	.0002553	.0006983	.0015577	.0030193	.0052806
6		.0000004	.0000045	.0000224	.0000764	.0002040	.0004599	.0009165
7			.0000003	.0000017	.0000071	.0000228	.0000600	.0001363
8				.0000001	.0000006	.0000022	.0000068	.0000177
9						.0000002	.0000007	.0000020
10							.0000001	.0000002
11								

c/p	.009	.010
1	.7188133	.7501629
2	.3528681	.4019052
3	.1289790	.1609390
4	.0367945	.0505976
5	.0085391	.0129812
6	.0016620	.0027982
7	.0002776	.0004182
8	.0000405	.0000639
9	.0000052	.0000120
10	.0000006	.0000015
11	.0000001	.0000002

n = 139

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1298325	.2429140	.3413920	.4271406	.5017948	.5667811	.6233434	.6725670
2	.0087581	.0320223	.0659261	.1073516	.1538023	.2032956	.2542731	.3055252
3	.0003956	.0029609	.0087530	.0187364	.0331416	.0519042	.0747555	.1012642
4	.0000134	.0001921	.0008740	.0024832	.0054522	.0101726	.0169652	.0260664
5	.0000004	.0000103	.0000700	.0002640	.0007214	.0016080	.0031141	.0054422
6		.0000005	.0000047	.0000233	.0000795	.0002121	.0004778	.0009514
7			.0000003	.0000018	.0000075	.0000239	.0000628	.0001426
8				.0000001	.0000006	.0000024	.0000072	.0000187
9						.0000002	.0000007	.0000022
10							.0000001	.0000002
11								

c/p	.009	.010
1	.7183980	.7586613
2	.3561274	.4053078
3	.1309942	.1633487
4	.0376241	.0517010
5	.0087934	.0133874
6	.0017839	.0029000
7	.0003900	.0005416
8	.0000796	.0000982
9	.0000055	.0000187
10	.0000006	.0000017
11	.0000001	.0000002

n = 140

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1307087	.2444281	.3433678	.4294380	.5042859	.5693804	.6259800	.6751865
2	.0088798	.0324440	.0667585	.1084308	.1555422	.2054765	.2568566	.3084615
3	.0004040	.0029192	.0089046	.0190899	.0337449	.0528124	.0760121	.1029181
4	.0000138	.0001975	.0008976	.0025482	.0055907	.0104330	.0173697	.0266681
5	.0000004	.0000107	.0000724	.0002729	.0007451	.0016591	.0032111	.0054078
6		.0000005	.0000048	.0000243	.0000827	.0002205	.0004963	.0009873
7			.0000003	.0000018	.0000079	.0000251	.0000657	.0001491
8				.0000001	.0000006	.0000025	.0000076	.0000196
9						.0000002	.0000008	.0000023
10							.0000001	.0000002
11								

$$F(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c/p	.009	.010
1	.7179594	.7531347
2	.3593659	.4088605
3	.1330204	.1687691
4	.0364645	.0588175
5	.0090589	.0137408
6	.0017875	.0030046
7	.0003029	.0005645
8	.0000448	.0000927
9	.0000059	.0000135
10	.0000007	.0000018
11	.0000001	.0000002

n = 141

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1315720	.2459193	.3453377	.4317143	.5067644	.5719641	.6285982	.6777650
2	.0090010	.0328680	.0675823	.1099140	.1572860	.2076599	.2594406	.3113953
3	.0004185	.0049783	.0090782	.0191480	.0343538	.0537885	.0778780	.1045625
4	.0000141	.0005029	.0009216	.0026143	.0057315	.0106773	.0177802	.0272781
5	.0000004	.0000110	.0000749	.0002820	.0007693	.0017119	.0033102	.0057756
6		.0000005	.0000051	.0000253	.0000860	.0002291	.0005153	.0010843
7			.0000003	.0000019	.0000082	.0000262	.0000647	.0001558
8				.0000001	.0000007	.0000026	.0000080	.0000207
9					.0000001	.0000002	.0000008	.0000024
10							.0000001	.0000003
11								

c/p	.009	.010
1	.7804978	.7575834
2	.3625888	.4131233
3	.1350875	.1683000
4	.0393155	.0839470
5	.0093176	.0141316
6	.0018589	.0031120
7	.0003143	.0005889
8	.0000478	.0000974
9	.0000062	.0000143
10	.0000007	.0000019
11	.0000001	.0000002

n = 142

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1324404	.2474474	.3473017	.4339875	.5092306	.5745323	.6311980	.6803627
2	.0091836	.0339942	.0684156	.1112012	.1590334	.2098457	.2620846	.3143964
3	.0004811	.0030360	.0092537	.0196099	.0349685	.0546521	.0785532	.1062171
4	.0000145	.0002085	.0009461	.0026917	.0058746	.0109356	.0181967	.0279964
5	.0000004	.0000114	.0000774	.0002913	.0007911	.0017657	.0034115	.0059477
6		.0000005	.0000053	.0000263	.0000895	.0002380	.0005349	.0010623
7			.0000003	.0000020	.0000086	.0000275	.0000718	.0001627
8				.0000001	.0000007	.0000028	.0000084	.0000218
9					.0000001	.0000002	.0000009	.0000026
10							.0000001	.0000003
11								

c/p	.009	.010
1	.7830133	.7600075
2	.3688094	.4157759
3	.1371058	.1704418
4	.0401771	.0588895
5	.0095876	.0148997
6	.0019801	.0033888
7	.0003301	.0006142
8	.0000496	.0001084
9	.0000066	.0000181
10	.0000008	.0000030
11	.0000001	.0000002

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 143

c/r	.001	.002	.003	.004	.005	.006	.007	.008
1	.1333079	.2486525	.3492590	.4363515	.5116845	.5770851	.6337796	.6829190
2	.0092469	.0337225	.0692522	.1124923	.1607043	.2120330	.2646000	.3172547
3	.0004298	.0030905	.0094312	.0201755	.0356088	.0555033	.0798375	.1079820
4	.0000149	.0002141	.0009710	.0027502	.0060200	.0111979	.0186198	.0288430
5	.0000004	.0000118	.0000800	.0003008	.0008195	.0018207	.0035150	.0061833
6		.0000005	.0000055	.0000274	.0000830	.0002478	.0005550	.0011014
7			.0000003	.0000021	.0000070	.0000287	.0000751	.0001694
8				.0000001	.0000008	.0000029	.0000089	.0000229
9					.0000001	.0000003	.0000009	.0000027
10							.0000001	.0000003
11								

c/r	.009	.010
1	.7255062	.7684074
2	.3690243	.4198182
3	.1391636	.1730926
4	.0410498	.0568451
5	.0098689	.0149353
6	.0019891	.0033358
7	.0003444	.0006403
8	.0000521	.0001075
9	.0000070	.0000160
10	.0000008	.0000021
11	.0000001	.0000003

n = 144

c/r	.001	.002	.003	.004	.005	.006	.007	.008
1	.1341746	.2504546	.3512120	.4385065	.5141260	.5796226	.6363431	.6854564
2	.0093710	.0341529	.0700922	.1137874	.1625388	.2142241	.2671930	.3201801
3	.0004386	.0031598	.0096106	.0205447	.0362148	.0565220	.0811309	.1095570
4	.0000154	.0002199	.0009964	.0028199	.0061679	.0114642	.0190477	.0291579
5	.0000004	.0000122	.0000827	.0003106	.0008455	.0018770	.0036207	.0063025
6		.0000006	.0000057	.0000285	.0000866	.0002566	.0005757	.0011416
7			.0000003	.0000023	.0000084	.0000300	.0000784	.0001774
8				.0000002	.0000008	.0000031	.0000093	.0000241
9					.0000001	.0000003	.0000010	.0000029
10							.0000001	.0000003
11								

c/r	.009	.010
1	.7279746	.7647834
2	.3723326	.4186501
3	.1412383	.1755538
4	.0419388	.0574135
5	.0101436	.0153484
6	.0020600	.0034518
7	.0003598	.0006678
8	.0000548	.0001138
9	.0000074	.0000169
10	.0000009	.0000023
11	.0000001	.0000003

n = 145

c/r	.001	.002	.003	.004	.005	.006	.007	.008
1	.1350405	.2519537	.3531584	.4407525	.5165554	.5821449	.6388887	.6879720
2	.0094953	.0345855	.0709356	.1150862	.1642960	.2164165	.2697770	.3231023
3	.0004475	.0032218	.0097921	.0209177	.0368464	.0574682	.0834333	.1112420
4	.0000158	.0002258	.0010222	.0028908	.0063181	.0117346	.0194823	.0298010
5	.0000004	.0000126	.0000854	.0003207	.0008781	.0019345	.0037887	.0064853
6		.0000006	.0000059	.0000296	.0001004	.0002663	.0005970	.0011828
7			.0000004	.0000023	.0000099	.0000314	.0000819	.0001851
8				.0000002	.0000008	.0000032	.0000098	.0000253
9					.0000001	.0000003	.0000010	.0000031
10							.0000001	.0000003
11								

$$P(c,n,p) = \sum_{r=0}^{c} \binom{n}{r} p^r (1-p)^{n-r}$$

c/p	.009	.010
1	.7304248	.7671355
2	.3754343	.4260714
3	.1433113	.1780248
4	.0428263	.0565949
5	.0104297	.0157691
6	.0021387	.0038708
7	.0003746	.0006950
8	.0000575	.0001184
9	.0000078	.0000179
10	.0000010	.0000024
11	.0000001	.0000003

n = 146

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1359034	.2834498	.3550989	.4429898	.5189706	.5846520	.6414165	.6904690
2	.0096813	.0350203	.0717823	.1163889	.1660581	.2186109	.2723608	.3260818
3	.0004566	.0032845	.0099755	.0219944	.0374837	.0564819	.0837447	.1129368
4	.0000162	.0002318	.0010485	.0029629	.0064708	.0120090	.0199830	.0304586
5	.0000005	.0000131	.0000882	.0003310	.0008993	.0019933	.0038390	.0066710
6		.0000006	.0000063	.0000308	.0001042	.0002764	.0006189	.0012853
7			.0000004	.0000024	.0000103	.0000328	.0000855	.0001931
8				.0000002	.0000009	.0000034	.0000103	.0000266
9					.0000001	.0000003	.0000011	.0000032
10							.0000001	.0000004
11								

c/p	.009	.010
1	.7328810	.7694642
2	.3786292	.4294681
3	.1454004	.1805053
4	.0437306	.0597092
5	.0107218	.0161973
6	.0022074	.0036928
7	.0003904	.0007238
8	.0000603	.0001241
9	.0000083	.0000189
10	.0000010	.0000026
11	.0000001	.0000003

n = 147

c/p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1367695	.2849429	.3570336	.4452175	.5213778	.5871441	.6439266	.6929453
2	.0097476	.0354571	.0726322	.1176983	.1678206	.2200072	.2744442	.3299368
3	.0004657	.0033480	.0101609	.0216747	.0381265	.0593830	.0850650	.1146418
4	.0000167	.0002379	.0010753	.0030362	.0066258	.0122875	.0203697	.0311284
5	.0000005	.0000135	.0000911	.0003415	.0009278	.0020534	.0039516	.0068621
6		.0000006	.0000064	.0000320	.0001082	.0002867	.0006415	.0012888
7			.0000004	.0000026	.0000106	.0000343	.0000893	.0002013
8				.0000002	.0000009	.0000036	.0000108	.0000475
9					.0000001	.0000003	.0000012	.0000054
10							.0000001	.0000004
11								

c/p	.009	.010
1	.7358383	.7717695
2	.3818172	.4328819
3	.1474995	.1829950
4	.0446456	.0609964
5	.0110183	.0168333
6	.0023840	.0038172
7	.0004067	.0007535
8	.0000633	.0001301
9	.0000087	.0000199
10	.0000011	.0000027
11	.0000001	.0000003

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

n = 146

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1376327	.2564330	.3589625	.4474366	.5237709	.5896212	.6464191	.6954017
2	.0098746	.0358961	.0734854	.1190054	.1695904	.2230052	.2775271	.3318489
3	.0004750	.0034122	.0103483	.0220588	.0387750	.0603516	.0863942	.1163559
4	.0000171	.0002441	.0011026	.0031108	.0067833	.0125700	.0208226	.0317807
5	.0000005	.0000139	.0000941	.0003523	.0009557	.0021148	.0040665	.0070561
6		.0000007	.0000047	.0000332	.0001123	.0002973	.0006647	.0013136
7			.0000004	.0000027	.0000113	.0000358	.0000931	.0002098
8				.0000002	.0000010	.0000038	.0000114	.0000293
9					.0000001	.0000003	.0000012	.0000036
10							.0000001	.0000004
11								

c\p	.009	.010
1	.7376386	.7740518
2	.3849962	.4362708
3	.1466084	.1854939
4	.0455713	.0622164
5	.0113210	.0170769
6	.0023626	.0039454
7	.0004236	.0007841
8	.0000664	.0001364
9	.0000092	.0000210
10	.0000011	.0000029
11	.0000001	.0000004

n = 149

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1364951	.2574201	.3608856	.4496469	.5261520	.5920835	.6488942	.6978385
2	.0100024	.0363372	.0743419	.1203191	.1713613	.2252049	.2801093	.3347573
3	.0004844	.0034772	.0105377	.0224466	.0394291	.0613275	.0877321	.1180798
4	.0000176	.0002504	.0011303	.0031866	.0069433	.0126567	.0212816	.0324573
5	.0000005	.0000144	.0000971	.0003633	.0009848	.0021776	.0041838	.0072539
6		.0000007	.0000069	.0000345	.0001165	.0003084	.0006885	.0013595
7			.0000004	.0000028	.0000118	.0000373	.0000971	.0002187
8				.0000002	.0000010	.0000039	.0000120	.0000307
9					.0000001	.0000004	.0000013	.0000038
10							.0000001	.0000004
11								

c\p	.009	.010
1	.7399993	.7763113
2	.3881719	.4396486
3	.1517269	.1880017
4	.0465076	.0634492
5	.0116292	.0175283
6	.0024433	.0040767
7	.0004411	.0008157
8	.0000696	.0001428
9	.0000097	.0000222
10	.0000012	.0000031
11	.0000001	.0000004

n = 150

c\p	.001	.002	.003	.004	.005	.006	.007	.008
1	.1353564	.2594043	.3628030	.4510483	.5265213	.5915310	.6481319	.6982558
2	.0101309	.0367805	.0752015	.1216364	.1731353	.2274061	.2826908	.3376680
3	.0004939	.0035429	.0107391	.0228381	.0400888	.0623108	.0890788	.1198133
4	.0000180	.0002565	.0011585	.0032636	.0071057	.0131476	.0217467	.0331423
5	.0000005	.0000149	.0001002	.0003746	.0010146	.0022416	.0043033	.0073555
6		.0000007	.0000072	.0000359	.0001209	.0003194	.0007129	.0014067
7			.0000004	.0000029	.0000123	.0000390	.0001013	.0002378
8				.0000002	.0000011	.0000041	.0000126	.0000322
9					.0000001	.0000004	.0000014	.0000040
10							.0000001	.0000005
11								

$$P(c,n,p) = \sum_{r=c}^{n} \binom{n}{r} p^r (1-p)^{n-r}$$

c \ p	.009	.010
1	.7423393	.7765402
2	.3913384	.4430152
3	.1538549	.1905101
4	.0474546	.0646947
5	.0119431	.0179875
6	.0025259	.0042112
7	.0004591	.0008403
8	.0000730	.0001496
9	.0000103	.0000234
10	.0000013	.0000033
11	.0000001	.0000004

U.S. GOVERNMENT PRINTING OFFICE:1972-714-583/50

(AMCRD-TV)

FOR THE COMMANDER:

OFFICIAL:

W. J. PHILLIPS
Colonel, GS
Chief, HQ Admin Mgt Ofc

CHARLES T. HORNER, JR.
Major General, USA
Chief of Staff

DISTRIBUTION:
Special

ENGINEERING DESIGN HANDBOOKS

Available to AMC activities, DOD agencies, and Government agencies from Letterkenny Army Depot, Chambersburg, PA 17201. Available to contractors and universities from National Technical Information Service (NTIS), Department of Commerce, Springfield, VA 22151 EXCEPT WHERE NOTED.

No. AMCP 706-	Title
100	Design Guidance for Producibility
104	Value Engineering
106#	Elements of Armament Engineering, Part One, Sources of Energy
107#	Elements of Armament Engineering, Part Two, Ballistics
108#	Elements of Armament Engineering, Part Three, Weapon Systems and Components
109	Tables of the Cumulative Binomial Probabilities
110	Experimental Statistics, Section 1, Basic Concepts and Analysis of Measurement Data
111	Experimental Statistics, Section 2, Analysis of Enumerative and Classificatory Data
112	Experimental Statistics, Section 3, Planning and Analysis of Comparative Experiments
113	Experimental Statistics, Section 4, Special Topics
114	Experimental Statistics, Section 5, Tables
115	Environmental Series, Part One, Basic Environmental Concepts
116	*Environmental Series, Part Two, Basic Environmental Factors
120	Criteria for Environmental Control of Mobile Systems
121	Packaging and Pack Engineering
123	Hydraulic Fluids
125	Electrical Wire and Cable
127	Infrared Military Systems, Part One
128(S)#	Infrared Military Systems, Part Two (U)
130	Design for Air Transport and Airdrop of Materiel
132	*Maintenance Engineering
133	*Maintainability Engineering Theory and Practice
134	Maintainability Guide for Design
135	Inventions, Patents, and Related Matters
136	Servomechanisms, Section 1, Theory
137	Servomechanisms, Section 2, Measurement and Signal Converters
138	Servomechanisms, Section 3, Amplification
139	Servomechanisms, Section 4, Power Elements and System Design
140	Trajectories, Differential Effects, and Data for Projectiles
150	Interior Ballistics of Guns
160(S)*	Elements of Terminal Ballistics, Part One, Kill Mechanisms and Vulnerability (U)
161(S)#	Elements of Terminal Ballistics, Part Two, Collection and Analysis of Data Concerning Targets (U)
162(SRD)#	Elements of Terminal Ballistics, Part Three, Application to Missile and Space Targets (U)
165	Liquid-Filled Projectile Design
170(C)*	**Armor and Its Applications (U)
175#	Solid Propellants, Part One
176(C)*	Solid Propellants, Part Two (U)
177	Properties of Explosives of Military Interest
178(C)	+Properties of Explosives of Military Interest, Section 2 (U) (REPLACED BY -177)
179#	**Explosive Trains
180	Principles of Explosive Behavior
181	*Explosions in Air, Part One
182(S)#	*Explosions in Air, Part Two (U)
185#	Military Pyrotechnics, Part One, Theory and Application
186	Military Pyrotechnics, Part Two, Safety, Procedures and Glossary
187#	Military Pyrotechnics, Part Three, Properties of Materials Used in Pyrotechnic Compositions
188#	*Military Pyrotechnics, Part Four, Design of Ammunition for Pyrotechnic Effects
189	Military Pyrotechnics, Part Five, Bibliography
190	*Army Weapon System Analysis
191	System Analysis and Cost-Effectiveness
195	*Development Guide for Reliability, Part One, Introduction, Background, and Planning for Army Materiel Requirements
196	*Development Guide for Reliability, Part Two, Design for Reliability
197	*Development Guide for Reliability, Part Three, Reliability Prediction
198	*Development Guide for Reliability, Part Four, Reliability Measurement
199	*Development Guide for Reliability, Part Five, Contracting for Reliability
200	*Development Guide for Reliability, Part Six, Mathematical Appendix and Glossary
201	*Helicopter Engineering, Part One, Preliminary Design
202	*Helicopter Engineering, Part Two, Detail Design
203	Helicopter Engineering, Part Three, Qualification Assurance
204	*Helicopter Performance Testing
205	*Timing Systems and Components
210	Fuzes
211(C)#	Fuzes, Proximity, Electrical, Part One (U)
212(S)#	Fuzes, Proximity, Electrical, Part Two (U)
213(S)#	Fuzes, Proximity, Electrical, Part Three (U)
214(S)#	Fuzes, Proximity, Electrical, Part Four (U)
215(C)#	Fuzes, Proximity, Electrical, Part Five (U)
235	Hardening Weapon Systems Against RF Energy
238	*Recoilless Rifle Weapon Systems
239	*Small Arms Weapon Systems
240(S)#	Grenades (U)
242	Design for Control of Projectile Flight Characteristics (REPLACES -246)
244	Ammunition, Section 1, Artillery Ammunition--General, with Table of Contents, Glossary, and Index for Series
245(C)#	Ammunition, Section 2, Design for Terminal Effects (U)
246	+Ammunition, Section 3, Design for Control of Flight Characteristics (REPLACED BY -242)
247#	Ammunition, Section 4, Design for Projection
248	+Ammunition, Section 5, Inspection Aspects of Artillery Ammunition Design
249	Ammunition, Section 6, Manufacture of Metallic Components of Artillery Ammunition
250	Guns--General
251	Muzzle Devices
252	Gun Tubes
253	*Breech Mechanism Design
255	Spectral Characteristics of Muzzle Flash
260	Automatic Weapons
270	**Propellant Actuated Devices
280	Design of Aerodynamically Stabilized Free Rockets
281(SRD)#	Weapon System Effectiveness (U)
282	+Propulsion and Propellants (REPLACED BY -285)
283	Aerodynamics
284(C)#	Trajectories (U)
285	Elements of Aircraft and Missile Propulsion (REPLACES -282)
286	Structures
290(C)#	Warheads--General (U)
291	Surface-to-Air Missiles, Part One, System Integration
292	Surface-to-Air Missiles, Part Two, Weapon Control
293	Surface-to-Air Missiles, Part Three, Computers
294(S)*	Surface-to-Air Missiles, Part Four, Missile Armament (U)
295(S)#	Surface-to-Air Missiles, Part Five, Countermeasures (U)
296	Surface-to-Air Missiles, Part Six, Structures and Power Sources
297(S)#	Surface-to-Air Missiles, Part Seven, Sample Problem (U)
327	Fire Control Systems--General
329	Fire Control Computing Systems
331	Compensating Elements
335(SRD)#*	*Design Engineers' Nuclear Effects Manual, Volume I, Munitions and Weapon Systems (U)
336(SRD)#*	*Design Engineers' Nuclear Effects Manual, Volume II, Electronic Systems and Logistical Systems (U)
337(SRD)#*	*Design Engineers' Nuclear Effects Manual, Volume III, Nuclear Environment (U)
338(SRD)#*	*Design Engineers' Nuclear Effects Manual, Volume IV, Nuclear Effects (U)
340	Carriages and Mounts--General
341	Cradles
342	Recoil Systems
343	Top Carriages
344	Bottom Carriages
345	Equilibrators
346	Elevating Mechanisms
347	Traversing Mechanisms
350	Wheeled Amphibians
355	The Automotive Assembly
356	Automotive Suspensions
357	Automotive Bodies and Hulls
360	*Military Vehicle Electrical Systems
445	Sabot Technology Engineering

*UNDER PREPARATION--not available
+OBSOLETE--out of stock
**REVISION UNDER PREPARATION
#NOT AVAILABLE FROM NTIS