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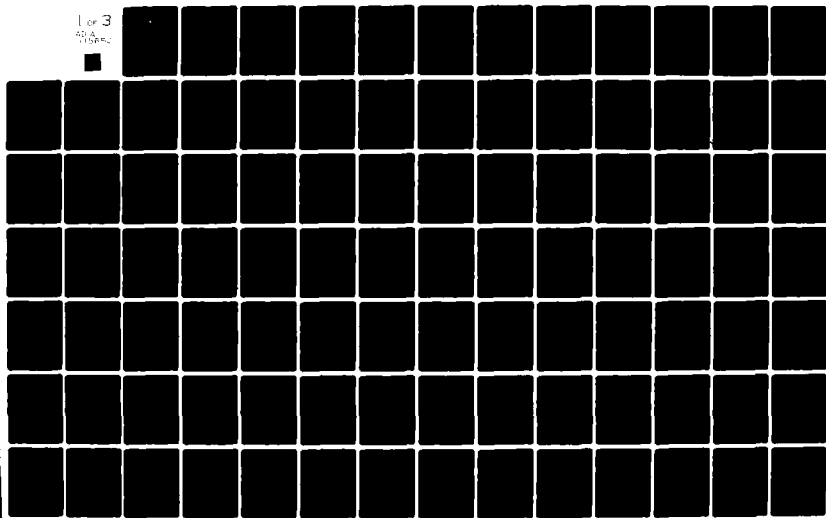
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ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE COVARIATE--ETC(U)
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ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE
COVARIATES AND FORECAST CAPABILITY

Joseph J. Franz
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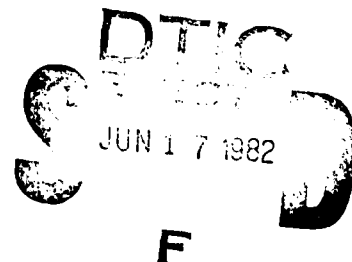
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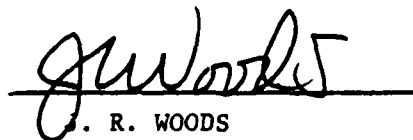
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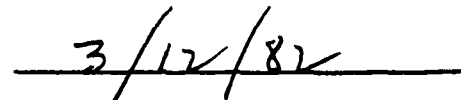
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SUMMARY

This report documents the modifications to a U.C.L.A. Biomedical Mathematics Department (BMD) Analysis-of-Covariance Statistical Computer Program. The computer code was revised by the NAVAIRDEVCON to increase the computational accuracy and formulate output solutions in a form more suitable to the solution of engineering type problems.

The Covariance Statistical Model was used to successfully formulate empirical correlation equations which relate vehicle aftend drag with the complicated external flow field, the propulsion system, and the aircraft design parameters.

The program and supporting subroutines are written in FORTRAN for use on a CDC 6600 Computer. The appendices of this report include a sample problem input/output listing, computer program listing, a program user's guide, and the Analysis-of-Covariance statistical model.

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INTRODUCTION

Modifications to a U.C.L.A. Biomedical Mathematics Department Analysis-of-Covariance (BMD04V) Statistical Computer Program (reference (a)) were developed by NAVAIRDEVCEEN to successfully formulate empirical correlation equations which relate aircraft aftend drag with external flow field parameters and aircraft design parameters. The modifications to the computer code were developed during a NAVAIR sponsored Aft Fuselage Twin Nozzle Fighter-Type Aircraft Drag Project. The project involved the correlation of a large data base of aircraft fuselage drag measurements obtained from various wind tunnel fighter models which contained geometric and flight performance variations.

This report will describe the unique capabilities of the Covariance Analyses and the extensive improvements to the original computer code which make it a valuable tool for use in analyzing a variety of engineering problems.

METHODOLOGY

In general, the Analysis-of-Covariance statistical model can be applied to any engineering problem for which a data base of dependent and independent variables exists and for which a requirement exists to relate the variables through a set of empirical correlation equations. The Analysis-of-Covariance method is not a traditional multiple regression method although it can be degraded to provide all the output normally associated with a total regression. The Analysis-of-Covariance method permits the separation of covariate (independent variables) to allow correlation of the variate (dependent variable) with a single covariate. For example, the method can be used to independently synthesize the functional relationships between each and every independent variable and the related multidependent functional variable. A multiple regression method cannot filter out the multiple effects on a dependent variable which are contributed by several related independent variables. A multiple regression method can be used when only one independent variable exists or when the interdependence of the independent variables is known a priori.

A complete and detailed mathematical formulation of the Analysis-of-Covariance model can be found in any standard statistical text (i.e., references (b) and (c)). For the sake of completeness, a description of the computational procedure is provided in Appendix D.

DISCUSSION

PROGRAM DESCRIPTION

The computer program described in this report can be utilized to compute Analysis-of-Covariance information for one Analysis-of-Variance variable with multiple covariates and unequal treatment group sizes with forecast capability. The statistical method permits the user to designate treatment groups or subdivisions of case input data which demonstrate certain user defined levels consistent with the reduction of scatter of the variate or dependent variable. In addition, covariate parameters may be defined which are common to each treatment group and which reduce the scatter of the variate in each group. The proper covariate parameters for a given problem are those which filter out the common effects and increase the predominant dependence within the treatment groups. The provision for the subdivision of case data into treatment groups provides the Covariance Analysis with the unique capability to synthesize the functional relationship of each independent variable on the dependent variable. The program provides the capability of partitioning the case data into treatment groups through user defined boolean expressions, thus simplifying the subdivision of large input data problems.

The program also provides the capability of transformation of the covariate parameters into complex multivariable functions which may be instrumental in the reduction of the variance of the dependent variable. The term transgeneration is used to include transformations of input variables and creation of new variables prior to the computations performed by the program. By use of the transgeneration option, new variables may be created by performing algebraic, trigonometric, exponential, and logarithmic transformations on the original variables. These variables may either replace the old variables or they may be entirely new variables. For example, suppose that there are two original variables, variable 1 and variable 2. Then a third variable, variable 3, could be created by letting variable 3 be the square root of variable 2.

The program provides output of cross correlation matrices through which an indication can be formed of the independence of each of the covariate parameters. The capability of analyzing the cross correlation between covariate parameters permits the user to select covariates with the least interdependence and thus increase the accuracy of the statistical model. For example, if two covariates are highly correlated, the increased probability exists that either the covariates should be combined or one of the covariates should be removed from the analysis. The cross correlation matrices thus provide a means of filtering candidate covariates for inclusion in the Covariance Analysis.

The Analysis-of-Covariance program provides tables of covariance coefficients, standard errors, computed T-values, and confidence levels. A unique mathematical routine within the program structure calculates the confidence levels for each covariate based on the calculated T-values

and degrees of freedom. This eliminates the need for use of detailed statistical tables which is common for all other statistical methods. The confidence levels permit the user to evaluate the relative merit of each covariate parameter in reducing the total variation and thus assist in synthesizing the unique empirical correlation parameters.

Another unique feature provides output of tables of residual analysis which contain for each case: the variate, the estimated variate based on the covariate analysis, the residual and the percent variation in each treatment group. The residual tables are typically plotted, using any standard existing interactive computer technique, to obtain the scatter of data in each treatment group about the mean of the variates. The graphic residual variation provides a definitive representation of the precision attained in the selection of covariates and the trend of any errors in the analysis.

The program also provides the capability of introducing forecast data into the previously defined statistical model in order to test the precision accuracy. This procedure is highly desirable with any statistical analysis, for the introduction of data which is independent of the data utilized to develop the model equations will provide a definitive evaluation of the previous analysis.

A sample input data problem which demonstrates most of the computer program options is included in Appendix A together with the resultant output formulation. A complete listing of the main computer program and the associated subroutine subprograms is presented in Appendix B. A program user's guide (see Appendix C) provides a detailed description of the available program options and defines the sequence and function of each of the program control directives.

PROGRAM STRUCTURE

The Analysis-of-Covariance Computer Code consists of a main program and eight subroutines written in Fortran language and compatible with the NAVAIRDEVCON CDC 6600 series computer systems. The computer code listing comprising the Covariance Analysis is included with this report in Appendix B.

Program BMD04V

The main program reads the program control cards, reads the input data cards, checks the problem limitations, calculates and prints some of the output values, and controls the calls to the subroutine subprograms.

Subroutine MINV

The subroutine MINV is utilized by the main program to invert the cross-product data matrices associated with the least-square solution of

the Total, Treatment, and Error formulations of the statistical models using the standard Gauss-Jordan method.

Subroutine GRPSEL

The subroutine GRPSEL assigns group designations to each input data case consistent with user defined boolean selection criteria. If the optional boolean selection feature is being used to place cases in their treatment groups, group definition cards are prepared as shown in the user's guide of Appendix C. A diagnostic message is printed for illegal user defined operations.

Subroutine PATTY2

Subroutine PATTY2 prints the data matrices associated with the correlations, cross-products, and inverse of the cross-products for the Total, Treatment, and Error analyses. The routine also prints a diagnostic message for singular inverse cross-product matrices.

Subroutine TG41

Subroutine TG41 performs the various user defined transgenerations of input data. By use of the Transgeneration Cards (see User's Guide, Appendix C), new variables may be created by performing algebraic, trigonometric, exponential, and logarithmic transformations on the original variables. The transgeneration codes permit the formulation of any user defined multiple-variable functional relationship. The routine also prints diagnostic messages for violations of transgeneration code restrictions.

Subroutine TPWD

This subroutine assigns user specified BCD tape number designations to the main program for change and storage of case input data. A diagnostic message is printed for illegal user tape number designations.

Subroutine WRT

The subroutine WRT prints most of the output tables and computational results developed by the main program and the other subroutines.

Subroutine CONF

The subroutine CONF computes the confidence level associated with each input T-value for the corresponding degrees-of-freedom. The routine eliminates the need for detailed statistical tables by providing a rapid calculation of the Student's T-value at the appropriate confidence level for each covariate parameter.

Subroutine LDAY

The subroutine LDAY calculates and prints the current run-time day, month, and year at the top of each page of output.

PROGRAM MODIFICATIONS

A standard Analysis-of-Covariance computer program with multiple covariates has been modified to include data forecast capability, covariate correlation and residual analyses for Total, Treatment, and Error groups. The resulting statistical method represents a more sophisticated analytical tool with increased computational accuracy.

Major modifications to the original computer program were effected in the following categories:

Input/Output Enhancements

1. Input control cards printed in output.
2. Input Data cards printed in output with case and group numbers.
3. Output values printed in scientific notation.
4. Added assigned group number table for null contingency.
5. Added output paging to report style.
6. Added transgenerated data output.

Computational Enhancements

1. Added more efficient matrix inversion method.
2. Added singular matrix definition and diagnostic message.
3. Added covariate correlation matrices.
4. Added forecast data capability.
5. Added estimates of standard deviation.
6. Added confidence levels for computed T-values.
7. Added residual analyses.

8. Added ~~maximum~~ residual analyses.
9. Added table of intercepts.
10. Added table of overall covariate means.
11. Added table of sum-squares within.
12. Removed restrictions on covariate storage.

CONCLUSIONS

The Analysis-of-Covariance statistical method can be applied to any engineering problem for which a data base of dependent and independent variables exists and for which a requirement exists to relate the variables through a set of empirical correlation equations.

The Covariance statistical method has been used with success, for the past 7 years, at the NAVAIRDEVCON to formulate empirical correlation equations for a wide variety of engineering problems. The statistical method has more capability than the traditional multiple regression procedure and is recommended whenever a correlation is required of qualitative and quantitative parameters.

R E F E R E N C E S

- (a) Dixon, W. J., "(BMD) Biomedical Computer Programs," University of California Press, Los Angeles, 1973.
- (b) Bennett, Carl A., and Franklin, Norman L., "Statistical Analysis In Chemistry and the Chemical Industry," Wiley, 1954.
- (c) Scheffe', Henry, "The Analysis of Variance," Wiley, 1959.

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A P P E N D I X A

ANALYSIS OF COVARIANCE COMPUTER PROGRAM
SAMPLE INPUT/OUTPUT LISTING

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DESCRIPTION

The sample case presented in this section is representative of the engineering problems that can be analyzed using the Analysis-of-Covariance statistical method. The example represents a typical aircraft optimum Mach number climb characteristic (dependent variate parameter) in terms of altitude, weight, drag, and ambient temperature (independent covariate parameters). The covariate parameters are related to the variate through partitioning using the treatment groups designators and transgenerated in terms of the multifunctional covariates. This example illustrates the utility of the Covariance Analysis to detect and synthesize the functional relationships between independent and dependent variables.

The input cards for the sample case are presented on pages A-6 through A-13. The first page shows the sample Problem card, the Trans-generation cards, the Group Definition cards, the Label card, the Format card, and the beginning of the variate and covariate parameters. The full list of input variables is continued through page A-13 where the input is terminated with the Covariate Selection card and the finish card.

The output solution for the sample case is presented on pages A-14 through A-128. The output includes the following information: the group means, the correlation matrices, the error analyses, the covariate coefficients, the residual analyses, and the standard deviations. The Analysis-of-Covariance table (page A-59) presents the overall accuracy of the correlations for both the Total and Within analyses. The square root of the mean-square values, which are presented in the table, provides the standard error of the statistical models.

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4488	35000.00090000.000	100.000	0.000
2847	190.476100000.000	100.000	0.000
3052	5000.000100000.000	100.000	0.000
3229	10000.000100000.000	100.000	0.000
3422	15000.000100000.000	100.000	0.000
3670	20000.000100000.000	100.000	0.000
3943	25000.000100000.000	100.000	0.000
4259	30000.000100000.000	100.000	0.000
4327	31000.000100000.000	100.000	0.000
4396	32000.000100000.000	100.000	0.000
2903	0.000120000.000	100.000	0.000
3124	5000.000120000.000	100.000	0.000
3345	10000.000120000.000	100.000	0.000
3575	15000.000120000.000	100.000	0.000
3845	20000.000120000.000	100.000	0.000
4153	25000.000120000.000	100.000	0.000
4216	26000.000120000.000	100.000	0.000
4283	27000.000120000.000	100.000	0.000
3020	0.000145000.000	100.000	0.000
3230	5000.000145000.000	100.000	0.000
3496	10000.000145000.000	100.000	0.000
3780	15000.000145000.000	100.000	0.000
4065	20000.000145000.000	100.000	0.000
4126	21000.000145000.000	100.000	0.000
2520	0.00070000.000	200.000	0.000
2647	5000.00070000.000	200.000	0.000
2782	10000.00070000.000	200.000	0.000
2938	15000.00070000.000	200.000	0.000
3116	20000.00070000.000	200.000	0.000
3340	25000.00070000.000	200.000	0.000
3577	30000.00070000.000	200.000	0.000
3858	35000.00070000.000	200.000	0.000

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2908	38000.000	70000.000	200.000	0.000
2962	37000.000	70000.000	200.000	0.000
4019	38000.000	70000.000	200.000	0.000
2585	0.000	90000.000	200.000	0.000
2734	5000.000	90000.000	200.000	0.000
2897	10000.000	90000.000	200.000	0.000
3083	5000.000	90000.000	200.000	0.000
2298	20000.000	90000.000	200.000	0.000
2539	25000.000	90000.000	200.000	0.000
2822	30000.000	90000.000	200.000	0.000
2884	31000.000	90000.000	200.000	0.000
2948	32000.000	90000.000	200.000	0.000
2619	0.000	100000.000	200.000	0.000
2783	5000.000	100000.000	200.000	0.000
2958	10000.000	100000.000	200.000	0.000
3160	15000.000	100000.000	200.000	0.000
3382	20000.000	100000.000	200.000	0.000
3638	25000.000	100000.000	200.000	0.000
3888	30000.000	100000.000	200.000	0.000
3754	27000.000	100000.000	200.000	0.000
3815	28000.000	100000.000	200.000	0.000
3878	29000.000	100000.000	200.000	0.000
2891	0.000	120000.000	200.000	0.000
2887	5000.000	120000.000	200.000	0.000
3083	10000.000	120000.000	200.000	0.000
3304	15000.000	120000.000	200.000	0.000
3550	20000.000	120000.000	200.000	0.000
3805	21000.000	120000.000	200.000	0.000
3881	22000.000	120000.000	200.000	0.000
3718	23000.000	120000.000	200.000	0.000
3779	24000.000	120000.000	200.000	0.000
2821	142.857	145000.000	200.000	0.000
2032	5000.000	145000.000	200.000	0.000
3236	10000.000	145000.000	200.000	0.000
3477	15000.000	145000.000	200.000	0.000
3529	16000.000	145000.000	200.000	0.000
3584	17000.000	145000.000	200.000	0.000
3641	18000.000	145000.000	200.000	0.000
3057	0.000	7000.000	-50.000	18.000
3284	5000.000	70000.000	-50.000	18.000
3476	10000.000	70000.000	-50.000	18.000
3715	15335.714	70000.000	-50.000	18.000
3930	20000.000	70000.000	-50.000	18.000
4240	25118.048	70000.000	-50.000	18.000
4592	30000.000	70000.000	-50.000	18.000
4918	35000.000	70000.000	-50.000	18.000
5292	40000.000	70000.000	-50.000	18.000
5419	41000.000	70000.000	-50.000	18.000
5488	42000.000	70000.000	-50.000	18.000
5498	43000.000	70000.000	-50.000	18.000
3094	0.000	90000.000	-50.000	18.000
3344	5000.000	90000.000	-50.000	18.000
3620	10000.000	90000.000	-50.000	18.000
3920	15000.000	90000.000	-50.000	18.000
4220	20000.000	90000.000	-50.000	18.000
4503	25000.000	90000.000	-50.000	18.000
4854	30000.000	90000.000	-50.000	18.000
5325	35000.000	90000.000	-50.000	18.000
5439	36000.000	90000.000	-50.000	18.000
5494	37000.000	90000.000	-50.000	18.000

5502	38000.000	90000.000	-50.000	18.000
3174	0.000	100000.000	-50.000	18.000
3455	5000.000	100000.000	-50.000	18.000
3743	10000.000	100000.000	-50.000	18.000
4040	15000.000	100000.000	-50.000	18.000
4350	20476.180	100000.000	-50.000	18.000
4650	25476.180	100000.000	-50.000	18.000
5026	30000.000	100000.000	-50.000	18.000
5495	35000.000	100000.000	-50.000	18.000
5498	36000.000	100000.000	-50.000	18.000
3284	0.000	120000.000	-50.000	18.000
3647	5000.000	120000.000	-50.000	18.000
3935	10000.000	120000.000	-50.000	18.000
4180	14583.333	120000.000	-50.000	18.000
4480	19484.286	120000.000	-50.000	18.000
4892	25000.000	120000.000	-50.000	18.000
4887	26000.000	120000.000	-50.000	18.000
5068	27000.000	120000.000	-50.000	18.000
5156	28000.000	120000.000	-50.000	18.000
5257	29000.000	120000.000	-50.000	18.000
5361	30000.000	120000.000	-50.000	18.000
2532	0.000	145000.000	-50.000	18.000
3807	5000.000	145000.000	-50.000	18.000
4070	10000.000	145000.000	-50.000	18.000
4382	15000.000	145000.000	-50.000	18.000
4759	20000.000	145000.000	-50.000	18.000
4854	21000.000	145000.000	-50.000	18.000
4939	22000.000	145000.000	-50.000	18.000
5022	23000.000	145000.000	-50.000	18.000
5103	24000.000	145000.000	-50.000	18.000
5189	25000.000	145000.000	-50.000	18.000
2848	0.000	70000.000	0.000	18.000
3048	5000.000	70000.000	0.000	18.000
3235	10178.571	70000.000	0.000	18.000
3474	15000.000	70000.000	0.000	18.000
3734	20000.000	70000.000	0.000	18.000
3985	25000.000	70000.000	0.000	18.000
4261	30000.000	70000.000	0.000	18.000
4579	35278.055	70000.000	0.000	18.000
4896	40000.000	70000.000	0.000	18.000
4965	41000.000	70000.000	0.000	18.000
2948	0.000	90000.000	0.000	18.000
3197	5000.000	90000.000	0.000	18.000
3445	10000.000	90000.000	0.000	18.000
3664	15000.000	90000.000	0.000	18.000
3913	20000.000	90000.000	0.000	18.000
4213	25000.000	90000.000	0.000	18.000
4521	30000.000	90000.000	0.000	18.000
4912	35000.000	90000.000	0.000	18.000
4981	36000.000	90000.000	0.000	18.000
3015	0.000	100000.000	0.000	18.000
3269	5000.000	100000.000	0.000	18.000
3505	10000.000	100000.000	0.000	18.000
3736	15000.000	100000.000	0.000	18.000
4019	20000.000	100000.000	0.000	18.000
4310	25000.000	100000.000	0.000	18.000
4652	30000.000	100000.000	0.000	18.000
4732	31000.000	100000.000	0.000	18.000
4816	32000.000	100000.000	0.000	18.000
4901	33000.000	100000.000	0.000	18.000

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3116	0.000120000.000	0.000	18.000
3365	5000.000120000.000	0.000	18.000
3637	10000.000120000.000	0.000	18.000
3909	15000.000120000.000	0.000	18.000
4195	20000.000120000.000	0.000	18.000
4522	25000.000120000.000	0.000	18.000
4597	26000.000120000.000	0.000	18.000
4676	27000.000120000.000	0.000	18.000
4760	28000.000120000.000	0.000	18.000
3263	0.000145000.000	0.000	18.000
3537	5000.000145000.000	0.000	18.000
3810	10000.000145000.000	0.000	18.000
4100	15000.000145000.000	0.000	18.000
4418	20000.000145000.000	0.000	18.000
4480	21000.000145000.000	0.000	18.000
4565	22000.000145000.000	0.000	18.000
2613	0.00070000.000	100.000	18.000
2780	5000.00070000.000	100.000	18.000
2955	10000.00070000.000	100.000	18.000
3128	15000.00070000.000	100.000	18.000
3331	20000.00070000.000	100.000	18.000
3547	25000.00070000.000	100.000	18.000
3606	30000.00070000.000	100.000	18.000
4117	35000.00070000.000	100.000	18.000
4171	36000.00070000.000	100.000	18.000
4230	37000.00070000.000	100.000	18.000
4292	38000.00070000.000	100.000	18.000
4356	39000.00070000.000	100.000	18.000
2711	0.00090000.000	100.000	18.000
2892	5000.00090000.000	100.000	18.000
3076	10000.00090000.000	100.000	18.000
3278	15000.00090000.000	100.000	18.000
3501	20000.00090000.000	100.000	18.000
3753	25000.00090000.000	100.000	18.000
4072	30000.00090000.000	100.000	18.000
4139	31000.00090000.000	100.000	18.000
4212	32000.00090000.000	100.000	18.000
4284	33000.00090000.000	100.000	18.000
2745	0.000100000.000	100.000	18.000
2956	5000.000100000.000	100.000	18.000
3147	10000.000100000.000	100.000	18.000
3351	15000.000100000.000	100.000	18.000
3590	20000.000100000.000	100.000	18.000
3874	25000.000100000.000	100.000	18.000
3936	26000.000100000.000	100.000	18.000
4000	27000.000100000.000	100.000	18.000
4066	28000.000100000.000	100.000	18.000
4135	29000.000100000.000	100.000	18.000
4205	30000.000100000.000	100.000	18.000
2825	0.000120000.000	100.000	18.000
3044	5000.000120000.000	100.000	18.000
3265	10000.000120000.000	100.000	18.000
3499	15000.000120000.000	100.000	18.000
3773	20000.000120000.000	100.000	18.000
3833	21000.000120000.000	100.000	18.000
3895	22000.000120000.000	100.000	18.000
3959	23000.000120000.000	100.000	18.000
4026	24000.000120000.000	100.000	18.000
4095	25000.000120000.000	100.000	18.000
2929	0.000145000.000	100.000	18.000
3172	5000.000145000.000	100.000	18.000
3424	10000.000145000.000	100.000	18.000
3691	15000.000145000.000	100.000	18.000
3750	16000.000145000.000	100.000	18.000
3811	17000.000145000.000	100.000	18.000
3873	18000.000145000.000	100.000	18.000
3937	19000.000145000.000	100.000	18.000
2456	0.00070000.000	200.000	18.000
2555	5000.00070000.000	200.000	18.000
2705	10000.00070000.000	200.000	18.000
2863	15000.00070000.000	200.000	18.000
3042	20000.00070000.000	200.000	18.000
3253	25000.00070000.000	200.000	18.000
3506	30000.00070000.000	200.000	18.000
3797	35000.00070000.000	200.000	18.000
3849	36000.00070000.000	200.000	18.000
3905	37000.00070000.000	200.000	18.000
2521	0.00090000.000	200.000	18.000
2651	5000.00090000.000	200.000	18.000
2819	10000.00090000.000	200.000	18.000
3009	15000.00090000.000	200.000	18.000
3228	20000.00090000.000	200.000	18.000
3472	25000.00090000.000	200.000	18.000
3761	30000.00090000.000	200.000	18.000
3824	31000.00090000.000	200.000	18.000
2557	0.000100000.000	200.000	18.000
2701	5000.000100000.000	200.000	18.000
2881	10000.000100000.000	200.000	18.000
3087	15000.000100000.000	200.000	18.000
3223	20000.000100000.000	200.000	18.000
3378	25000.000100000.000	200.000	18.000
3634	30000.000100000.000	200.000	18.000
3694	31000.000100000.000	200.000	18.000
3756	32000.000100000.000	200.000	18.000
2634	0.000120000.000	200.000	18.000
2807	5000.000120000.000	200.000	18.000
3012	10000.000120000.000	200.000	18.000
3238	15000.000120000.000	200.000	18.000
3490	20000.000120000.000	200.000	18.000
3545	21000.000120000.000	200.000	18.000
3602	22000.000120000.000	200.000	18.000
2737	0.000145000.000	200.000	18.000
2867	5000.000145000.000	200.000	18.000
3173	10000.000145000.000	200.000	18.000
3419	15000.000145000.000	200.000	18.000
3475	16000.000145000.000	200.000	18.000
2926	0.00070000.000	-50.000	36.000
3129	5000.00070000.000	-50.000	36.000
3347	10000.00070000.000	-50.000	36.000
3605	15478.1070000.000	-50.000	36.000
3864	20000.00070000.000	-50.000	36.000
4193	25000.00070000.000	-50.000	36.000
4488	30000.00070000.000	-50.000	36.000
4844	35000.00070000.000	-50.000	36.000
5174	40000.00070000.000	-50.000	36.000
5285	41000.00070000.000	-50.000	36.000
5401	42000.00070000.000	-50.000	36.000
3018	0.00090000.000	-50.000	36.000
3281	5000.00090000.000	-50.000	36.000
3556	10000.00090000.000	-50.000	36.000

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3846	15000.000	10000.000	-50.000	16.000
4131	20000.000	10000.000	-50.000	16.000
4295	25000.000	10000.000	-50.000	16.000
4778	30000.000	10000.000	-50.000	16.000
5189	35000.000	10000.000	-50.000	16.000
5315	40000.000	10000.000	-50.000	16.000
3108	0.000	100000.000	-50.000	16.000
3282	5000.000	100000.000	-50.000	16.000
3686	10000.000	100000.000	-50.000	16.000
3954	15000.000	100000.000	-50.000	16.000
4210	19761.305	100000.000	-50.000	16.000
4528	25000.000	100000.000	-50.000	16.000
4853	30000.000	100000.000	-50.000	16.000
5054	31000.000	100000.000	-50.000	16.000
5147	32000.000	100000.000	-50.000	16.000
5232	33000.000	100000.000	-50.000	16.000
5332	34000.000	100000.000	-50.000	16.000
3263	0.000	120000.000	-50.000	16.000
3538	5000.000	120000.000	-50.000	16.000
3820	10000.000	120000.000	-50.000	16.000
4082	15000.000	120000.000	-50.000	16.000
4405	20000.000	120000.000	-50.000	16.000
4798	25000.000	120000.000	-50.000	16.000
4892	26000.000	120000.000	-50.000	16.000
4992	27000.000	120000.000	-50.000	16.000
5081	28000.000	120000.000	-50.000	16.000
5176	29000.000	120000.000	-50.000	16.000
3293	0.000	145000.000	-50.000	16.000
3693	5000.000	145000.000	-50.000	16.000
3997	10000.000	145000.000	-50.000	16.000
4302	15000.000	145000.000	-50.000	16.000
4671	20000.000	145000.000	-50.000	16.000
4761	21000.000	145000.000	-50.000	16.000
4856	22000.000	145000.000	-50.000	16.000
2747	0.000	70000.000	0.000	16.000
2819	5000.000	70000.000	0.000	16.000
3188	10000.000	70000.000	0.000	16.000
3400	15000.000	70000.000	0.000	16.000
3432	20000.000	70000.000	0.000	16.000
3879	24857.143	70000.000	0.000	16.000
4187	30000.000	70000.000	0.000	16.000
4523	35000.000	70000.000	0.000	16.000
4580	36000.000	70000.000	0.000	16.000
4641	37000.000	70000.000	0.000	16.000
4704	38000.000	70000.000	0.000	16.000
4770	39000.000	70000.000	0.000	16.000
4838	40000.000	70000.000	0.000	16.000
2884	0.000	90000.000	0.000	16.000
3109	5000.000	90000.000	0.000	16.000
3341	10000.000	90000.000	0.000	16.000
3559	15000.000	90000.000	0.000	16.000
3820	20000.000	90000.000	0.000	16.000
4123	25000.000	90000.000	0.000	16.000
4452	30000.000	90000.000	0.000	16.000
4526	31000.000	90000.000	0.000	16.000
4601	32000.000	90000.000	0.000	16.000
4685	33000.000	90000.000	0.000	16.000
4770	34000.000	90000.000	0.000	16.000
4855	35000.000	90000.000	0.000	16.000
2942	0.000	100000.000	0.000	16.000
3178	5000.000	100000.000	0.000	16.000
3399	10000.000	100000.000	0.000	16.000
3645	15000.000	100000.000	0.000	16.000
3923	20000.000	100000.000	0.000	16.000
4233	25000.000	100000.000	0.000	16.000
4587	30000.000	100000.000	0.000	16.000
4668	31000.000	100000.000	0.000	16.000
4754	32000.000	100000.000	0.000	16.000
3026	0.000	120000.000	0.000	16.000
3267	5000.000	120000.000	0.000	16.000
3546	10000.000	120000.000	0.000	16.000
3817	15000.000	120000.000	0.000	16.000
4125	20000.000	120000.000	0.000	16.000
4456	25000.000	120000.000	0.000	16.000
4532	26000.000	120000.000	0.000	16.000
3163	0.000	145000.000	0.000	16.000
3437	5000.000	145000.000	0.000	16.000
3730	10000.000	145000.000	0.000	16.000
4032	15000.000	145000.000	0.000	16.000
4091	16000.000	145000.000	0.000	16.000
4152	17000.000	145000.000	0.000	16.000
4218	18000.000	145000.000	0.000	16.000
4281	19000.000	145000.000	0.000	16.000
4351	20000.000	145000.000	0.000	16.000
2542	0.000	70000.000	100.000	16.000
2690	5000.000	70000.000	100.000	16.000
2848	10000.000	70000.000	100.000	16.000
3026	15000.000	70000.000	100.000	16.000
3241	20000.000	70000.000	100.000	16.000
3464	25000.000	70000.000	100.000	16.000
3727	30000.000	70000.000	100.000	16.000
4046	35000.000	70000.000	100.000	16.000
4104	36000.000	70000.000	100.000	16.000
4166	37000.000	70000.000	100.000	16.000
4232	38000.000	70000.000	100.000	16.000
2623	0.000	90000.000	100.000	16.000
2795	5000.000	90000.000	100.000	16.000
2983	10000.000	90000.000	100.000	16.000
3197	15000.000	90000.000	100.000	16.000
3423	20000.000	90000.000	100.000	16.000
3687	25000.000	90000.000	100.000	16.000
4006	30000.000	90000.000	100.000	16.000
4078	31000.000	90000.000	100.000	16.000
4152	32000.000	90000.000	100.000	16.000
2647	0.000	100000.000	100.000	16.000
2848	5000.000	100000.000	100.000	16.000
3053	10000.000	100000.000	100.000	16.000
3274	15000.000	100000.000	100.000	16.000
3515	20000.000	100000.000	100.000	16.000
3802	25000.000	100000.000	100.000	16.000
3965	30000.000	100000.000	100.000	16.000
3931	27000.000	100000.000	100.000	16.000
4000	28000.000	100000.000	100.000	16.000
2754	0.000	120000.000	100.000	16.000
2953	5000.000	120000.000	100.000	16.000
3191	10000.000	120000.000	100.000	16.000
3429	15000.000	120000.000	100.000	16.000
3704	20000.000	120000.000	100.000	16.000
3764	21000.000	120000.000	100.000	16.000
3826	22000.000	120000.000	100.000	16.000

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2891	23000	000120000.000	100.000	36.000
2868	0.000	145000.000	100.000	36.000
3096	5000	000145000.000	100.000	36.000
2254	00000	000145000.000	100.000	36.000
3629	15000	000145000.000	100.000	36.000
3688	16000	000145000.000	100.000	36.000
2263	0.000	70000.000	200.000	36.000
2471	5000	00070000.000	200.000	36.000
2622	10000	00070000.000	200.000	36.000
2788	15000	00070000.000	200.000	36.000
2973	20000	00070000.000	200.000	36.000
3187	25000	00070000.000	200.000	36.000
3438	30000	00070000.000	200.000	36.000
3733	35000	00070000.000	200.000	36.000
3787	40000	00070000.000	200.000	36.000
2439	0.000	90000.000	200.000	36.000
2572	5000	00090000.000	200.000	36.000
2743	10000	00090000.000	200.000	36.000
2839	15000	00090000.000	200.000	36.000
3165	20000	00090000.000	200.000	36.000
3410	25000	00090000.000	200.000	36.000
3464	30000	00090000.000	200.000	36.000
3519	35000	00090000.000	200.000	36.000
3577	40000	00090000.000	200.000	36.000
3638	45000	00090000.000	200.000	36.000
2479	0.000	100000.000	200.000	36.000
2625	5000	000100000.000	200.000	36.000
2809	10000	000100000.000	200.000	36.000
3018	15000	000100000.000	200.000	36.000
3254	20000	000100000.000	200.000	36.000
3517	25000	000100000.000	200.000	36.000
3575	30000	000100000.000	200.000	36.000
2564	0.000	120000.000	200.000	36.000
2736	5000	000120000.000	200.000	36.000
2943	10000	000120000.000	200.000	36.000
3178	15000	000120000.000	200.000	36.000
2227	18000	000120000.000	200.000	36.000
2278	20000	000120000.000	200.000	36.000
2328	22000	000120000.000	200.000	36.000
2379	24000	000120000.000	200.000	36.000
3432	26000	000120000.000	200.000	36.000
2675	0.000	145000.000	200.000	36.000
2875	5000	000145000.000	200.000	36.000
3115	10000	000145000.000	200.000	36.000
3162	11000	000145000.000	200.000	36.000
3211	12000	000145000.000	200.000	36.000
3280	13000	000145000.000	200.000	36.000
2154	0.000	70000.000	-50.000	-18.000
2485	5418.887	70000.000	-50.000	-18.000
3750	10357.43	70000.000	-50.000	-18.000
3965	15000	00070000.000	-50.000	-18.000
4114	20000	00070000.000	-50.000	-18.000
4374	25000	00070000.000	-50.000	-18.000
4734	30000	00070000.000	-50.000	-18.000
5211	35000	00070000.000	-50.000	-18.000
5474	40000	00070000.000	-50.000	-18.000
5486	41000	00070000.000	-50.000	-18.000
5502	42000	00070000.000	-50.000	-18.000
5505	43000	00070000.000	-50.000	-18.000
5543	44000	00070000.000	-50.000	-18.000
5599	45000	00070000.000	-50.000	-18.000
3165	0.000	90000.000	-50.000	-18.000
3504	5000	00090000.000	-50.000	-18.000
3818	10000	00090000.000	-50.000	-18.000
4050	15000	00090000.000	-50.000	-18.000
4356	20000	00090000.000	-50.000	-18.000
4701	25000	00090000.000	-50.000	-18.000
5100	30000	00090000.000	-50.000	-18.000
5482	35000	00090000.000	-50.000	-18.000
5495	36000	00090000.000	-50.000	-18.000
5500	37000	00090000.000	-50.000	-18.000
5507	38000	00090000.000	-50.000	-18.000
5555	39000	00090000.000	-50.000	-18.000
5611	40000	00090000.000	-50.000	-18.000
3700	0.000	100000.000	-50.000	-18.000
2545	5000	000100000.000	-50.000	-18.000
3882	10000	000100000.000	-50.000	-18.000
4170	15000	000100000.000	-50.000	-18.000
4487	20000	000100000.000	-50.000	-18.000
4808	25000	000100000.000	-50.000	-18.000
5217	30000	000100000.000	-50.000	-18.000
5500	35000	000100000.000	-50.000	-18.000
5509	36000	000100000.000	-50.000	-18.000
5548	37000	000100000.000	-50.000	-18.000
5629	38000	000100000.000	-50.000	-18.000
3346	0.000	120000.000	-50.000	-18.000
3707	5000	000120000.000	-50.000	-18.000
4078	10000	000120000.000	-50.000	-18.000
4378	15000	000120000.000	-50.000	-18.000
4672	20000	000120000.000	-50.000	-18.000
5026	25000	000120000.000	-50.000	-18.000
5488	30000	000120000.000	-50.000	-18.000
5489	31000	000120000.000	-50.000	-18.000
5507	32000	000120000.000	-50.000	-18.000
5547	33000	000120000.000	-50.000	-18.000
5608	34000	000120000.000	-50.000	-18.000
3455	0.000	145000.000	-50.000	-18.000
3857	5000	000145000.000	-50.000	-18.000
4254	10000	000145000.000	-50.000	-18.000
4555	14523.810	145000.000	-50.000	-18.000
4925	20000	000145000.000	-50.000	-18.000
5242	25000	000145000.000	-50.000	-18.000
5438	30000	000145000.000	-50.000	-18.000
5494	35000	000145000.000	-50.000	-18.000
5501	36000	000145000.000	-50.000	-18.000
2925	0.000	70000.000	0.000	-18.000
3190	5000	00070000.000	0.000	-18.000
3473	10000	00070000.000	0.000	-18.000
3865	14484.286	70000.000	0.000	-18.000
3885	20000	00070000.000	0.000	-18.000
4140	25238.085	70000.000	0.000	-18.000
4415	30000	00070000.000	0.000	-18.000
4731	35000	00070000.000	0.000	-18.000
5046	40000	00070000.000	0.000	-18.000
5159	41000	00070000.000	0.000	-18.000
5240	42000	00070000.000	0.000	-18.000
5275	43000	00070000.000	0.000	-18.000
5285	44000	00070000.000	0.000	-18.000
3005	0.000	90000.000	0.000	-18.000
3210	5000	00090000.000	0.000	-18.000

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3601	10000.000	90000.000	0.000	-18.000
3667	15000.000	90000.000	0.000	-18.000
4112	20000.000	90000.000	0.000	-18.000
4354	25000.000	90000.000	0.000	-18.000
4465	30000.000	90000.000	0.000	-18.000
5086	35000.000	90000.000	0.000	-18.000
5182	36000.000	90000.000	0.000	-18.000
5259	37000.000	90000.000	0.000	-18.000
5328	38000.000	90000.000	0.000	-18.000
5402	39000.000	90000.000	0.000	-18.000
3082	0.000	100000.000	0.000	-18.000
3383	5000.000	100000.000	0.000	-18.000
3689	10000.000	100000.000	0.000	-18.000
3859	15000.000	100000.000	0.000	-18.000
4176	20000.000	100000.000	0.000	-18.000
4460	25000.000	100000.000	0.000	-18.000
4797	30000.000	100000.000	0.000	-18.000
5273	35000.000	100000.000	0.000	-18.000
5343	36000.000	100000.000	0.000	-18.000
3172	0.000	120000.000	0.000	-18.000
3511	5000.000	120000.000	0.000	-18.000
3822	10000.000	120000.000	0.000	-18.000
4074	15000.000	120000.000	0.000	-18.000
4243	20000.000	120000.000	0.000	-18.000
4467	25000.000	120000.000	0.000	-18.000
5107	30000.000	120000.000	0.000	-18.000
5196	31000.000	120000.000	0.000	-18.000
5284	32000.000	120000.000	0.000	-18.000
3270	0.000	145000.000	0.000	-18.000
3621	5000.000	145000.000	0.000	-18.000
3875	10000.000	145000.000	0.000	-18.000
4247	15000.000	145000.000	0.000	-18.000
4562	20000.000	145000.000	0.000	-18.000
4840	25000.000	145000.000	0.000	-18.000
5029	26000.000	145000.000	0.000	-18.000
2648	0.000	70000.000	100.000	-18.000
2898	5000.000	70000.000	100.000	-18.000
3132	10000.000	70000.000	100.000	-18.000
3333	15000.000	70000.000	100.000	-18.000
3508	20000.000	70000.000	100.000	-18.000
3722	25000.000	70000.000	100.000	-18.000
3964	30000.000	70000.000	100.000	-18.000
4242	35000.000	70000.000	100.000	-18.000
4510	40000.000	70000.000	100.000	-18.000
4574	41000.000	70000.000	100.000	-18.000
2750	0.000	90000.000	100.000	-18.000
3019	5000.000	90000.000	100.000	-18.000
3259	10000.000	90000.000	100.000	-18.000
3449	15000.000	90000.000	100.000	-18.000
3667	20000.000	90000.000	100.000	-18.000
3815	25000.000	90000.000	100.000	-18.000
4201	30000.000	90000.000	100.000	-18.000
4525	35000.000	90000.000	100.000	-18.000
4589	36000.000	90000.000	100.000	-18.000
2783	0.000	100000.000	100.000	-18.000
3054	5000.000	100000.000	100.000	-18.000
3312	10000.000	100000.000	100.000	-18.000
3517	15000.000	100000.000	100.000	-18.000
3749	20000.000	100000.000	100.000	-18.000
4014	25000.000	100000.000	100.000	-18.000
4317	30000.000	100000.000	100.000	-18.000
4380	31000.000	100000.000	100.000	-18.000
4446	32000.000	100000.000	100.000	-18.000
4517	33000.000	100000.000	100.000	-18.000
2885	0.000	120000.000	100.000	-18.000
3150	5000.000	120000.000	100.000	-18.000
3425	10000.000	120000.000	100.000	-18.000
3654	15000.000	120000.000	100.000	-18.000
3914	20000.000	120000.000	100.000	-18.000
4209	25000.000	120000.000	100.000	-18.000
4274	26000.000	120000.000	100.000	-18.000
4339	27000.000	120000.000	100.000	-18.000
4405	28000.000	120000.000	100.000	-18.000
2987	0.000	145000.000	100.000	-18.000
3299	5000.000	145000.000	100.000	-18.000
3571	10000.000	145000.000	100.000	-18.000
3831	15000.000	145000.000	100.000	-18.000
4118	20000.000	145000.000	100.000	-18.000
4178	21000.000	145000.000	100.000	-18.000
4240	22000.000	145000.000	100.000	-18.000
4207	23000.000	145000.000	100.000	-18.000
2515	0.000	70000.000	200.000	-18.000
2724	5000.000	70000.000	200.000	-18.000
2867	10000.000	70000.000	200.000	-18.000
3021	15000.000	70000.000	200.000	-18.000
3212	20000.000	70000.000	200.000	-18.000
3417	25000.000	70000.000	200.000	-18.000
3645	30000.000	70000.000	200.000	-18.000
3915	35000.000	70000.000	200.000	-18.000
3965	36000.000	70000.000	200.000	-18.000
4015	37000.000	70000.000	200.000	-18.000
4069	38000.000	70000.000	200.000	-18.000
4125	39000.000	70000.000	200.000	-18.000
4184	40000.000	70000.000	200.000	-18.000
2572	0.000	90000.000	200.000	-18.000
2799	5000.000	90000.000	200.000	-18.000
2977	10000.000	90000.000	200.000	-18.000
3163	15000.000	90000.000	200.000	-18.000
3372	20000.000	90000.000	200.000	-18.000
3604	25000.000	90000.000	200.000	-18.000
3880	30000.000	90000.000	200.000	-18.000
3940	31000.000	90000.000	200.000	-18.000
4002	32000.000	90000.000	200.000	-18.000
4066	33000.000	90000.000	200.000	-18.000
4131	34000.000	90000.000	200.000	-18.000
2604	0.000	100000.000	200.000	-18.000
2838	5000.000	100000.000	200.000	-18.000
3036	10000.000	100000.000	200.000	-18.000
3233	15000.000	100000.000	200.000	-18.000
3451	20000.000	100000.000	200.000	-18.000
3704	25000.000	100000.000	200.000	-18.000
3998	30000.000	100000.000	200.000	-18.000
4062	31000.000	100000.000	200.000	-18.000
2669	0.000	120000.000	200.000	-18.000
2922	5000.000	120000.000	200.000	-18.000
3157	10000.000	120000.000	200.000	-18.000
3369	15000.000	120000.000	200.000	-18.000
3613	20000.000	120000.000	200.000	-18.000
3897	25000.000	120000.000	200.000	-18.000
3958	26000.000	120000.000	200.000	-18.000

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.2765	0.000145000.000	200.000	-18.000
.3024	5060.000145000.000	200.000	-18.000
.3299	10000.000145000.000	200.000	-18.000
.3528	15000.000145000.000	200.000	-18.000
.3595	16000.000145000.000	200.000	-18.000
.3647	17000.000145000.000	200.000	-18.000
.3701	18000.000145000.000	200.000	-18.000
.3757	19000.000145000.000	200.000	-18.000
.3814	20000.000145000.000	200.000	-18.000

CVRSEL27071864180616261008271123132825201430051543214731424636
FINISH

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FRIDAY, JUL 2, 1976

JMD04V - ANALYSIS OF COVARIANCE - MULTIPLE COVARIATES - REVISED OCTOBER 2, 1972
HEALTH SCIENCES COMPUTING FACILITY, UCLA (NADC REVISION JULY 2, 1976 J.J. FRANZ)

PROBLM4MACDT0200770010503101VES005 H002VESYESYES YES H0VES740001

PROBLEM CODE.....4MACDT
NUMBER OF TREATMENT GROUPS..... 2
TOTAL NUMBER OF CASES..... 770
NUMBER OF CARDS PER CASE..... 1
NUMBER OF ENTERING VARIABLES..... 5
NUMBER OF VARIABLES ADDED..... 31
INDEX OF THE DEPENDENT VARIABLE..... 1
PRINT DATA INPUT..... YES
NUMBER OF VARIABLES NAMED..... 5
USE DATA CARDS OF LAST PROBLEM..... NO
NUMBER OF GROUP DEFINITION CARDS..... 2
PRINT RESIDUALS (WITHIN)..... YES
PRINT RESIDUALS (TOTAL)..... YES
PRINT TRANSGENERATED VARIABLES..... YES
PRINT CORRELATION MATRICES..... YES
FORECAST DATA INPUT..... NO
REWIND INPUT TAPE..... YES
NUMBER OF TRANSGENERATION CARDS..... 74
SPECIFIED BCD TAPE NUMBER..... 0
NUMBER OF VARIABLE FORMAT CARDS..... 1

FRIDAY, JUL 2, 1976

TRANS-GENERATION CARDS

CARD NEW TRANS OLD CONST.
NO. VAR. CODE VAR(A) OR VAR(B)

1	2	9	2	.00010
2	3	9	3	.00010
3	4	10	2	.50000
4	7	10	2	1.50000
5	8	10	3	-.50000
6	9	13	3	3.00000
7	10	13	9	3.00000
8	11	13	4	4.00000
9	12	13	5	5.00000
10	13	13	12	5.00000
11	14	13	6	8.00000
12	15	13	7	10.00000
13	16	13	7	8.00000
14	17	13	7	10.00000
15	18	13	4	5.00000
16	19	13	4	7.00000
17	20	13	4	8.00000
18	21	13	4	10.00000
19	22	13	11	6.00000
20	23	13	11	7.00000
21	24	13	11	8.00000
22	25	13	11	10.00000
23	26	13	5	6.00000
24	27	13	5	7.00000
25	28	13	5	8.00000
26	29	13	5	10.00000
27	30	13	13	6.00000
28	31	13	13	7.00000
29	32	13	13	8.00000
30	33	13	13	10.00000
31	34	13	5	4.00000
32	35	13	5	11.00000
33	36	13	13	4.00000
34	37	13	13	11.00000
35	38	13	5	14.00000
36	39	13	5	15.00000
37	40	13	5	16.00000
38	41	13	5	17.00000
39	42	13	5	18.00000
40	43	13	5	19.00000
41	44	13	5	20.00000
42	45	13	5	21.00000
43	46	13	5	22.00000
44	47	13	5	23.00000
45	48	13	5	24.00000
46	49	13	5	25.00000
47	50	13	13	14.00000
48	51	13	13	15.00000
49	52	13	13	16.00000
50	53	13	13	17.00000

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TRANS-GENERATION CARDS

CARD NEW TRANS OLD CONST.
NO. VAR. CODE VAR(1) OR VAR(2)

51	54	13	13	18.00000
52	55	13	13	19.00000
53	56	13	13	20.00000
54	57	13	13	21.00000
55	58	13	13	22.00000
56	59	13	13	23.00000
57	60	13	13	24.00000
58	61	13	13	25.00000
59	62	13	18	4.00000
60	63	13	42	10.00000
61	64	13	43	8.00000
62	65	13	45	7.00000
63	66	13	46	8.00000
64	67	13	46	10.00000
65	68	13	47	8.00000
66	69	13	47	10.00000
67	70	13	50	4.00000
68	71	13	51	4.00000
69	72	13	52	4.00000
70	73	13	53	4.00000
71	74	13	58	8.00000
72	75	13	58	10.00000
73	76	13	59	8.00000
74	77	13	59	10.00000

GROUP DEFINITION CARDS

A CASE IS IN GROUP 1 IF.
VAR(5) IS LE 0.00000 *

A CASE IS IN GROUP 2 IF.
VAR(5) IS GT 0.00000 *

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LABELS CARDS

0001 MACH 0002 ALT 0003 WT 0004 DC 0005 DT

THE VARIABLE FORMAT CARDS
(10X,F10.4,F10.3)

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GROUP NO. SPECIFIED	NO. ASSIGNED	SAMPLE SIZE
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1	1	401
2	2	349

COVARIATE SELECTION CARDS

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CVASEL27071904180618261008271123132835201430051543214731424036

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DATA INPUT	CASE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	GROUP NUMBER
CASE NUMBER	1	3255	119.048	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	2	3436	5000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	3	3605	10238.095	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	4	3802	15000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	5	4021	20000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	6	4315	25000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	7	4661	30000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	8	5010	35000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	9	5415	40000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	10	5491	41000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	11	5504	42000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	12	5501	43000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	13	5536	44000.000	70000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	14	3298	0.000	80000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	15	3459	5000.000	80000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	
CASE NUMBER	16	3704	10000.000	80000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1	

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DATA INPUT	CASE NUMBER	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	GROUP NUMBER
CASE NUMBER	17	3989	15000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	18	4296	20000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	19	4608	25000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	20	4932	30000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	21	5440	35000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	22	5491	36000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	23	5498	37000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	24	5499	38000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	25	5549	39000.000	90000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	26	3320	0.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	27	3515	4404.762	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	28	3814	10000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	29	4114	15000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	30	4408	20000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	31	4730	24940.476	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1
CASE NUMBER	32	5128	30000.000	100000.000	-50.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1

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DATA INPUT	CASE NUMBER			GROUP NUMBER
	33			
	5499	35000.000100000.000	-50.000	0.000
CASE NUMBER	34			GROUP NUMBER
	5510	36000.000100000.000	-50.000	0.000
CASE NUMBER	35			GROUP NUMBER
	5561	37000.000100000.000	-50.000	0.000
CASE NUMBER	36			GROUP NUMBER
	3453	0.000120000.000	-50.000	0.000
CASE NUMBER	37			GROUP NUMBER
	3728	5000.000120000.000	-50.000	0.000
CASE NUMBER	38			GROUP NUMBER
	4011	10000.000120000.000	-50.000	0.000
CASE NUMBER	39			GROUP NUMBER
	4282	15000.000120000.000	-50.000	0.000
CASE NUMBER	40			GROUP NUMBER
	4568	20000.000120000.000	-50.000	0.000
CASE NUMBER	41			GROUP NUMBER
	4841	25000.000120000.000	-50.000	0.000
CASE NUMBER	42			GROUP NUMBER
	5441	30000.000120000.000	-50.000	0.000
CASE NUMBER	43			GROUP NUMBER
	5490	31000.000120000.000	-50.000	0.000
CASE NUMBER	44			GROUP NUMBER
	5503	32000.000120000.000	-50.000	0.000
CASE NUMBER	45			GROUP NUMBER
	3618	0.000145000.000	-50.000	0.000
CASE NUMBER	46			GROUP NUMBER
	3895	5059.524145000.000	-50.000	0.000
CASE NUMBER	47			GROUP NUMBER
	4200	10416.667145000.000	-50.000	0.000
CASE NUMBER	48			GROUP NUMBER
	4440	14226.190145000.000	-50.000	0.000

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DATA INPUT	CASE NUMBER			GROUP NUMBER
	49			
	4850	20000.000145000.000	-50.000	0.000
CASE NUMBER	50			GROUP NUMBER
	5252	25000.000145000.000	-50.000	0.000
CASE NUMBER	51			GROUP NUMBER
	5153	26000.000145000.000	-50.000	0.000
CASE NUMBER	52			GROUP NUMBER
	2986	0.00070000.000	0.000	0.000
CASE NUMBER	53			GROUP NUMBER
	3170	5000.00070000.000	0.000	0.000
CASE NUMBER	54			GROUP NUMBER
	3345	10000.00070000.000	0.000	0.000
CASE NUMBER	55			GROUP NUMBER
	3545	14583.33370000.000	0.000	0.000
CASE NUMBER	56			GROUP NUMBER
	3818	20000.00070000.000	0.000	0.000
CASE NUMBER	57			GROUP NUMBER
	4091	25000.00070000.000	0.000	0.000
CASE NUMBER	58			GROUP NUMBER
	4375	30178.57170000.000	0.000	0.000
CASE NUMBER	59			GROUP NUMBER
	4667	35000.00070000.000	0.000	0.000
CASE NUMBER	60			GROUP NUMBER
	4960	40000.00070000.000	0.000	0.000
CASE NUMBER	61			GROUP NUMBER
	5029	41000.00070000.000	0.000	0.000
CASE NUMBER	62			GROUP NUMBER
	5100	42000.00070000.000	0.000	0.000
CASE NUMBER	63			GROUP NUMBER
	5183	43000.00070000.000	0.000	0.000
CASE NUMBER	64			GROUP NUMBER
	3036	0.00090000.000	0.000	0.000

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DATA INPUT	CASE NUMBER				GROUP NUMBER
	65				
	.3272	5000.000	90000.000	0.000	0.000
CASE NUMBER	66				
	.3527	10000.000	90000.000	0.000	0.000
CASE NUMBER	67				
	.3778	15000.000	90000.000	0.000	0.000
CASE NUMBER	68				
	.4018	20000.000	90000.000	0.000	0.000
CASE NUMBER	69				
	.4279	25000.000	90000.000	0.000	0.000
CASE NUMBER	70				
	.4579	30000.000	90000.000	0.000	0.000
CASE NUMBER	71				
	.4878	35000.000	90000.000	0.000	0.000
CASE NUMBER	72				
	.5044	36000.000	90000.000	0.000	0.000
CASE NUMBER	73				
	.5117	37000.000	90000.000	0.000	0.000
CASE NUMBER	74				
	.3128	0.000	100000.000	0.000	0.000
CASE NUMBER	75				
	.3360	5000.000	100000.000	0.000	0.000
CASE NUMBER	76				
	.3615	10000.000	100000.000	0.000	0.000
CASE NUMBER	77				
	.3844	15000.000	100000.000	0.000	0.000
CASE NUMBER	78				
	.4101	20000.000	100000.000	0.000	0.000
CASE NUMBER	79				
	.4384	25000.000	100000.000	0.000	0.000
CASE NUMBER	80				
	.4719	30000.000	100000.000	0.000	0.000

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DATA INPUT	CASE NUMBER				GROUP NUMBER
	81				
	.4802	31000.000	100000.000	0.000	0.000
CASE NUMBER	82				
	.4891	32000.000	100000.000	0.000	0.000
CASE NUMBER	83				
	.4979	33000.000	100000.000	0.000	0.000
CASE NUMBER	84				
	.5061	34000.000	100000.000	0.000	0.000
CASE NUMBER	85				
	.5132	35000.000	100000.000	0.000	0.000
CASE NUMBER	86				
	.3260	119.048	120000.000	0.000	0.000
CASE NUMBER	87				
	.3472	5000.000	120000.000	0.000	0.000
CASE NUMBER	88				
	.3727	10000.000	120000.000	0.000	0.000
CASE NUMBER	89				
	.3967	15000.000	120000.000	0.000	0.000
CASE NUMBER	90				
	.4267	20000.000	120000.000	0.000	0.000
CASE NUMBER	91				
	.4594	25000.000	120000.000	0.000	0.000
CASE NUMBER	92				
	.4870	26000.000	120000.000	0.000	0.000
CASE NUMBER	93				
	.4741	27000.000	120000.000	0.000	0.000
CASE NUMBER	94				
	.4822	28000.000	120000.000	0.000	0.000
CASE NUMBER	95				
	.4912	29000.000	120000.000	0.000	0.000
CASE NUMBER	96				
	.5012	30000.000	120000.000	0.000	0.000

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DATA INPUT	CASE NUMBER	97	0.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	97	3284	0.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	98	3823	5000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	99	3900	10000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	100	4171	15000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	101	4491	20000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	102	4558	21000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	103	4834	22000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	104	4712	23000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	105	4781	24000.000145000.000	0.000	0.000	GROUP NUMBER	1
CASE NUMBER	106	2671	0.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	107	2861	5000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	108	3049	10000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	109	3231	15000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	110	3416	20000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	111	3625	25000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	112	3889	30000.000 70000.000	100.000	0.000	GROUP NUMBER	1

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DATA INPUT	CASE NUMBER	113	4186 35000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	114	4238	36000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	115	4294	37000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	116	4352	38000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	117	4411	39000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	118	4473	40000.000 70000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	119	2784	0.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	120	3000	5000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	121	3168	10000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	122	3363	15000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	123	3584	20000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	124	3838	25000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	125	4138	30000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	126	4205	31000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	127	4271	32000.000 90000.000	100.000	0.000	GROUP NUMBER	1
CASE NUMBER	128	4338	33000.000 90000.000	100.000	0.000	GROUP NUMBER	1

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DATA INPUT	CASE NUMBER	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
CASE NUMBER	129	4410	34000.000	90000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	130	4488	35000.000	90000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	131	2847	190.476	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	132	3052	5000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	133	3229	10000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	134	3432	15000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	135	3670	20000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	136	3843	25000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	137	4259	30000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	138	4327	31000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	139	4396	32000.000	100000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	140	2903	0.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	141	3126	5000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	142	2345	10000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	143	2575	15000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	144	3845	20000.000	120000.000	100.000	0.000	GROUP NUMBER	1									

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DATA INPUT	CASE NUMBER	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CASE NUMBER	145	4153	25000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	146	4216	26000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	147	4283	27000.000	120000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	148	3020	0.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	149	3250	5000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	150	3496	10000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	151	3760	15000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	152	4065	20000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	153	4126	21000.000	145000.000	100.000	0.000	GROUP NUMBER	1									
CASE NUMBER	154	2520	0.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	155	2847	5000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	156	2782	10000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	157	2839	15000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	158	3116	20000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	159	3340	25000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	160	3577	30000.000	70000.000	200.000	0.000	GROUP NUMBER	1									

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DATA INPUT	CASE NUMBER	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
CASE NUMBER	161	3858	35000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	162	3908	36000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	163	3962	37000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	164	4019	38000.000	70000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	165	2585	0.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	166	2734	5000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	167	2897	10000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	168	3083	15000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	169	3298	20000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	170	3539	25000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	171	3822	30000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	172	3884	31000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	173	3948	32000.000	90000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	174	2619	0.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	175	2783	5000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	176	2956	10000.000	100000.000	200.000	0.000	GROUP NUMBER	1									

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DATA INPUT	CASE NUMBER	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
CASE NUMBER	177	3160	15000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	178	3382	20000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	179	3639	25000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	180	3698	26000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	181	3754	27000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	182	3815	28000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	183	3878	29000.000	100000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	184	2691	0.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	185	2897	5000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	186	3083	10000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	187	3304	15000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	188	3550	20000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	189	3605	21000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	190	3661	22000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	191	3719	23000.000	120000.000	200.000	0.000	GROUP NUMBER	1									
CASE NUMBER	192	3779	24000.000	120000.000	200.000	0.000	GROUP NUMBER	1									

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DATA INPUT	CASE NUMBER	193	142.857145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	194	.3033	5000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	195	.3236	10000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	196	.3477	15000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	197	.3529	16000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	198	.3584	17000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	199	.3641	18000.000145000.000	200.000	0.000	GROUP NUMBER	1
CASE NUMBER	200	.3657	0.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	201	.3284	5000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	202	.3476	10000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	203	.3715	15535.714 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	204	.3930	20000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	205	.4240	25119.048 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	206	.4542	30000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	207	.4819	35000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	208	.5292	40000.000 70000.000	-50.000	18.000	GROUP NUMBER	2

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DATA INPUT	CASE NUMBER	209	5419 41000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	210	.5488	42000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	211	.5498	43000.000 70000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	212	.3094	0.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	213	.3344	5000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	214	.3620	10000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	215	.3920	15000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	216	.4220	20000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	217	.4503	25000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	218	.4854	30000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	219	.5325	35000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	220	.5439	36000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	221	.5484	37000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	222	.5502	38000.000 90000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	223	.3174	0.000 100000.000	-50.000	18.000	GROUP NUMBER	2
CASE NUMBER	224	.3455	5000.000 100000.000	-50.000	18.000	GROUP NUMBER	2

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DATA INPUT	CASE NUMBER				GROUP NUMBER
	225				2
	3743	10000.000100000.000	-50.000	18.000	2
	226				2
	4040	15000.000100000.000	-50.000	18.000	2
	227				2
	4350	20476.190100000.000	-50.000	18.000	2
	228				2
	4650	25476.190100000.000	-50.000	18.000	2
	229				2
	5026	30000.000100000.000	-50.000	18.000	2
	230				2
	5495	35000.000100000.000	-50.000	18.000	2
	231				2
	5498	36000.000100000.000	-50.000	18.000	2
	232				2
	3364	0.000120000.000	-50.000	18.000	2
	233				2
	3647	5000.000120000.000	-50.000	18.000	2
	234				2
	3835	10000.000120000.000	-50.000	18.000	2
	235				2
	4180	14583.333120000.000	-50.000	18.000	2
	236				2
	4480	19464.286120000.000	-50.000	18.000	2
	237				2
	4892	25000.000120000.000	-50.000	18.000	2
	238				2
	4987	28000.000120000.000	-50.000	18.000	2
	239				2
	5068	27000.000120000.000	-50.000	18.000	2
	240				2
	5156	28000.000120000.000	-50.000	18.000	2

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DATA INPUT	CASE NUMBER				GROUP NUMBER
	241				2
	5257	28000.000120000.000	-50.000	18.000	2
	242				2
	5361	30000.000120000.000	-50.000	18.000	2
	243				2
	3532	0.000145000.000	-50.000	18.000	2
	244				2
	3807	5000.000145000.000	-50.000	18.000	2
	245				2
	4070	10000.000145000.000	-50.000	18.000	2
	246				2
	4382	15000.000145000.000	-50.000	18.000	2
	247				2
	4759	20000.000145000.000	-50.000	18.000	2
	248				2
	4854	21000.000145000.000	-50.000	18.000	2
	249				2
	4939	22000.000145000.000	-50.000	18.000	2
	250				2
	5022	23000.000145000.000	-50.000	18.000	2
	251				2
	5103	24000.000145000.000	-50.000	18.000	2
	252				2
	5189	25000.000145000.000	-50.000	18.000	2
	253				2
	2848	0.00070000.000	0.000	18.000	2
	254				2
	3048	5000.00070000.000	0.000	18.000	2
	255				2
	3275	10178.57170000.000	0.000	18.000	2
	256				2
	3474	15000.00070000.000	0.000	18.000	2

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DATA INPUT	CASE NUMBER	257	3734	20000.000	70000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	258	.3985	25000.000	70000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	259	.4261	30000.000	70000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	260	.4579	35238.095	70000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	261	.4896	40000.000	70000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	262	.4965	41000.000	70000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	263	.2948	0.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	264	.3197	5000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	265	.3445	10000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	266	.3664	15000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	267	.3913	20000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	268	.4213	25000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	269	.4521	30000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	270	.4812	35000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	271	.4981	36000.000	90000.000	0.000	18.000	GROUP NUMBER	2	
CASE NUMBER	272	.3015	0.000	100000.000	0.000	18.000	GROUP NUMBER	2	

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DATA INPUT						GROUP NUMBER	
CASE NUMBER	273	3269	5000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	274	3305	10000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	275	3736	15000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	276	4019	20000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	277	4310	25000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	278	4652	30000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	279	4732	31000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	280	4816	32000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	281	4901	33000.000100000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	282	5116	0.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	283	5365	5000.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	284	5623	10000.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	285	5909	15000.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	286	6195	20000.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	287	6522	25000.000120000.000	0.000	18.000	GROUP NUMBER	2
CASE NUMBER	288	6957	30000.000120000.000	0.000	18.000	GROUP NUMBER	2

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DATA INPUT	CASE NUMBER	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304
		4676	27000.000120000.000	0.000	18.000	GROUP NUMBER	2											
		4760	28000.000120000.000	0.000	18.000	GROUP NUMBER	2											
		3263	0.000145000.000	0.000	18.000	GROUP NUMBER	2											
		3533	5000.000145000.000	0.000	18.000	GROUP NUMBER	2											
		2810	10000.000145000.000	0.000	18.000	GROUP NUMBER	2											
		4100	15000.000145000.000	0.000	18.000	GROUP NUMBER	2											
		4418	20000.000145000.000	0.000	18.000	GROUP NUMBER	2											
		4490	21000.000145000.000	0.000	18.000	GROUP NUMBER	2											
		4565	22000.000145000.000	0.000	18.000	GROUP NUMBER	2											
		2613	0.000 70000.000	100.000	18.000	GROUP NUMBER	2											
		2780	5000.000 70000.000	100.000	18.000	GROUP NUMBER	2											
		2855	10000.000 70000.000	100.000	18.000	GROUP NUMBER	2											
		3128	15000.000 70000.000	100.000	18.000	GROUP NUMBER	2											
		3231	20000.000 70000.000	100.000	18.000	GROUP NUMBER	2											
		3547	25000.000 70000.000	100.000	18.000	GROUP NUMBER	2											
		3806	30000.000 70000.000	100.000	18.000	GROUP NUMBER	2											

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DATA INPUT	CASE NUMBER	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320
		4117	35000.000 70000.000	100.000	18.000	GROUP NUMBER	2										
		4171	36000.000 70000.000	100.000	18.000	GROUP NUMBER	2										
		4220	37000.000 70000.000	100.000	18.000	GROUP NUMBER	2										
		4292	38000.000 70000.000	100.000	18.000	GROUP NUMBER	2										
		4356	39000.000 70000.000	100.000	18.000	GROUP NUMBER	2										
		2711	0.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		2892	5000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		3076	10000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		3278	15000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		3501	20000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		3762	25000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		4072	30000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		4138	31000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		4212	32000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		4284	33000.000 90000.000	100.000	18.000	GROUP NUMBER	2										
		2745	0.000100000.000	100.000	18.000	GROUP NUMBER	2										

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DATA INPUT	CASE NUMBER	321	2956	5000.000100000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	322	3141	10000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	323	3351	15000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	324	3590	20000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	325	3874	25000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	326	3936	26000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	327	4000	27000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	328	4066	28000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	329	4135	29000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	330	4205	30000.000100000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	331	2825	0.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	332	3044	5000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	333	3265	10000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	334	3498	15000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	335	3773	2000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	336	3833	21000.000120000.000	100.000	18.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	337	3895	22000.000120000.000	100.000	18.000	GROUP NUMBER	2
CASE NUMBER	338	3959	23000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	339	4026	24000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	340	4095	25000.000120000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	341	2929	0.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	342	3172	5000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	343	3424	10000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	344	3691	15000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	345	3750	16000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	346	3811	17000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	347	3873	18000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	348	3937	19000.000145000.000	100.000	18.000	GROUP NUMBER	2	
CASE NUMBER	349	2456	0.00070000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	350	2555	5000.00070000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	351	2705	10000.00070000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	352	2863	15000.00070000.000	200.000	18.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168
CASE NUMBER	3042	20000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3253	25000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3504	30000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3797	35000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3849	36000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3905	37000.000	70000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2521	0.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2651	5000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2819	10000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3009	15000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3228	20000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3472	25000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3741	30000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3824	31000.000	90000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2557	0.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2701	5000.000	100000.000	200.000	18.000	GROUP NUMBER	2										

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DATA INPUT	CASE NUMBER	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184
CASE NUMBER	2981	10000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3087	15000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3123	20000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3576	25000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3634	26000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3694	27000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3756	28000.000	100000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2634	0.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2807	5000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3012	10000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3238	15000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3490	20000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3545	21000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	3602	22000.000	120000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2737	0.000	145000.000	200.000	18.000	GROUP NUMBER	2										
CASE NUMBER	2967	5000.000	145000.000	200.000	18.000	GROUP NUMBER	2										

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DATA INPUT	CASE NUMBER	385	3173 10000.000145000.000	200.000	18.000	GROUP NUMBER	2
CASE NUMBER	386	3419 15000.000145000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	387	3475 16000.000145000.000	200.000	18.000	GROUP NUMBER	2	
CASE NUMBER	388	2936 0.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	389	3129 5000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	390	3347 10000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	391	3605 15476 190 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	392	3884 20000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	393	4193 25000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	394	4488 30000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	395	4844 35000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	396	5174 40000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	397	5285 41000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	398	5401 42000.000 70000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	399	5918 0 800 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	400	3281 5000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	401	2554 10000.000 80000.000	-50.000	36.000	GROUP NUMBER	2
CASE NUMBER	402	2848 15000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	403	4131 20000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	404	4395 25000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	405	4778 30000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	406	5189 35000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	407	5315 38000.000 80000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	408	3108 0.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	409	3382 5000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	410	3668 10000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	411	3954 15000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	412	4210 19781.805100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	413	4528 25000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	414	4853 30000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	415	5054 31000.000100000.000	-50.000	36.000	GROUP NUMBER	2	
CASE NUMBER	416	5147 32000.000100000.000	-50.000	36.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER				GROUP NUMBER
	417	5232 32000.000100000.000	-50.000	36.000	2
CASE NUMBER	418	5332 14000.000100000.000	-50.000	36.000	2
CASE NUMBER	419	3263 0.000120000.000	-50.000	36.000	2
CASE NUMBER	420	3538 5000.000120000.000	-50.000	36.000	2
CASE NUMBER	421	3820 10000.000120000.000	-50.000	36.000	2
CASE NUMBER	422	4092 15000.000120000.000	-50.000	36.000	2
CASE NUMBER	423	4405 20000.000120000.000	-50.000	36.000	2
CASE NUMBER	424	4796 25000.000120000.000	-50.000	36.000	2
CASE NUMBER	425	4892 26000.000120000.000	-50.000	36.000	2
CASE NUMBER	426	4992 27000.000120000.000	-50.000	36.000	2
CASE NUMBER	427	5081 28000.000120000.000	-50.000	36.000	2
CASE NUMBER	428	5176 29000.000120000.000	-50.000	36.000	2
CASE NUMBER	429	5293 0.000145000.000	-50.000	36.000	2
CASE NUMBER	430	3693 5000.000145000.000	-50.000	36.000	2
CASE NUMBER	431	3997 10000.000145000.000	-50.000	36.000	2
CASE NUMBER	432	4302 15000.000145000.000	-50.000	36.000	2

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DATA INPUT	CASE NUMBER				GROUP NUMBER
	433	4671 20000.000145000.000	-50.000	36.000	2
CASE NUMBER	434	4781 21000.000145000.000	-50.000	36.000	2
CASE NUMBER	435	4856 22000.000145000.000	-50.000	36.000	2
CASE NUMBER	436	2747 0.000 70000.000	0.000	36.000	2
CASE NUMBER	437	2919 5000.000 70000.000	0.000	36.000	2
CASE NUMBER	438	3168 10000.000 70000.000	0.000	36.000	2
CASE NUMBER	439	3400 15000.000 70000.000	0.000	36.000	2
CASE NUMBER	440	3632 20000.000 70000.000	0.000	36.000	2
CASE NUMBER	441	3879 24857.143 70000.000	0.000	36.000	2
CASE NUMBER	442	4187 30000.000 70000.000	0.000	36.000	2
CASE NUMBER	443	4523 35000.000 70000.000	0.000	36.000	2
CASE NUMBER	444	4580 36000.000 70000.000	0.000	36.000	2
CASE NUMBER	445	4641 37000.000 70000.000	0.000	36.000	2
CASE NUMBER	446	4704 38000.000 70000.000	0.000	36.000	2
CASE NUMBER	447	4770 39000.000 70000.000	0.000	36.000	2
CASE NUMBER	448	4838 40000.000 70000.000	0.000	36.000	2

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DATA INPUT	CASE NUMBER	449	2884	0.000	90000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	450	3109	5000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	451	3241	10000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	452	3559	15000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	453	3820	20000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	454	4123	25000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	455	4452	30000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	456	4526	31000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	457	4601	32000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	458	4685	33000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	459	4770	34000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	460	4855	35000.000	90000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	461	2942	0.000	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	462	3178	5000.000	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	463	3399	10000.000	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	464	3645	15000.000	100000.000	0.000	36.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	465	3923	20000.000	100000.000	0.000	36.000	GROUP NUMBER	2
CASE NUMBER	466	4233 <td>25000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	25000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	467	4587 <td>30000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	30000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	468	4868 <td>31000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	31000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	469	4754 <td>32000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td> </td>	32000.000 <td>100000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	100000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	470	3026	0.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	471	3287	5000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	472	3548	10000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	473	3817	15000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	474	4125	20000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	475	4456	25000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	476	4522	26000.000 <td>120000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	120000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	477	3163	0.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	478	3427	5000.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	479	3730	10000.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	
CASE NUMBER	480	4022	15000.000 <td>145000.000</td> <td>0.000</td> <td>36.000</td> <td>GROUP NUMBER</td> <td>2</td>	145000.000	0.000	36.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
CASE NUMBER	481	16000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	482	17000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	483	18000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	484	19000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	485	20000.000	145000.000	0.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
CASE NUMBER	486	2542	0.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	487	2680	5000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	488	2848	10000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	489	3036	15000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	490	3241	20000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	491	3464	25000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	492	3727	30000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	493	4046	35000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	494	4104	36000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	495	4166	37000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
CASE NUMBER	496	4222	38000.000	70000.000	100.000	36.000	GROUP NUMBER	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

FRIDAY, JUL 2, 1976

DATA INPUT	CASE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	1
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DATA INPUT	CASE NUMBER	513	27000.000100000.000	100.000	36.000	GROUP NUMBER	2
CASE NUMBER	514	40000.000200000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	515	2754 0.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	516	2953 5000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	517	3191 10000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	518	3429 15000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	519	3704 20000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	520	3764 21000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	521	3826 22000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	522	3891 23000.000120000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	523	3868 0.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	524	3096 5000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	525	3356 10000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	526	3629 15000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	527	3688 16000.000145000.000	100.000	36.000	GROUP NUMBER	2	
CASE NUMBER	528	2363 0.000 70000.000	200.000	36.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	529	2471 5000.000 70000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	530	2622 10000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	531	2788 15000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	532	2973 20000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	533	3187 25000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	534	3438 30000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	535	3733 35000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	536	3787 36000.000 70000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	537	2439 0.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	538	2572 5000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	539	2743 10000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	540	2939 15000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	541	3165 20000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	542	3410 25000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	543	3464 26000.000 90000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	544	3519 27000.000 90000.000	200.000	36.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	545	2577 28000.000 80000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	546	3638 28000.000 80000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	547	2479 0.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	548	2825 5000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	549	2809 10000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	550	3018 15000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	551	3254 20000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	552	3517 25000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	553	3575 26000.000 100000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	554	2584 0.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	555	2736 5000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	556	2943 10000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	557	3178 15000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	558	3227 16000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	559	3278 17000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	560	3328 18000.000 120000.000	200.000	36.000	GROUP NUMBER	2	

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DATA INPUT	CASE NUMBER	561	2375 19000.000 120000.000	200.000	36.000	GROUP NUMBER	2
CASE NUMBER	562	2432 20000.000 120000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	563	2675 0.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	564	2875 5000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	565	3115 10000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	566	3162 11000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	567	3211 12000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	568	3260 13000.000 145000.000	200.000	36.000	GROUP NUMBER	2	
CASE NUMBER	569	3156 0.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	570	3465 5418.667 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	571	3750 10357.143 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	572	3965 15000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	573	4116 20000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	574	4374 25000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	575	4734 30000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	576	5211 35000.000 70000.000	-50.000	-18.000	GROUP NUMBER	1	

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DATA INPUT	CASE NUMBER	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592
		5474	40000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5486	41000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5502	42000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5505	43000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5543	44000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		5598	45000.000	70000.000	-50.000	-18.000	GROUP NUMBER	1									
		57145	0.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		3504	5000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		3818	10000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		4030	15000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		4386	20000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		4701	25000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5100	30000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5482	35000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5485	36000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5500	37000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									

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DATA INPUT	CASE NUMBER	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608
		5507	38000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5555	39000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		5611	40000.000	90000.000	-50.000	-18.000	GROUP NUMBER	1									
		3200	0.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		3545	5000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		3882	10000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		4170	15000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		4487	20000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		4808	25000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5217	30000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5500	35000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5509	36000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5566	37000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		5629	38000.000	100000.000	-50.000	-18.000	GROUP NUMBER	1									
		3346	0.000	120000.000	-50.000	-18.000	GROUP NUMBER	1									
		3707	5000.000	120000.000	-50.000	-18.000	GROUP NUMBER	1									

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DATA INPUT	CASE NUMBER	609	4078 10000.000120000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	610	4378 15000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	611	4672 20000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	612	5026 25000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	613	5488 30000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	614	5489 31000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	615	5507 32000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	616	5547 33000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	617	5608 34000.000120000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	618	3455 0.000145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	619	3857 5000.000145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	620	4254 10000.000145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	621	4555 14523.810145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	622	4925 20000.000145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	623	5342 25000.000145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	624	5428 26000.000145000.000	-50.000	-18.000	GROUP NUMBER	1	

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DATA INPUT	CASE NUMBER	625	3494 27000.000145000.000	-50.000	-18.000	GROUP NUMBER	1
CASE NUMBER	626	5501 28000.000145000.000	-50.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	627	2925 0.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	628	3190 5000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	629	3473 10000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	630	3665 14464.286 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	631	3885 20000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	632	4140 25238.095 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	633	44 5 30000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	634	4721 35000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	635	5066 40000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	636	5159 41000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	637	5240 42000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	638	5315 43000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	639	5385 44000.000 70000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	640	5005 0.000 90000.000	0.000	-18.000	GROUP NUMBER	1	

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DATA INPUT	CASE NUMBER	GROUP NUMBER
3310 5000.000 90000.000	0.000	-18.000
3601 10000.000 90000.000	0.000	-18.000
3867 15000.000 90000.000	0.000	-18.000
4112 20000.000 90000.000	0.000	-18.000
4354 25000.000 90000.000	0.000	-18.000
4665 30000.000 90000.000	0.000	-18.000
5086 35000.000 90000.000	0.000	-18.000
5182 38000.000 90000.000	0.000	-18.000
5259 37000.000 90000.000	0.000	-18.000
5328 38000.000 90000.000	0.000	-18.000
5402 39000.000 90000.000	0.000	-18.000
5082 0.000 100000.000	0.000	-18.000
5393 5000.000 100000.000	0.000	-18.000
5369 10000.000 100000.000	0.000	-18.000
5399 15000.000 100000.000	0.000	-18.000
5476 20000.000 100000.000	0.000	-18.000

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DATA INPUT	CASE NUMBER	GROUP NUMBER
4460 25000.000 100000.000	0.000	-18.000
4797 30000.000 100000.000	0.000	-18.000
5273 35000.000 100000.000	0.000	-18.000
5343 38000.000 100000.000	0.000	-18.000
5172 0.000 120000.000	0.000	-18.000
3511 5000.000 120000.000	0.000	-18.000
3832 10000.000 120000.000	0.000	-18.000
4074 15000.000 120000.000	0.000	-18.000
4343 20000.000 120000.000	0.000	-18.000
4667 25000.000 120000.000	0.000	-18.000
5107 30000.000 120000.000	0.000	-18.000
5196 31000.000 120000.000	0.000	-18.000
5286 32000.000 120000.000	0.000	-18.000
3270 0.000 145000.000	0.000	-18.000
3621 5000.000 145000.000	0.000	-18.000
3975 10000.000 145000.000	0.000	-18.000

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DATA INPUT	CASE NUMBER	673	4247 15000.000145000.000	0.000	-18.000	GROUP NUMBER	1
CASE NUMBER	674	4562 20000.000145000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	675	4940 25000.000145000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	676	5029 26000.000145000.000	0.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	677	2648 0.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	678	2898 5000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	679	3133 10000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	680	3333 15000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	681	3508 20000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	682	3722 25000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	683	3964 30000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	684	4242 35000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	685	4510 40000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	686	4574 41000.000 70000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	687	2750 0.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	688	3019 5000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	

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DATA INPUT	CASE NUMBER	689	3259 10000.000 90000.000 <th>100.000 <th>-18.000</th> <th>GROUP NUMBER</th> <th>1</th> </th>	100.000 <th>-18.000</th> <th>GROUP NUMBER</th> <th>1</th>	-18.000	GROUP NUMBER	1
CASE NUMBER	690	3449 15000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	691	3667 20000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	692	3915 25000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	693	4201 30000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	694	4525 35000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	695	4589 36000.000 90000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	696	2783 0.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	697	3054 5000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	698	3312 10000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	699	3517 15000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	700	3749 20000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	701	4014 25000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	702	4317 30000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	703	4380 31000.000100000.000	100.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	704	4446 32000.000100000.000	100.000	-18.000	GROUP NUMBER	1	

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DATA INPUT	CASE NUMBER	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720
		4517	33000.000100000.000	100.000	-18.000	GROUP NUMBER	1										
		2845	0.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3150	5000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3425	10000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3654	15000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		3814	20000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		4209	25000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		4274	26000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		5339	27000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		4405	8000.000120000.000	100.000	-18.000	GROUP NUMBER	1										
		2987	0.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		3299	5000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		3571	10000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		3831	15000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		4118	20000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		4178	21000.000145000.000	100.000	-18.000	GROUP NUMBER	1										

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DATA INPUT	CASE NUMBER	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736
		4240	22000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		4307	23000.000145000.000	100.000	-18.000	GROUP NUMBER	1										
		2515	0.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		2724	5000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		2887	10000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3021	15000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3212	20000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3417	25000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3645	30000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3815	35000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		3985	38000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4015	37000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4088	38000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4125	39000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		4184	40000.00070000.000	200.000	-18.000	GROUP NUMBER	1										
		2572	0.00090000.000	200.000	-18.000	GROUP NUMBER	1										

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DATA INPUT	CASE NUMBER	737	2759 5000.000 90000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	738	2977 10000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	739	3163 15000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	740	3372 20000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	741	3606 25000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	742	3880 30000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	743	3940 31000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	744	4002 32000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	745	4066 33000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	746	4131 34000.000 90000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	747	2604 0.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	748	2838 5000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	749	3036 10000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	750	3233 15000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	751	3451 20000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	752	3704 25000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	

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DATA INPUT	CASE NUMBER	753	3998 30000.000 100000.000	200.000	-18.000	GROUP NUMBER	1
CASE NUMBER	754	4062 31000.000 100000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	755	2689 0.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	756	2922 5000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	757	3157 10000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	758	3369 15000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	759	3613 20000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	760	3897 25000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	761	3958 26000.000 120000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	762	2785 0.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	763	3034 5000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	764	3299 10000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	765	3538 15000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	766	3595 16000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	767	3647 17000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	
CASE NUMBER	768	3701 18000.000 145000.000	200.000	-18.000	GROUP NUMBER	1	

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DATA INPUT							
CASE NUMBER	769					GROUP NUMBER	1
	3757	19000.000145000.000	200.000	-18.000			
CASE NUMBER	770					GROUP NUMBER	1
	3814	20000.000145000.000	200.000	-18.000			

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VARIABLE MEANS FOR EACH GROUP

GROUP NO. 1

(X(7) .3428446E+01) (X(19) .1571350E+03) (DC .5673317E+02) (X(18) .6945226E+02) (X(6) .1317380E+01) (X(16) .1128398E+01)
 (X(28) .1202251E+02) (X(10) .1227600E+04) (X(8) .3219179E+00) (X(27) .3178597E+02) (X(11) .1240025E+05) (X(23) .3744072E+05)
 (X(13) .2937815E+04) (X(28) .2916512E+01) (X(25) .1536565E+08) (X(20) .1825670E+02) (X(14) .4291789E+00) (X(30) .3895293E+04)
 (DT .9067332E+01) (X(15) .3431580E+04) (X(43) .1408095E+04) (X(21) .7052837E+05) (X(47) .3534528E+06) (X(31) .1028865E+05)
 (X(42) .6195607E+03) (X(46) .1441665E+06) (X(36) .1643431E+06) (MACH .4055491E+00)

GROUP NO. 2

(X(7) .2947998E+01) (X(19) .1285165E+02) (DC .5687805E+02) (X(18) .6271224E+02) (X(6) .1244699E+01) (X(16) .9780265E+00)
 (X(28) .3328571E+02) (X(10) .1242583E+04) (X(8) .3209833E+00) (X(27) .7839730E+02) (X(11) .1187689E+05) (X(23) .2895849E+05)
 (X(13) .2585678E+05) (X(28) .8619331E+01) (X(25) .1442844E+08) (X(20) .1771076E+02) (X(14) .4043889E+00) (X(30) .3189213E+05)
 (DT .2682927E+02) (X(15) .2961932E+04) (X(43) .3384588E+04) (X(21) .6526506E+05) (X(47) .7921608E+06) (X(31) .7465061E+05)
 (X(42) .1676125E+04) (X(46) .3724982E+06) (X(36) .1426390E+07) (MACH .3799314E+00)

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TABLE OF MEANS (TOTAL)

VARIABLE	MEAN
X(7)	3197138E+01
X(19)	1434204E+03
DC	5584416E+02
X(8)	6622230E+02
X(6)	1282550E+01
X(16)	1081545E+01
X(26)	9880547E+01
X(10)	1234771E+04
X(8)	3214700E+00
X(27)	2101615E+02
X(11)	1214935E+05
X(23)	3385508E+05
X(13)	1086115E+05
X(28)	2611704E+01
X(25)	1491852E+08
X(20)	1795504E+02
X(14)	4172280E+00
X(30)	1325478E+05
DT	8135065E+01
X(15)	3206520E+04
X(43)	8881271E+03
X(21)	6800608E+05
X(47)	1955490E+06
X(31)	3041080E+05
X(42)	4796213E+03
X(46)	1034280E+06
X(36)	587984E+06
MACH	3932728E+00

CORRELATION MATRIX
FOR TOTAL

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	X(7)	X(19)	DC	X(8)	X(6)	X(16)	X(26)	X(10)
X(7)	1.000000E+01	1480884E+00	1481202E+00	3913292E+01	8955821E+00	9881686E+00	2742821E+01	3284092E+00
X(19)	1480884E+00	1.000000E+01	7415836E+00	9341846E+00	9926531E+00	1640656E+00	018020E+01	3117798E+00
DC	1481202E+00	7415836E+00	1.000000E+01	8853786E+00	9928506E+01	1307539E+00	2279256E+01	1106461E+01
X(8)	3913292E+01	9341846E+00	8853786E+00	1.000000E+01	1334999E+00	5067538E+01	1054992E+02	6994595E+01
X(6)	8955821E+00	1926831E+00	9928506E+01	1334999E+00	1.000000E+01	6586355E+00	8328348E+01	2208900E+00
X(16)	9881686E+00	1640656E+00	1307539E+00	5067538E+01	6586355E+00	1.000000E+01	3105791E+01	4111000E+00
X(26)	2742821E+01	1018930E+01	2279256E+01	1054992E+02	9328348E+01	3105791E+01	1.000000E+01	3868819E+01
X(10)	3284092E+00	1317798E+00	1106461E+01	6994595E+01	2208900E+00	4111000E+00	2868819E+01	1.000000E+01
X(8)	3439838E+00	1405634E+00	1146394E+01	7143674E+01	2219569E+00	4484078E+00	3284896E+01	8247761E+00
X(27)	9582955E+01	4548074E+02	3728851E+01	1021251E+01	1284270E+00	1019863E+00	9400533E+00	7624951E+01
X(11)	1295992E+00	6488771E+00	9880107E+00	7924525E+00	8822445E+01	1141613E+00	2252292E+01	6094733E+02
X(23)	3183151E+00	8828874E+00	6292879E+00	8238308E+00	3341647E+00	3294442E+00	2558000E+01	1727644E+00
X(13)	1052854E+01	3657701E+01	4444767E+02	2087948E+01	5818818E+01	7635770E+01	7872402E+00	5679992E+02
X(28)	8354107E+01	3103896E+01	4369217E+02	1774361E+01	5389218E+01	7133782E+01	9052939E+00	4479658E+01
X(25)	2317805E+00	3161413E+00	6632666E+00	5048309E+00	1644912E+00	2488598E+00	4487503E+01	4148643E+00
X(20)	1219984E+00	7708620E+00	9900639E+00	8928768E+00	8035901E+01	9928599E+01	1896318E+01	7624777E+01
X(14)	9173184E+00	2189178E+00	8447237E+01	1424490E+00	9657840E+00	9195787E+00	8354918E+01	4151404E+00
X(30)	9823682E+01	7751882E+03	2866280E+01	6082744E+02	1584230E+00	9842038E+01	8825721E+00	5776039E+01
DT	8973136E+01	3786118E+01	5931092E+02	2232605E+01	6557288E+01	9124090E+01	8997869E+00	8336950E+03
X(15)	4868450E+00	3159327E+01	1693866E+00	5618695E+01	5813097E+00	3577079E+00	1920303E+01	4625856E+00
X(43)	2053848E+02	1817560E+00	1955990E+00	2185785E+00	3206213E+01	9830089E+02	3822347E+00	552201E+01
X(21)	2181853E+00	4062775E+00	7625072E+00	6013149E+00	1588282E+00	2247516E+00	4114109E+01	3154028E+00
X(47)	7620306E+02	1242115E+00	1471377E+00	1842355E+00	4474538E+01	1311451E+01	5550746E+00	5282377E+01
X(31)	2117256E+00	7171479E+02	5476717E+01	1002716E+01	2236040E+00	2173335E+00	8282974E+00	1150480E+00
X(42)	3280845E+01	1920899E+00	2638462E+00	2655262E+00	1257994E+01	2524602E+01	4271604E+00	4048974E+01
X(46)	3380595E+01	1387700E+00	2112515E+00	2097699E+00	2021047E+01	2856147E+01	5683933E+00	3278607E+01
X(36)	1023077E+00	2370577E+00	4130256E+00	3328819E+00	7374628E+01	9150708E+01	3202090E+00	1097906E+01
MACH	8121824E+00	3017087E+00	5874965E+00	4169498E+00	7718204E+00	7526158E+00	5748248E+01	7503011E+02

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	X(1)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	3438638E+00	8582855E-01	1290592E+00	3183151E+00	8528584E-01	8254107E-01	2317805E+00	1219984E+00
X(19)	405834E+00	4549074E-02	8488771E+00	8838874E+00	2857701E-01	3102396E-01	3161413E+00	7708820E+00
DC	1146394E-01	3728851E-01	9080107E+00	8282879E+00	4444767E-02	4389217E-02	6632666E+00	990659E+00
X(16)	714374E-01	1021251E-01	7924525E+00	3238306E+00	2087948E-01	1774361E-01	5043309E+00	8928768E+00
X(6)	2219569E+00	1284270E+00	8832445E-01	3341647E+00	5818818E-01	5398218E-01	1644812E+00	8035901E-01
X(18)	4494078E+00	1019883E+00	3141813E+00	2294642E+00	7635770E-01	7132782E-01	2488599E+00	9928599E-01
X(26)	3294898E-01	9400533E+00	3252292E-01	2559000E-01	7872602E+00	9052939E+00	4497502E-01	1896318E-01
X(10)	9247761E+00	7634951E-01	6084733E-02	1727844E+00	5677952E-02	4479659E-01	4148643E+00	7624777E-01
X(8)	1000000E-01	7486227E-01	7439575E-02	1841642E+00	2428671E-02	4355872E-01	3823942E+00	8243044E-01
X(27)	7486227E-01	1000000E-01	4790466E-01	1278360E-01	6604383E-04	7908804E+00	6480964E-01	3122194E-01
X(11)	7439575E-02	4790466E-01	1000000E-01	6801062E+00	7348666E-02	1403004E-01	7310381E+00	9000077E+00
X(23)	1841642E+00	1278360E-01	6801062E+00	1000000E-01	5750569E-01	6861437E-01	3180115E+00	6611804E+00
X(13)	3438638E-02	8604333E+00	7348666E-02	5750569E-01	1000000E-01	8775309E+00	6882857E-02	4444337E-02
X(28)	4355872E-01	7908804E+00	1403004E-01	6861437E-01	8774309E+00	1000000E-01	3158351E-01	6845312E-03
X(25)	3823942E+00	6480964E-01	7310381E+00	3180115E+00	4682857E-02	3158351E-01	1000000E-01	5742277E+00
X(20)	8243044E-01	3122194E-01	9000077E+00	6611804E+00	4444337E-02	6945312E-03	5742277E+00	1000000E-01
X(14)	4440335E+00	327982E+00	7582608E-01	2598872E+00	5084143E-01	3872798E-01	2314894E+00	5145400E-01
X(30)	5427870E-01	8206244E+00	3144236E-01	4050198E-02	8884022E+00	7965167E+00	4659599E-01	2432516E-01
DT	4403576E-02	7672831E+00	1432664E-01	6750658E-01	8841897E+00	5914249E+00	1623633E-01	5237786E-02
X(15)	4728663E+00	3124121E-02	1446265E+00	6922802E-01	9584494E-01	1140996E+00	3845761E-01	1882455E+00
X(43)	4849410E-01	3438638E+00	1557162E+00	1278894E+00	2890517E+00	3553485E+00	6545466E-01	7028188E+00
X(21)	2924891E+00	3883250E-01	6840357E+00	3158895E+00	7882517E-02	2515182E-01	9168494E+00	6707952E+00
X(47)	4336256E-01	5382307E+00	1531267E+00	1207469E+00	4055466E+00	4951666E-01	6139087E-01	1534203E+00
X(31)	1189786E+00	8779670E+00	5742841E-01	2656911E-01	7433449E+00	4805256E+00	8413083E-01	4650222E-01
X(42)	2937773E-01	3370820E+00	2260528E+00	1424794E+00	3561237E+00	4248269E+00	1325700E+00	2654038E+00
X(46)	2055553E-01	4805520E+00	2264688E+00	1365599E+00	4728207E+00	5462688E+00	1324018E+00	2126080E+00
X(36)	4520892E-02	2180839E+00	1781232E+00	1844229E+00	4571587E+00	4014198E+00	2745154E+00	4074261E+00
MACH	1360843E-01	5589407E-02	4980879E-00	8544741E-01	1588832E+00	1763225E+00	3857640E+00	5803978E+00

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	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	9173184E+00	8623668E-01	8973136E-01	4848458E+00	2053649E-02	2191853E+00	7620306E-02	2117256E+00
X(19)	2189178E+00	7751982E-03	3786118E-01	3158327E-01	1817560E+00	4062774E+00	1242115E+00	7171679E-02
DC	8447237E-01	2866200E-01	5931092E-02	1693866E+00	1955890E+00	7625072E+00	1471277E+00	5476717E-01
X(18)	1424490E+00	6062744E-02	2232605E-01	5618695E-01	2185785E+00	6013149E+00	1642265E+00	1002718E-01
X(6)	9657840E+00	1584360E+00	6537288E-01	5813097E+00	3206213E-01	1568282E+00	4474538E-01	2236060E+00
X(16)	9185787E+00	8842036E-01	8124090E-01	2577079E+00	9820089E-02	2247816E+00	1213851E-01	2173235E+00
X(26)	3354918E-01	8825721E+00	8997869E-01	1820303E-01	2822347E+00	4114109E-01	5550746E+00	8282974E+00
X(10)	4151484E+00	3776059E-01	3236950E-02	4625858E+00	5522201E-01	3154028E+00	5298377E-01	1150480E+00
X(8)	4440335E+00	5427870E-01	4403576E-02	4728663E+00	4849410E-01	2824891E+00	4336256E-01	1189786E+00
X(27)	1387982E+00	8206244E+00	7672831E+00	3124121E-02	2439819E+00	5853250E-01	5282207E+00	8776702E+00
X(11)	7582608E-01	3144236E-01	1432664E-01	1446265E+00	1557162E+00	6840357E+00	1531267E+00	5742841E-01
X(23)	3586872E+00	4050198E-02	6750658E-01	6922802E-01	1278894E+00	3158895E+00	1207449E+00	2655911E-01
X(13)	5084143E-01	8884022E+00	8841897E+00	9584494E-01	2890517E+00	7882517E-02	4055466E+00	7433449E+00
X(28)	3872798E-01	7965167E+00	9814249E+00	1140996E+00	3553485E+00	2515182E-01	4951666E+00	6905256E+00
X(25)	2314894E+00	4659599E-01	1623633E-01	3845761E-01	6545466E-01	9168494E+00	6139087E-01	8413083E-01
X(20)	5145400E-01	2432516E-01	5237786E-02	1882455E+00	2020193E+00	6707952E+00	1534203E+00	4650222E-01
X(14)	1000000E-01	1589805E+00	5991329E-01	3814952E+00	4207316E-01	2019892E+00	3248852E-01	2393397E+00
X(30)	1589805E+00	1000000E-01	7895292E+00	1869528E-01	3259066E+00	4525322E-01	4720277E+00	8340406E+00
DT	5991329E-01	7895292E+00	1000000E-01	1000000E-01	3496114E+00	1447263E-01	4788455E+00	8662837E+00
X(15)	3814952E+00	1869528E-01	1000000E-01	1000000E-01	5346118E-01	4038773E-01	4172874E-01	4915358E-01
X(43)	4207316E-01	3259066E+00	3496114E+00	5346118E-01	1000000E-01	9682837E-01	8910286E+00	2900039E+00
X(21)	2019892E+00	4525322E-01	1447263E-01	4038773E-01	8682837E-01	1000000E-01	6443250E-01	7881104E-01
X(47)	5248852E-01	4720277E+00	8340406E+00	4172874E-01	8910286E+00	6443250E-01	1000000E-01	4524984E+00
X(31)	2232397E+00	8240494E+00	6862837E+00	4915358E-01	2900039E+00	7881104E-01	4524984E+00	1000000E-01
X(42)	1982689E-01	3717351E+00	4189177E+00	7262145E-01	9369673E+00	1679553E+00	8546321E+00	2861898E+00
X(46)	2355640E-01	4844712E+00	5424240E+00	6169186E-01	3258973E+00	1299555E+00	9354202E+00	4086038E+00
X(36)	6407210E-01	3589906E+00	4041628E+00	1163737E+00	6570434E+00	3130844E+00	6018719E+00	2387869E+00
MACH	7027022E+00	7210529E-02	1762167E+00	6930534E-00	1420288E+00	4528082E+00	1118815E+00	1032081E+00

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	X(42)	X(46)	X(26)	MACH
X(7)	-3280845E-01	-3398059E-01	-1023077E-00	-8121824E-00
X(19)	-1930899E-00	-1387700E-00	-2370577E-00	-3017087E-00
DC	-2638462E-00	-2112515E-00	-4130256E-00	-5874965E-00
X(18)	-2655262E-00	-2097899E-00	-3328819E-00	-4169498E-00
X(6)	-1257994E-01	-2021047E-01	-7374628E-01	-7716204E-00
X(6)	-2524602E-01	-2856147E-01	-9150708E-01	-7526158E-00
X(26)	-4271604E-00	-5683933E-00	-3202090E-00	-5748248E-01
X(10)	-4048974E-01	-3376807E-01	-1097908E-01	-7503011E-02
X(8)	-2937773E-01	-2055533E-01	-4520082E-02	-1340843E-01
X(27)	-3370820E-00	-4808520E-00	-2180939E-00	-5589607E-02
X(11)	-2260538E-00	-2264688E-00	-3761232E-00	-4880879E-00
X(23)	-1434784E-00	-1365559E-00	-1664229E-00	-6544747E-01
X(13)	-3661237E-00	-4728207E-00	-4571587E-00	-1589832E-00
X(29)	-4248269E-00	-5462888E-00	-4014188E-00	-1763325E-00
X(25)	-1325700E-00	-1224018E-00	-2745154E-00	-3657640E-00
X(20)	-2654038E-00	-2126080E-00	-4074261E-00	-5803978E-00
X(14)	-1983689E-01	-2355440E-01	-6407210E-01	-7027022E-00
X(30)	-3717351E-00	-4944712E-00	-3588906E-00	-7210529E-02
DT	-4199177E-00	-5424240E-00	-4641628E-00	-1782147E-00
X(15)	-7282145E-01	-6186166E-01	-1183737E-00	-6930534E-00
X(43)	-8369673E-00	-8358973E-00	-6570434E-00	-1420289E-00
X(2)	-1679533E-00	-1299555E-00	-3130344E-00	-4528083E-00
X(47)	-8546321E-00	-9354202E-00	-6018719E-00	-1118815E-00
X(31)	-2861898E-00	-4086038E-00	-2387869E-00	-1052065E-00
X(42)	-1000000E+01	-9149255E-00	-7965757E-00	-1981790E-00
X(46)	-9149255E-00	-1000000E+01	-7353229E-00	-1707209E-00
X(26)	-7965757E-00	-7353229E-00	-1000000E+01	-3084184E-00
MACH	-1981790E-00	-1707209E-00	-3084184E-00	-1000000E+01

CORRELATION MATRIX
FOR ERROR.

FRIDAY, JUL 2, 1976

	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-1000000E+01	-1451411E-00	-1497504E-00	-3686948E-01	-8954186E-00	-9880878E-00	-1762546E-00	-3301450E-00
X(19)	-1451411E-00	-1000000E+01	-7418126E-00	-9341838E-00	-1917519E-00	-1673512E-00	-2554238E-01	-1315610E+00
DC	-1497504E-00	-7418126E-00	-1000000E+01	-8954603E-00	-1001100E-00	-1321590E-00	-2512986E-01	-1098947E-01
X(18)	-3686948E-01	-9341838E-00	-8954603E-00	-1000000E+01	-1321902E-00	-4860637E-01	-3269687E-01	-6975954E-01
X(6)	-8954186E-00	-1917519E-00	-1001100E-00	-1321902E-00	-1000000E+01	-8593278E-00	-2428755E-00	-2206161E-00
X(16)	-9880878E-00	-1673512E-00	-1321590E-00	-4860637E-01	-8593278E-00	-1000000E+01	-1734521E-00	-4120200E-00
X(26)	-1762546E-00	-2554238E-01	-2512986E-01	-3269687E-01	-2428755E-00	-1734521E-00	-1000000E+01	-7621536E-01
X(10)	-3301450E-00	-1315610E-00	-1098947E-01	-6975954E-01	-2206161E-00	-4120200E-00	-7621536E-01	-1000000E+01
X(8)	-3444352E-00	-1402172E-00	-1134952E-01	-7116201E-01	-2214680E-00	-4491738E-00	-7139347E-01	-8247744E-00
X(27)	-2218910E-00	-3026693E-01	-4184226E-01	-9895258E-02	-2354984E-00	-2241108E-00	-8897274E-00	-1123154E-00
X(11)	-1312995E-00	-6468027E-00	-9090188E-00	-7823926E-00	-8958870E-01	-1161497E-00	-3185123E-01	-5955834E-02
X(23)	-13143169E-00	-6838644E-00	-6300869E-00	-8241282E-00	-3314764E-00	-3257573E-00	-4288394E-01	-1725821E+00
X(12)	-2467042E-01	-1266134E-01	-3513221E-02	-3922784E-02	-1873731E-01	-1851105E-01	-5175161E-00	-1640618E-01
X(28)	-2787399E-02	-7495948E-02	-8179793E-02	-1044730E-01	-4690019E-02	-1670578E-01	-7004569E-00	-1121886E-00
X(25)	-2346184E-00	-3157320E-00	-6632300E-00	-5046182E-00	-1659917E-00	-2515093E-00	-5132155E-01	-4150944E-00
X(20)	-1234170E-00	-7711339E-00	-9900635E-00	-8929771E-00	-8108574E-01	-1004801E-00	-1983722E-01	-7618015E-01
X(14)	-9174169E-00	-2171230E-00	-8522185E-01	-1412103E-00	-9856587E-00	-9185232E-00	-2382475E-00	-4154214E-00
X(30)	-2039855E-00	-3298718E-01	-2907249E-01	-2877903E-01	-2574390E-00	-2013209E-00	-8104973E-00	-8149856E-01
DT	-3139018E-01	-6739829E-02	-6210086E-02	-1078447E-02	-1983214E-01	-2558009E-01	-8800943E-00	-1837822E-01
X(15)	-4807423E-00	-3447184E-01	-1707910E-00	-5852303E-01	-5792072E-00	-3529249E-00	-7894350E-01	-4648888E-00
X(43)	-3398928E-01	-2034877E-00	-2085173E-00	-2377637E-00	-5408944E-01	-3886498E-01	-2419592E-00	-6064109E-01
X(21)	-2218800E-00	-4059777E-00	-7824883E-00	-6011616E-00	-1582551E-00	-2272229E-00	-4598845E-01	-3156020E-00
X(47)	-5370648E-01	-1556975E-00	-1671785E-00	-1925394E-00	-7942416E-01	-5672324E-01	-3958038E-00	-6244530E-01
X(31)	-3128727E-00	-3223256E-01	-5886864E-01	-4308970E-02	-3055924E-00	-3152086E-00	-7818027E-00	-1414820E-00
X(42)	-3363645E-02	-2242091E-00	-2885545E-00	-2868252E-00	-3828477E-01	-8910735E-02	-2282272E-00	-4702718E-01
X(46)	-1394051E-01	-1799318E-00	-2464493E-00	-2524889E-00	-5805698E-01	-1657009E-01	-3474840E-00	-4309399E-01
X(26)	-7587517E-01	-2841322E-00	-4398444E-00	-3807273E-00	-5633815E-01	-6640398E-01	-1062138E-00	-1444481E-01
MACH	-8109386E-00	-3120856E-00	-5986244E-00	-4265434E-00	-7728856E-00	-7509228E-00	-1192231E-00	-8931995E-02

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	X(1)	X(2)	X(3)	X(4)	X(5)	X(6)	X(7)
X(7)	3444352E-00	2218910E-00	1312995E-00	3143169E-00	2467042E-01	2787388E-02	2346184E-00
X(19)	1402172E-00	3026692E-01	6468027E-00	8838644E-00	1266134E-01	7495848E-02	3157320E-00
DC	1134952E-01	4194226E-01	9090188E-00	6300669E-00	3513221E-02	9178753E-02	6632300E-00
X(18)	7116201E-01	9895258E-02	7923266E-00	8241383E-00	3932784E-02	1044730E-01	5046182E-00
X(8)	2216660E-00	2356984E-00	8958870E-01	3314784E-00	1873731E-01	4690019E-02	1659917E-00
X(16)	4491738E-00	2241104E-00	1161497E-00	3255732E-00	1851103E-01	1670576E-01	2515093E-00
X(26)	7139347E-01	8997274E-00	3185123E-01	4268394E-01	5175161E-00	7004568E-00	5122155E-01
X(10)	9247746E-00	1123154E-00	5955834E-02	1725921E-00	1640818E-01	1121886E-00	4150944E-00
X(3)	1000000E-01	1136338E-00	7240692E-02	1837842E-00	1540189E-01	1163550E-00	3836964E-00
X(27)	1138336E-00	1000000E-01	4891111E-01	4188926E-01	3413549E-00	5473220E-00	7208820E-01
X(11)	7240693E-02	4891111E-01	1000000E-01	6905230E-00	6576221E-02	1881934E-02	7209569E-00
X(23)	1837943E-00	4188926E-01	6905230E-00	1000000E-01	1780785E-01	9666282E-02	3175626E-00
X(13)	1540189E-01	3413549E-00	6576221E-02	1780785E-01	1000000E-01	7807697E-00	8607333E-02
X(28)	1163550E-00	5473220E-00	1981934E-02	9666282E-02	7607697E-00	1000000E-01	3374101E-01
X(25)	3836964E-00	7209569E-01	7209569E-00	3175626E-00	8607333E-02	3374101E-01	1000000E-01
X(20)	8233461E-01	3450905E-01	9000220E-00	8619778E-00	2587540E-02	1533453E-01	5741841E-00
X(14)	4441595E-00	2470908E-00	7899865E-01	3572254E-00	1129405E-01	3190744E-01	2320181E-00
X(30)	7893644E-01	6860981E-00	2681994E-01	3734030E-01	8047198E-00	6540648E-00	4533700E-01
DT	1583638E-01	4782878E-00	1705538E-02	2423473E-01	7909716E-00	9596573E-00	4042242E-03
X(15)	4755205E-00	7353727E-01	1465516E-00	6423131E-01	5272085E-01	8787163E-01	3710214E-01
X(43)	5472528E-01	1950020E-00	1688378E-00	1550054E-00	1082390E-00	1827218E-00	7449387E-01
X(21)	2927361E-00	6413403E-01	6839471E-00	3155842E-00	6056712E-02	2147568E-01	8168241E-00
X(47)	5249921E-01	3746181E-00	1771668E-00	1625506E-00	2816520E-00	7629344E-01	7626872E-00
X(31)	1460439E-00	8304235E-00	5730075E-01	7190159E-01	6106451E-00	5513549E-00	8824031E-01
X(42)	3649023E-01	1196199E-00	2506958E-00	1807593E-00	1532846E-00	2156561E-00	1502839E-00
X(46)	2998580E-01	2368872E-00	2677632E-00	1910728E-00	2120759E-00	2938534E-00	1608986E-00
X(36)	8844285E-02	4788214E-02	4034171E-00	2192105E-00	3408649E-00	2604146E-00	4327064E-00
MACH	1569228E-01	1581235E-00	5072687E-00	9692949E-01	6664463E-01	7802838E-01	3734073E-00

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	X(14)	X(30)	DT	X(15)	X(42)	X(21)	X(47)	X(31)
X(7)	9174169E-00	2039655E-00	-3159010E-01	4907623E-00	3298828E-01	-2218800E-00	5370646E-01	3128727E+00
X(19)	2171230E-00	3299718E-01	-6735829E-02	3497184E-01	2034877E-00	4059777E-00	1556975E+00	3323256E-01
DC	8522185E-01	2907249E-01	6210086E-02	10707910E-00	2085173E-00	7624883E-00	1671785E-00	5866644E-01
X(18)	1412103E-00	2877903E-01	1078447E-02	5852302E-01	2377637E-00	8011618E-00	1935394E-00	4308970E-02
X(8)	8658567E-00	2576390E-00	1982314E-01	5792072E-00	5408944E-01	1582551E-00	7942416E-01	3055924E-00
X(16)	9185232E-00	2013205E-00	2858005E-01	3529248E-00	3486498E-01	-2272328E-00	5672324E-01	3152086E-00
X(26)	2392475E-00	8104973E-00	6800943E-00	7994350E-01	2419592E-00	4599545E-01	3958036E-00	7918027E-00
X(10)	4154214E-00	8148956E-01	1827622E-01	4648888E-00	6064108E-01	3153020E-00	6244530E-01	1414820E-00
X(3)	4441595E-00	7993644E-01	1383838E-01	4755205E-00	5472528E-01	2927361E-00	5349921E-01	1460439E-00
X(27)	2470908E-00	6880881E-00	4782878E-00	7353727E-01	1850020E-00	6413403E-01	3746181E-00	8304235E-00
X(11)	7899865E-01	2681994E-01	1705539E-02	1465516E-00	1689378E-00	6939471E-00	1771668E-00	5730075E-01
X(23)	3572254E-00	5734030E-01	2423472E-01	6423131E-01	1550054E-00	3155842E-00	1635527E-00	7190159E-01
X(13)	1129405E-01	8047198E-00	7909716E-00	5272085E-01	1082390E-00	8056712E-02	1625506E-00	8106451E-00
X(28)	3190744E-01	6540648E-00	9596573E-00	8787163E-01	1827218E-00	2147568E-01	2816520E-00	5513549E-00
X(25)	2230181E-00	4533700E-01	4042242E-03	3710214E-01	7449387E-01	9188241E-00	7629344E-01	8824031E-01
X(20)	5208525E-01	2421652E-01	5922881E-02	1896408E-00	2158036E-00	6707685E-00	1758872E-00	4946827E-01
X(14)	1000000E-01	2556489E-00	1313604E-01	3784762E-00	6470658E-01	2034070E-00	8657798E-01	3211207E-00
X(30)	2556489E-00	1000000E-01	6423445E-00	9248067E-01	1799410E-00	4447823E-01	2890186E-00	9103570E-00
DT	1213604E-01	6423445E-00	1000000E-01	5810776E-01	1592429E-00	1879478E-02	2424034E-00	4955257E-00
X(15)	3784762E-00	9248067E-01	5810776E-01	1000000E-01	2890035E-01	4196888E-01	7163520E-02	1111415E-00
X(43)	6470658E-01	1789410E-00	1592429E-00	2900035E-01	1000000E-01	1072809E-00	8832842E-00	1575178E-00
X(21)	2034070E-00	4447823E-01	1879478E-02	4196888E-01	1072809E-00	1000000E-01	7950787E-01	8246381E-01
X(47)	8657798E-01	2890186E-00	2424034E-00	7163520E-02	8832842E-00	7950787E-01	1000000E-01	2939764E-00
X(31)	3211207E-00	9103570E-00	4955257E-00	1111415E-00	1575178E-00	8246381E-01	2939764E-00	1000000E-01
X(42)	4599465E-01	1869786E-00	2041432E-00	4498888E-01	9317340E-00	1861211E-00	825529E-00	1091636E-00
X(46)	6023039E-01	2788758E-00	2844893E-00	2489666E-01	825558E-00	1577470E-00	8210862E-00	2035267E-00
X(36)	4710544E-01	2095712E-00	2699373E-00	9494358E-01	6195702E-00	3268605E-00	541968E-00	8189542E-01
MACH	7032916E-00	1412707E-00	7760486E-01	6910031E-00	9956997E-01	4614634E-00	4964879E-01	2280832E-00

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	X(42)	X(46)	X(36)	MACH
X(7)	3363645E-02	1366051E-01	7567517E-01	8109386E-00
X(8)	2242091E-00	1799316E-00	2641322E-00	3120856E-00
DC	285545E-00	2464493E-00	439644E-00	5866344E-00
X(18)	2968252E-00	2534888E-00	3607273E-00	4265434E-00
X(6)	3929677E-01	5805698E-01	5633815E-01	7728858E-00
X(16)	8910735E-02	1657009E-01	6640396E-01	7509229E-00
X(26)	2282272E-00	3474840E-00	1082139E-00	1192231E-00
X(10)	4702718E-01	4309398E-01	1444481E-01	8931893E-02
X(9)	3649023E-01	2998580E-01	8844285E-02	1568228E-01
X(27)	1196198E-00	2365872E-00	4788214E-02	1591235E-00
X(17)	2806959E-00	2675432E-00	4034171E-00	5072687E-00
X(23)	1007583E-00	910728E-00	2182185E-00	9892848E-01
X(13)	1532048E-00	2120758E-00	3408648E-00	666463E-01
X(28)	2156561E-00	2928534E-00	2604146E-00	780239E-01
X(25)	1502638E-00	1609865E-00	2963735E-00	3734073E-00
X(20)	2898603E-00	2474895E-00	4337064E-00	5892913E-00
X(14)	4582463E-01	6023039E-01	4710544E-01	7032816E-00
X(30)	1889768E-00	2789758E-00	2097121E-00	1412707E-00
DT	2041433E-00	2844893E-00	2699772E-00	7760488E-01
X(15)	4458889E-01	2489686E-01	9494256E-01	6910031E-00
X(43)	9317940E-00	825558E-00	6195702E-00	898897E-01
X(21)	1881211E-00	1577870E-00	3386865E-00	6614634E-00
X(47)	8285528E-00	9210862E-00	5419688E-00	4864579E-01
X(31)	1091636E-00	2035267E-00	8169542E-01	2280822E-00
X(42)	1000000E-01	9039057E-00	7697376E-00	1515145E-00
X(46)	9039057E-00	1000000E-01	8986710E-00	1089439E-00
X(36)	7697376E-00	8986710E-00	1000000E-01	2751341E-00
MACH	1515145E-00	1089439E-00	2751341E-00	1000000E-01

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	X(7)	X(18)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	4793711E-04	1043505E-06	2704321E-05	9919502E-04	9848778E-03	1703276E-04	1483595E-04	5707330E-04
X(8)	1043505E-06	1035658E-05	1990133E-08	3480512E-08	3130858E-05	4156654E-05	8100922E-05	3355988E-08
DC	2704321E-05	1990133E-08	6953701E-07	6547689E-07	4158464E-04	8582821E-04	4895516E-05	7304553E-06
X(18)	9919502E-04	3480512E-08	6547689E-07	1340366E-08	7762070E-04	4618775E-04	3017469E-04	6408192E-07
X(6)	9848778E-03	3130858E-05	4158464E-04	7762070E-04	2522796E-03	3299966E-03	1157518E-04	8771725E-05
X(16)	1703276E-04	4156654E-05	8582821E-04	4618775E-04	3299966E-03	6197782E-03	6040495E-03	2561102E-06
X(26)	1483595E-04	8100922E-05	4895516E-05	3017469E-04	1157518E-04	6040495E-03	6103293E-06	7565439E-06
X(10)	5707330E-06	3355988E-08	7304553E-08	6408192E-07	8771725E-05	2561102E-06	7565439E-06	6262139E-09
X(9)	2599576E-02	1561472E-04	3299958E-02	2854874E-03	3848251E-01	1218555E-02	2809813E-02	2526106E-05
X(23)	1483326E-05	1034981E-06	2188267E-06	8238828E-05	5876288E-04	3876288E-04	1641889E-07	4271387E-07
X(11)	3840816E-07	2829622E-10	1030328E-10	1247049E-10	6030064E-08	1221899E-07	1092118E-08	6355631E-08
X(22)	3840893E-08	1471759E-11	2715552E-10	4824932E-10	2684268E-07	1342017E-08	3271026E-08	7073711E-10
X(13)	3321631E-07	2093895E-08	6583190E-07	4300015E-08	5198835E-06	1049325E-07	3458704E-08	7982721E-08
X(28)	1044625E-04	5704421E-05	2080827E-04	1173216E-05	1548803E-03	3207467E-03	1277309E-04	2024580E-06
X(25)	1160664E-11	2328929E-13	1284998E-13	1336754E-13	1889633E-10	4480917E-10	2941250E-11	7508838E-13
X(20)	7237811E-04	6721869E-07	2237054E-07	2800970E-07	1083656E-04	2117928E-04	1269400E-05	1634910E-07
X(14)	2610340E-03	1266430E-05	1266430E-05	2884579E-04	8719933E-02	1299950E-03	4154456E-03	5905502E-05
X(30)	5212874E-07	6171939E-07	5913265E-08	1736527E-08	1868773E-07	1916919E-07	5394274E-09	1130817E-10
DT	3844440E-04	2145195E-08	8707752E-04	4550813E-05	5798700E-03	1264658E-04	2813887E-06	1161539E-05
X(15)	2656288E-07	2825042E-08	3507974E-08	1815535E-08	7251334E-08	6932885E-08	1178206E-07	6091232E-09
X(43)	3088045E-05	4030180E-09	1123828E-09	1743591E-09	1109500E-06	5225637E-05	4506353E-08	3010919E-09
X(21)	6461447E-08	1750463E-11	8561461E-10	8373668E-10	1040610E-08	2382518E-08	1368529E-09	3260946E-11
X(47)	1989442E-08	4718507E-11	1448328E-11	2244469E-11	2652919E-08	1220768E-08	1618707E-11	4448246E-11
X(31)	3222816E-09	1603105E-09	2178162E-09	8072539E-09	7810861E-07	1189924E-08	1423124E-10	6331621E-10
X(42)	1926802E-06	1668799E-09	5901661E-08	8245830E-08	1894865E-05	5331218E-05	2830665E-08	8594521E-08
X(46)	3497489E-08	2098391E-11	8281278E-10	1141880E-11	4772072E-07	1057032E-08	6601164E-10	1256195E-11
X(36)	4820306E-08	1641696E-12	7411658E-11	8293394E-11	7970977E-08	1550256E-09	1702339E-11	1869628E-11
MACH	1258247E-03	6870245E-04	3466487E-04	3415635E-04	2742338E-02	4192448E-02	1004833E-03	4201198E-03

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	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	2599576E-02	1483326E-05	384041E-07	3605993E-08	3221631E-07	1044425E-04	1160664E-11	723761E-04
X(19)	1561472E-04	1034881E-06	282962E-10	1471759E-11	2083895E-09	5704421E-05	2326928E-13	6721869E-07
DC	3298858E-02	2198287E-06	1030328E-10	2715552E-10	6583190E-07	2080827E-04	1264998E-13	2237054E-07
X(18)	2854874E-03	8358828E-05	1247049E-10	4431932E-10	4300015E-08	1173216E-05	1336754E-13	2800970E-07
X(6)	3848251E-01	4560356E-04	6030044E-06	8684268E-07	5188835E-06	1548803E-03	1889633E-10	1083656E-04
X(16)	1218555E-02	5676246E-04	1221619E-07	1342017E-08	1068325E-07	3207467E-03	4480917E-10	2117929E-04
X(26)	2809813E-02	1641859E-07	1092119E-08	3271028E-08	3459704E-09	1277309E-06	2541250E-11	1268400E-05
X(10)	2526106E-05	4271387E-07	6555631E-08	7072711E-10	7992721E-08	2024560E-06	7508638E-13	1634810E-07
X(9)	1181536E-01	1828913E-03	3480601E-04	3289201E-06	1491286E-04	8587426E-01	3026865E-09	7709861E-02
X(27)	1826913E-03	4998074E-07	4403330E-08	4676125E-08	8305621E-09	3192509E-08	1049553E-12	5982815E-05
X(11)	3490801E-04	4603330E-08	1847553E-12	4853400E-12	1778828E-10	1889135E-07	2272449E-15	3314744E-09
X(23)	3289201E-06	4676125E-08	4853400E-12	2677092E-13	5282745E-11	1781148E-08	2763295E-15	8289513E-09
X(13)	1481286E-04	8305621E-09	1776828E-10	5282745E-11	3164286E-12	8814064E-08	2718808E-13	2142154E-07
X(28)	8587426E-01	3192509E-08	1089135E-07	1781148E-08	8914064E-08	3261734E-05	4125519E-10	1074784E-03
X(25)	3026865E-09	1049553E-12	2272649E-15	3763295E-15	2718908E-13	4125519E-10	5231035E-18	3558633E-12
X(20)	7709861E-02	5982815E-05	3314744E-09	9268513E-09	2142154E-07	1074784E-03	3558633E-12	7341936E-06
X(14)	2755253E-01	1783914E-04	1852717E-06	3345404E-07	1625730E-08	3975952E-02	9516507E-08	2506204E-03
X(30)	4835364E-05	1425312E-10	1057339E-11	5184520E-10	3909749E-12	1125434E-08	2636583E-14	1630654E-08
DT	2876237E-01	9550417E-06	3428532E-07	6149547E-08	2769169E-09	9968952E-05	6538034E-10	2488725E-04
X(15)	4053781E-05	5485277E-08	4882203E-10	8895756E-10	4234256E-10	1818370E-07	2184487E-13	1266795E-08
X(43)	1152348E-05	1675588E-09	1458330E-11	4582799E-11	3542742E-11	1388318E-08	1031478E-14	3786527E-08
X(21)	1358345E-07	5571785E-09	1270212E-13	2201406E-13	1890384E-11	1934148E-08	2823500E-16	2447323E-10
X(47)	1766865E-07	4491637E-11	2456881E-13	7374543E-13	6515578E-13	3338185E-10	1657420E-16	4907079E-10
X(31)	2808243E-06	4316721E-10	5428748E-11	9592839E-11	9186093E-12	2742701E-09	1338209E-15	8763011E-08
X(42)	2720115E-04	6392228E-08	8241847E-10	1991300E-11	1746955E-11	8508061E-07	8213066E-13	1922880E-08
X(46)	3325584E-06	1597097E-11	1447093E-13	3321480E-13	3953890E-13	1466631E-10	1422565E-16	2708181E-10
X(36)	3357611E-06	3317838E-11	1100168E-14	2075684E-14	1749992E-14	4933482E-10	1351111E-17	2375661E-11
MACH	3323823E-01	2786135E-02	4790498E-06	3128288E-06	2001088E-06	7125788E-02	5919309E-09	1112775E-04

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	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	3610340E-03	5212874E-07	3844440E-04	2636386E-07	3098045E-05	6461647E-08	1969442E-08	3223916E-09
X(19)	1266430E-05	6171939E-07	2145198E-06	2525062E-08	4030160E-09	1740463E-11	4718507E-11	1605105E-09
DC	1266236E-04	5813285E-08	8707792E-04	3507974E-08	1123828E-09	8561461E-10	1448328E-11	3176162E-09
X(18)	2864579E-04	1726527E-08	4550813E-05	1615535E-08	1743591E-08	9373668E-10	2244469E-11	8073539E-08
X(6)	8719933E-02	1988773E-07	5798700E-03	7251324E-06	1109580E-06	1060610E-08	2652919E-08	7810861E-07
X(16)	1298500E-03	1816519E-07	1264656E-04	6993845E-06	5223637E-05	2382518E-08	1220768E-08	1188924E-08
X(26)	4154456E-03	5394274E-08	3813897E-08	1178206E-07	8606953E-09	1348528E-09	1618707E-11	1423124E-10
X(10)	5905502E-05	1170817E-10	1161529E-05	9091233E-08	3010919E-09	3360648E-11	4949266E-11	6331621E-10
X(8)	2755253E-01	4635364E-05	2676237E-01	4053781E-05	1153368E-05	1359345E-07	1766865E-07	2808243E-06
X(27)	1763914E-04	1425312E-10	9550417E-06	5485277E-08	1675588E-09	5571785E-09	4491637E-11	4316721E-10
X(11)	1852717E-06	1057339E-11	3428532E-07	4882203E-10	1458336E-11	1270212E-13	2456881E-13	5428748E-11
X(23)	3345404E-07	5184520E-10	6149547E-08	8895756E-10	4562796E-11	2201406E-13	7374543E-13	9592839E-11
X(13)	1625730E-08	3909749E-12	2769169E-09	4234256E-10	3542742E-11	1890384E-11	8515578E-13	9186093E-12
X(28)	3975952E-02	1125434E-08	9968952E-05	1618370E-07	1398318E-08	1934148E-08	3338185E-10	2742701E-09
X(25)	9516507E-08	2636583E-14	6538034E-10	2194467E-13	1031478E-14	2823500E-16	1657420E-16	1338209E-15
X(20)	2506204E-03	1420654E-08	2498725E-04	1266795E-08	3786527E-08	2447323E-10	4907079E-10	8763011E-08
X(14)	3231531E-02	7070282E-06	1896185E-03	1703141E-06	5338474E-05	4888473E-07	1113759E-08	2974633E-07
X(30)	7670382E-06	6120704E-12	3439017E-09	1148888E-10	555451E-11	1507461E-12	1378488E-14	1607106E-15
DT	1886185E-03	3439017E-06	3098780E-06	4375438E-07	4131902E-08	3430907E-08	8947465E-10	8158288E-09
X(15)	1703141E-06	1148888E-10	4375438E-07	6147820E-10	9182376E-09	1350897E-11	1223348E-12	4488930E-10
X(43)	5324876E-05	555451E-11	4121902E-08	9182376E-09	4747346E-11	8982332E-11	7246903E-13	1389644E-12
X(21)	4808473E-07	1507461E-12	3430907E-08	1350897E-11	8992332E-11	1812975E-14	1027591E-14	7280018E-12
X(47)	1113759E-08	1278488E-14	8947465E-10	1223348E-12	7246903E-13	1027591E-14	1393380E-16	3714722E-14
X(31)	2979633E-07	1607106E-13	8158288E-09	8488930E-10	1389644E-12	7280018E-12	3714722E-14	4836897E-13
X(42)	9584913E-04	2466888E-11	1983101E-08	4837819E-09	1731670E-11	6066037E-11	2766010E-13	5338804E-11
X(46)	1990630E-07	5750829E-13	4488457E-10	7201367E-11	2707485E-13	8225837E-13	5190762E-15	1335877E-14
X(36)	2678515E-08	1910703E-14	1531271E-11	6219487E-12	9742041E-13	9071681E-14	1528866E-16	2576787E-14
MACH	893798E-01	1262246E-05	2195274E-03	1217902E-06	6924339E-05	4314064E-07	8344784E-07	5177181E-06

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	X(42)	X(46)	X(26)	MACH
X(7)	1826802E+06	3497489E+08	4820308E+09	1258247E+03
X(19)	1666798E+09	2093391E+11	1641698E+12	6870245E+04
DC	5901661E+08	8281278E+10	7611658E+11	3466487E+04
X(18)	8245830E+08	1141680E+11	8292384E+11	2415835E+04
X(6)	1694865E+05	4772072E+07	7970877E+08	2742338E+02
X(16)	5331218E+05	1057022E+08	1550256E+09	4192448E+02
X(26)	2830865E+08	6901164E+10	1702239E+11	1006483E+03
X(10)	8594521E+08	1256195E+11	1668435E+11	4201198E+03
X(8)	2720115E+04	3335584E+06	3357811E+06	3323823E+01
X(27)	6382228E+08	1597087E+11	3217839E+11	2786135E+02
X(11)	8241867E+10	1447093E+13	1100148E+14	4790499E+06
X(23)	1991300E+11	3221480E+13	2075684E+14	3128288E+06
X(13)	1746955E+11	3953890E+13	1748892E+14	2001088E+06
X(28)	6508061E+07	1466631E+10	4923482E+10	7125788E+02
X(25)	8732088E+12	1423565E+16	1351111E+17	5819308E+08
X(20)	1828980E+08	2708161E+10	2378661E+11	1112775E+04
X(14)	9548112E+04	1990630E+07	2478515E+08	8827885E+01
X(30)	2466889E+11	5750229E+12	1810703E+14	1262348E+05
DT	1983101E+08	4488457E+10	1531271E+11	2195274E+03
X(15)	4837819E+09	7201367E+11	6218487E+12	1217902E+06
X(43)	1731670E+11	2707496E+13	8742041E+13	6924238E+05
X(21)	6066037E+11	8225837E+13	9071681E+14	4214064E+07
X(47)	2706010E+13	5190782E+15	1528866E+16	9344784E+07
X(31)	5338804E+11	1335877E+14	3573678E+14	5177161E+06
X(42)	7194988E+10	1153694E+13	4598041E+13	3761398E+05
X(46)	1153694E+13	2208933E+15	7438717E+15	5678745E+07
X(34)	4588041E+12	7638717E+15	4630851E+16	4896204E+08
MACH	3761398E+05	5678745E+07	4896204E+08	5006711E+01

SUMS OF SQUARES AND CROSS PRODUCT MATRIX
FOR TREATMENT.

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	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	4399830E+02	2631543E+04	1705825E+03	6197610E+03	6683178E+01	1474655E+02	4164258E+04	1375818E+04
X(19)	2631543E+04	1573892E+06	1020232E+05	3706712E+05	3997124E+03	8819724E+03	2490651E+08	8228596E+05
DC	1705825E+03	1020232E+05	6613376E+03	2402774E+04	2591026E+02	5717143E+02	1614498E+05	5333961E+04
X(18)	6197610E+03	3706712E+05	2402774E+04	8729769E+04	9413725E+02	2077155E+03	5865792E+05	1937937E+05
X(6)	6683178E+01	3997124E+03	2591026E+02	9413725E+02	1015127E+01	2239895E+01	6325363E+03	2089768E+03
X(16)	1474655E+02	8819724E+03	5717143E+02	2077155E+03	2239895E+01	4842368E+01	1295792E+04	4611112E+03
X(26)	4164258E+04	2490651E+08	1614498E+05	5865792E+05	6325363E+03	1295792E+04	3841401E+06	1302158E+06
X(10)	1375818E+04	8228596E+05	5333961E+04	1937937E+05	2089768E+03	4611112E+03	1302158E+06	4302060E+05
X(8)	8594537E+01	5140284E+01	3332048E+00	1210601E+01	1305448E+01	2880495E+01	8134388E+01	2687434E+01
X(27)	1012161E+05	6059589E+08	3927962E+05	1427109E+06	1538919E+04	3395652E+04	9589169E+06	3188044E+06
X(11)	4814217E+05	2879322E+07	1866442E+06	6781163E+06	7312451E+04	1613505E+05	4556466E+07	1505362E+07
X(22)	6080082E+06	4114890E+08	2667384E+07	9691079E+07	1045033E+06	2305888E+06	6511725E+08	2151340E+08
X(13)	2647731E+07	1583575E+09	1026509E+08	2729515E+08	4021714E+06	8873980E+06	2505972E+09	8279216E+08
X(28)	1066748E+04	8344200E+05	4112453E+04	1494138E+05	1611200E+03	3555141E+03	1003956E+06	3316863E+05
X(25)	8617888E+08	5154248E+10	3241100E+09	1213880E+10	1308995E+08	2888320E+08	8156487E+10	2694735E+10
X(20)	5020044E+02	3002425E+04	1846239E+03	7071080E+03	7625087E+01	1682488E+02	4751272E+04	1589722E+04
X(14)	2279506E+01	1363344E+03	8827501E+01	3210844E+02	3462406E+00	7639858E+00	2157462E+03	7127810E+02
X(30)	3380738E+07	1968148E+09	1275798E+08	4635233E+08	4998395E+06	1102904E+07	3114553E+09	1028894E+09
DT	3300777E+04	1974152E+06	1279690E+05	4648378E+05	5013444E+03	1106268E+04	3124055E+08	1022123E+06
X(15)	4318613E+05	2582908E+07	1674299E+06	6083089E+06	6559663E+04	1447401E+05	4087396E+07	1350391E+07
X(43)	4407905E+06	2638312E+08	1708917E+07	6208843E+07	6695291E+05	1477327E+06	4171907E+08	1378312E+08
X(21)	4829737E+06	2994586E+08	1878335E+07	6817109E+07	7351213E+05	1822058E+06	4580619E+08	1512342E+08
X(47)	1053419E+09	6300345E+10	4084038E+09	1483814E+10	1600068E+08	3530578E+08	9970191E+10	3292945E+10
X(31)	7911295E+07	4671831E+09	3028386E+08	1106274E+09	1186478E+07	2617985E+07	7383072E+09	2442518E+08
X(42)	2106098E+06	1261425E+08	8176842E+06	2876813E+07	3203588E+05	7688731E+05	1986178E+08	6594861E+07
X(46)	4750825E+08	2641410E+10	1841868E+09	8891894E+09	7216177E+07	1582382E+08	4486477E+10	1485543E+10
X(36)	1462717E+09	8748325E+10	5870861E+09	2060338E+10	2221763E+08	4802356E+08	1384404E+11	4573798E+10
MACH	2355607E+01	1408859E+03	9132540E+01	3318038E+02	3577998E+00	7894815E+00	2229488E+03	7365771E+02

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	X(8)	X(27)	X(11)	X(23)	X(13)	X(28)	X(25)	X(20)
X(7)	.8594537E-01	.1013161E+05	.4814217E+05	.6880082E+06	.2847731E+07	.1060748E+04	.8617886E+08	.502004E+02
X(19)	.5140284E+01	.6058589E+06	.2879323E+07	.4114890E+08	.1583575E+09	.6344200E+05	.5154249E+10	.3002425E+04
DC	.3332084E+00	.3927962E+05	.1866442E+06	.2667364E+07	.1026509E+08	.4112453E+04	.3341100E+08	.1946238E+03
X(18)	.1210501E+01	.1427109E+06	.6781162E+06	.8691079E+07	.3729515E+08	.1494138E+05	.1213890E+10	.7071084E+03
X(6)	.1305469E+01	.1528919E+04	.7312451E+04	.1045035E+04	.4021714E+06	.1611200E+03	.1308895E+08	.7425087E+01
X(16)	.2880495E+01	.3395652E+04	.1613505E+05	.2305888E+04	.8873980E+06	.3555141E+03	.2883200E+08	.1682488E+02
X(26)	.8134388E+01	.9589169E+06	.4556466E+07	.6511725E+08	.2505972E+09	.1003956E+06	.8156487E+10	.4751272E+04
X(10)	.2687434E+01	.3168064E+06	.1505362E+07	.2151340E+08	.8278216E+08	.3316863E+05	.2694735E+10	.1568722E+04
X(8)	.1678801E+03	.1979043E+02	.9403779E+02	.1343910E+04	.5171904E+04	.2071994E+01	.1683362E+06	.9805828E-01
X(27)	.1979043E+02	.2332882E+07	.1108558E+08	.1584280E+09	.6096866E+09	.2442559E+06	.1984420E+11	.1155953E+05
X(11)	.9403779E+02	.1108558E+08	.5267513E+08	.7527895E+09	.2897036E+10	.1160626E+07	.9429327E+11	.5492720E+05
X(23)	.1343910E+04	.1584260E+09	.7527895E+09	.1075825E+11	.4140204E+11	.1658670E+08	.1347562E+13	.7849742E+06
X(13)	.5171906E+04	.6096866E+09	.2897036E+10	.4140204E+11	.1593316E+12	.6283228E+08	.5185956E+12	.3020895E+07
X(28)	.2071996E+01	.2442559E+06	.1160626E+07	.1658670E+08	.6283228E+08	.2857282E+05	.2077425E+10	.1210247E+04
X(25)	.1683362E+06	.1984420E+11	.9429327E+11	.1347562E+13	.5185956E+12	.2077425E+10	.1687635E+15	.8832466E+08
X(20)	.8832466E+08	.1155953E+05	.5492720E+05	.7849742E+06	.3020895E+07	.1210247E+04	.9832466E+08	.5727555E+02
X(14)	.4452638E+02	.5248963E+03	.2494139E+04	.3564418E+05	.1371731E+06	.5495500E+02	.4464735E+07	.2600773E+01
X(30)	.6427913E+04	.7577502E+09	.3600586E+10	.5145661E+11	.1980256E+12	.7833408E+08	.6445276E+13	.3754526E+07
DT	.6447523E+01	.7600620E+06	.2611571E+07	.5161239E+08	.1988298E+09	.7957811E+05	.6485040E+10	.3765980E+04
X(15)	.8435698E+02	.9844365E+07	.4725244E+08	.6752928E+09	.2598797E+10	.1041144E+07	.8458615E+11	.5029143E+06
X(42)	.8610114E+03	.1014898E+09	.4822943E+09	.6892552E+10	.2652530E+11	.1062671E+08	.8633506E+12	.5029143E+06
X(21)	.8453627E+03	.1114434E+09	.5295436E+09	.7567799E+10	.2812392E+11	.1166778E+08	.8479310E+12	.5521836E+06
X(47)	.2057680E+06	.2425682E+11	.1152406E+12	.1647210E+13	.6339123E+13	.2539813E+10	.2063270E+15	.1201885E+09
X(31)	.1528919E+05	.1788866E+10	.8548778E+10	.1221435E+12	.4700571E+12	.1893188E+09	.1529951E+14	.8912187E+07
X(42)	.4119776E+03	.4856570E+08	.2307686E+09	.3297955E+10	.1281185E+11	.5084677E+07	.4130683E+12	.2406348E+06
X(46)	.2279872E+05	.1092963E+11	.5188163E+11	.7428785E+12	.2858894E+13	.1145345E+10	.9305183E+14	.5420405E+08
X(36)	.8295716E+06	.3366163E+11	.1400443E+12	.2287221E+13	.8802143E+13	.3526361E+10	.2864938E+15	.1648868E+09
NACH	.4601290E-02	.5424200E+03	.2577406E+04	.3683416E+05	.1417526E+06	.5678967E+02	.4613790E+07	.2687600E-01

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	X(14)	X(30)	DT	X(15)	X(42)	X(21)	X(47)	X(31)
X(7)	.2279866E+01	.3290738E+07	.3306777E+04	.4318613E+05	.4407905E+06	.4839737E+04	.1053418E+09	.7811285E+07
X(19)	.1363344E+03	.1988149E+09	.1974163E+04	.2582904E+07	.2634312E+08	.2894586E+08	.6300365E+10	.4671821E+09
DC	.8827501E+01	.1275798E+08	.1279690E+05	.1674298E+06	.1708917E+07	.1876335E+07	.4084038E+09	.3028282E+08
X(18)	.3210844E+02	.4625235E+08	.4648376E+05	.6082069E+06	.6208843E+07	.6817109E+07	.1483814E+10	.1100274E+08
X(6)	.3462406E+00	.4898395E+06	.5013644E+02	.6558663E+04	.6695291E+05	.7351213E+05	.1600068E+08	.1186478E+07
X(16)	.7629858E+00	.1102904E+07	.1106289E+04	.1447401E+05	.1477327E+06	.1622058E+06	.3530576E+08	.2617985E+07
X(26)	.2157482E+03	.3114553E+09	.3124055E+06	.4087396E+07	.4171907E+08	.4580619E+08	.9870191E+10	.7393072E+09
X(10)	.7127810E+02	.1028984E+09	.1032123E+08	.1350391E+07	.1278312E+08	.1512342E+08	.3283945E+10	.2442518E+09
X(8)	.4452639E+02	.6427913E+04	.6447523E+01	.8435698E+02	.8610114E+03	.9453627E+03	.2057680E+06	.1525806E+05
X(27)	.5248963E+03	.7577502E+09	.7600620E+06	.9844365E+07	.1014898E+09	.1114434E+09	.2425682E+11	.1788866E+10
X(11)	.2494139E+04	.3600586E+10	.3611571E+07	.4725244E+08	.4822943E+08	.5295436E+09	.1152406E+12	.8548778E+10
X(23)	.3564418E+05	.5145661E+11	.5161350E+08	.6752928E+09	.6892552E+10	.7567799E+10	.1647210E+13	.1221435E+12
X(13)	.1371731E+06	.1980256E+12	.1988298E+09	.2598797E+10	.2652530E+11	.2812392E+11	.6339123E+13	.4700571E+12
X(28)	.5495500E+02	.7833408E+08	.7957811E+05	.1041144E+07	.1062671E+08	.1166778E+08	.2539613E+10	.1893188E+09
X(25)	.4464735E+07	.6445276E+13	.6465040E+10	.8458615E+11	.8633506E+12	.9479310E+12	.2063270E+15	.1529951E+14
X(20)	.2600773E+01	.3765980E+04	.3765980E+04	.4927266E+05	.5029143E+06	.5521836E+06	.1201885E+09	.8912187E+07
X(14)	.1180961E+00	.1704898E+06	.1710059E+03	.2227377E+04	.2283638E+05	.2507260E+05	.5457528E+07	.4046854E+06
X(30)	.1704898E+06	.2467168E+12	.2468674E+09	.3229920E+10	.3296702E+11	.3619673E+11	.7878992E+13	.5842114E+12
DT	.1710059E+03	.2468674E+09	.2478205E+06	.3238774E+07	.3306760E+08	.3630715E+08	.7802627E+10	.5859937E+09
X(15)	.2227377E+04	.3229920E+10	.3238774E+07	.4328785E+08	.4328440E+09	.4750292E+09	.1033950E+12	.7686921E+10
X(42)	.2283638E+05	.3296702E+11	.3296760E+08	.4328440E+09	.4615896E+10	.4848508E+10	.1055328E+13	.7805443E+11
X(21)	.3507330E+05	.3619673E+11	.3630715E+08	.4750292E+09	.4848508E+10	.5323506E+10	.1158716E+13	.8592084E+11
X(47)	.5457529E+07	.7878992E+13	.7902627E+10	.1033950E+12	.1055328E+13	.1158716E+13	.2522066E+15	.1870156E+14
X(31)	.4046854E+06	.5842114E+12	.5859937E+09	.7686921E+10	.7825443E+11	.8392084E+11	.1870156E+14	.1386753E+13
X(42)	.1092877E+05	.1577409E+11	.1582222E+08	.2078119E+09	.2112921E+10	.2319919E+10	.5049544E+12	.3744226E+11
X(46)	.2461302E+07	.3553182E+13	.3564022E+10	.4663033E+11	.4759446E+12	.5225718E+12	.1137431E+15	.8434254E+13
X(36)	.7578012E+07	.1093976E+14	.1097314E+11	.1425684E+12	.1465368E+13	.1608927E+13	.3501995E+15	.2596791E+14
NACH	.1220388E+00	.1761775E+06	.1767150E+03	.2312072E+04	.2359377E+05	.2591068E+05	.5639728E+07	.4181957E+06

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	X(42)	X(46)	X(36)	MACH
X(7)	-210808E+06	-4750835E+08	-1462717E+09	-2355407E+01
X(19)	-1261425E+08	-2841414E+10	-8748325E+10	-1408859E+03
DC	-8176842E+08	-1841869E+09	-5670861E+09	9132540E+01
X(18)	-2970813E+07	-6891884E+09	-2060339E+10	-3318038E+02
X(6)	-3203568E+05	-7216177E+07	-2221762E+08	-3577988E+00
X(16)	-7068731E+05	-1592242E+08	-4902356E+08	-7894915E+00
X(26)	-1996178E+08	-4496477E+10	-1384404E+11	-2229489E+03
X(10)	-6594961E+07	-1488543E+10	-4577784E+10	-7165771E+02
X(8)	-4118778E+03	-9279972E+05	-2857176E+06	-4601290E+02
X(27)	-4856570E+04	-1093363E+11	-3358163E+11	-5424200E+03
X(11)	-2307686E+09	-5188163E+11	-1600443E+12	-2577406E+04
X(23)	-3297959E+10	-7428785E+12	-2287227E+12	-3682416E+05
X(13)	-1269185E+11	-2858894E+13	-8802143E+13	-1417526E+06
X(28)	-5084677E+07	-1145345E+10	-3526361E+10	-5678967E+02
X(25)	-4130908E+12	-8305183E+14	-2864938E+15	-4613790E+07
X(20)	-2408349E+06	-5420405E+08	-1668868E+09	-2687800E+01
X(14)	-1082677E+05	-2481302E+07	-7578012E+07	-1220388E+00
X(30)	-1577409E+11	-3553182E+13	-1093974E+14	-1761775E+06
DT	-1582222E+08	-3544022E+10	-1097314E+11	-1767150E+03
X(15)	-2070119E+09	-4663033E+11	-1435684E+12	-2312072E+04
X(43)	-2112921E+10	-4759444E+12	-1465268E+13	-2359877E+05
X(21)	-2319919E+10	-5225718E+12	-1608927E+13	-2591068E+05
X(47)	-5049544E+12	-1137431E+15	-3501985E+15	-5638728E+07
X(31)	-3744326E+11	-8434254E+13	-2596791E+14	-4181957E+06
X(42)	-1010993E+10	-2277304E+12	-7011507E+12	-1129158E+05
X(46)	-2277304E+12	-5129725E+14	-1579372E+15	-2564473E+07
X(36)	-7011507E+12	-1579372E+15	-4862670E+15	-7831003E+07
MACH	-1129158E+05	-2543473E+07	-7831003E+07	-1261130E+00

SUMS OF SQUARES AND CROSS PRODUCT MATRIX FOR ERROR.

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	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-4749712E+04	-1017190E+06	-2721379E+05	-9289741E+04	-9781947E+03	-1888530E+04	-5647954E+04	-5693571E+04
X(19)	-1017190E+06	-1034684E+09	-1988113E+08	-3476808E+08	-3090887E+05	-4068456E+05	-1600558E+05	-3347739E+08
DC	-2721379E+05	-1988113E+08	-6552040E+07	-8545288E+07	-4188374E+04	-8640982E+04	-3081020E+05	-7251213E+06
X(18)	-9289741E+04	-3476808E+08	-8545288E+07	-1339493E+08	-7668933E+04	-4411060E+04	-5540045E+05	-4388813E+07
X(6)	-9781947E+03	-3090887E+05	-4188374E+04	-7668933E+04	-2512644E+03	-3277567E+03	-1790055E+04	-8750828E+05
X(16)	-1888530E+04	-4068456E+05	-8640982E+04	-4411060E+04	-3277567E+03	-6148358E+03	-1999752E+04	-2556481E+04
X(26)	-5647954E+04	-1600558E+05	-3081020E+05	-5564045E+05	-1790055E+04	-1999752E+04	-2161882E+04	-8867586E+04
X(10)	-5693571E+04	-3347739E+08	-7251213E+06	-6388813E+07	-8750828E+05	-2556481E+04	-8867586E+04	-6261708E+09
X(8)	-2590981E+02	-1558331E+04	-3266539E+04	-2842768E+03	-3835187E+01	-1215674E+02	-3822352E+02	-2525837E+05
X(27)	-2496488E+05	-5024608E+06	-1805491E+06	-5912258E+05	-6099276E+04	-9071887E+04	-6829423E+04	-4588182E+07
X(11)	-3888588E+07	-8267425E+10	-1030141E+10	-1246370E+10	-9103188E+04	-1237754E+07	-1344727E+07	-4405085E+08
X(23)	-3537193E+08	-1467644E+11	-2712884E+10	-4925241E+10	-8578765E+07	-1318958E+06	-3240889E+06	-7052198E+10
X(13)	-6739001E+04	-5103202E+08	-3671897E+07	-5704488E+07	-1177221E+06	-1818265E+06	-9537315E+08	-1627184E+09
X(28)	-1612348E+02	-6397790E+04	-2031826E+04	-3209222E+04	-6239728E+01	-3476734E+02	-2733531E+05	-2356246E+04
X(25)	-1169282E+11	-2321775E+13	-1264664E+13	-1335540E+13	-1902723E+10	-4509800E+10	-1725601E+11	-7511333E+13
X(20)	-7287811E+04	-6718867E+07	-2236880E+07	-2800263E+07	-1101281E+04	-2134754E+04	-7942732E+04	-1633340E+07
X(14)	-3587545E+03	-1252797E+05	-1275074E+04	-2932471E+04	-8635309E+02	-1292310E+03	-6311918E+03	-5898274E+05
X(30)	-8503812E+07	-2029848E+09	-4637487E+08	-6371783E+08	-2468613E+07	-3019824E+07	-2279721E+09	-1233715E+10
DT	-5436830E+03	-1710460E+05	-4089113E+04	-8056285E+03	-7650547E+02	-1582880E+02	-7896419E+03	-1148277E+04
X(15)	-2593199E+07	-2783333E+08	-3524717E+08	-1678366E+08	-7185738E+04	-6849105E+04	-2809190E+07	-8104736E+09
X(43)	-4717708E+06	-4293791E+09	-1409188E+09	-1805479E+09	-1779110E+04	-1998491E+04	-2334444E+08	-3148750E+09
X(21)	-6510045E+08	-1757546E+11	-6559585E+10	-9366851E+10	-1067961E+08	-2398739E+08	-8104666E+08	-3362159E+11
X(47)	-1250363E+08	-5348544E+11	-1489168E+11	-2392850E+11	-4252987E+08	-4751344E+08	-6218882E+10	-5278641E+11
X(31)	-4005044E+08	-6276936E+09	-2873324E+09	-2929204E+08	-8997239E+07	-1451722E+08	-6838171E+09	-6575873E+10
X(42)	-1222966E+05	-1792941E+09	-5983430E+08	-8542911E+08	-4898434E+05	-1737513E+05	-8344867E+07	-9254017E+08
X(46)	-1253346E+08	-2383532E+11	-8465464E+10	-1208599E+11	-1198825E+08	-5352286E+07	-2104688E+10	-1404750E+11
X(36)	-3357589E+09	-1729179E+12	-7468366E+11	-8498428E+11	-5749215E+08	-1060020E+09	-3179354E+10	-2327013E+11
MACH	-1234891E+03	-7071131E+04	-3475819E+04	-3448818E+04	-2706558E+02	-4113499E+02	-1224656E+03	-4837775E+03

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	X(1)	X(2)	X(3)	X(4)	X(5)	X(6)	X(7)	X(8)
X(1)	2590881E-02	2496488E-05	3888858E-07	3537192E-08	6739001E-06	1612346E-02	1166282E-11	7287811E-04
X(2)	1556331E-04	5024608E-06	2826743E-10	1467644E-11	5103202E-08	6397790E-04	2321775E-13	6718867E-07
OC	3266539E-02	1805491E-06	1030141E-10	2712884E-10	3671897E-07	2031626E-04	1264664E-13	2236860E-07
X(18)	2842768E-03	5912258E-05	1246370E-10	4925241E-10	5704999E-07	3209222E-04	1335540E-13	2800263E-07
X(16)	3835197E-01	6089276E-04	6103188E-06	8579785E-07	1177221E-06	6239728E-01	1902723E-10	1101281E-04
X(16)	1215674E-02	9071897E-04	1237754E-07	1318958E-08	1819265E-06	3476734E-02	4509800E-10	2134754E-04
X(26)	3623262E-02	6829423E-06	6264727E-07	3240699E-08	9537315E-08	2733531E-05	1725601E-11	7942732E-04
X(10)	2525837E-05	4588193E-07	6405095E-08	7052198E-10	1627194E-09	2356246E-06	7511333E-12	1633340E-07
X(8)	1191368E-01	2024818E-03	3398584E-04	3275762E-06	8683191E-04	1065842E-02	3028548E-09	7700050E-02
X(27)	2024818E-03	2465092E-07	3494772E-08	1116647E-09	2208755E-09	7499503E-05	8511109E-11	4826862E-05
X(11)	3398584E-04	3494772E-08	1847026E-12	4845872E-12	1120207E-10	7149098E-05	2271706E-15	3214195E-09
X(23)	3275762E-06	1116647E-09	4845872E-12	2866334E-13	1125241E-11	1324775E-07	3749819E-15	9261663E-09
X(13)	6663191E-04	2208755E-09	1120207E-10	1152541E-11	1570980E-12	2530836E-08	2467048E-13	8787407E-06
X(28)	1065942E-02	7499503E-05	7149098E-05	1324775E-07	2530836E-08	7044514E-04	2047893E-10	1102769E-04
X(25)	3028548E-09	8511109E-11	2271706E-15	3749819E-15	2467048E-13	2047893E-10	5229347E-18	3557650E-12
X(20)	7700050E-02	4826862E-05	3314195E-09	9261663E-09	8787407E-06	1102769E-04	3557650E-12	7341363E-06
X(14)	2750800E-01	2288810E-04	1877658E-06	3309760E-07	2539990E-05	1519548E-02	9561155E-09	2532212E-03
X(30)	5278155E-05	6775621E-09	8972805E-10	5864113E-11	1929492E-12	3320928E-08	1982655E-14	1255201E-08
DT	3771287E-01	1949798E-08	1830384E-06	9881878E-07	7828711E-08	2011341E-05	7298451E-08	1247255E-04
X(15)	4089227E-05	9399838E-07	4929855E-10	8220464E-10	1635459E-10	5772263E-06	2099881E-13	1271722E-08
X(43)	1239448E-05	6405717E-09	1506546E-11	5252051E-11	8802123E-10	3356456E-07	1117813E-14	3834619E-08
X(21)	1360290E-07	4457351E-09	1269883E-13	2193838E-13	1022008E-11	7673697E-07	2822552E-16	2446770E-10
X(47)	1972633E-07	2065955E-11	2572142E-13	9021753E-13	2176455E-13	7885723E-09	1863746E-16	5027267E-10
X(31)	2960823E-06	2518025E-10	4574070E-11	2180728E-12	4495522E-12	8595334E-08	1185214E-15	7871782E-08
X(42)	3132093E-04	1535658E-08	8472636E-10	2321095E-11	4777699E-10	1423384E-07	8546163E-13	1953044E-08
X(46)	4263581E-06	5031334E-10	1499074E-13	4064358E-13	1094998E-13	3212861E-09	1516617E-16	2762365E-10
X(36)	6214788E-06	5032342E-09	1118173E-14	2304406E-14	8687774E-13	1407121E-10	1379760E-17	2392350E-11
MACH	3783952E-01	5702813E-03	4818273E-06	3494630E-08	5835619E-05	1446821E-02	5965447E-09	1115482E-04

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	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(1)	3587545E-02	8502612E-07	5436630E-03	2593199E-07	4717709E-06	6510045E-08	1250363E-09	4005044E-08
X(19)	1252797E-05	2029888E-09	1710460E-05	2783253E-09	4283791E-09	1757589E-11	5048544E-11	6278836E-09
OC	1275074E-04	4637487E-08	4088113E-04	3524717E-09	1140818E-09	9559585E-10	1489166E-11	2873224E-09
X(18)	2932471E-04	6371763E-08	9856285E-03	1676366E-09	1805678E-09	9368951E-10	2392850E-11	2928204E-08
X(16)	8885308E-02	2468813E-07	7850567E-02	7165738E-04	1779110E-06	1067961E-09	4252897E-08	8987339E-07
X(16)	1292310E-05	3019824E-07	1583950E-03	6849105E-06	1999691E-06	2388739E-08	4751344E-08	1451722E-08
X(26)	6211918E-03	2778721E-09	7886419E-05	2909190E-07	2334446E-08	9104666E-08	6216882E-10	6832171E-09
X(10)	5988374E-05	1232715E-10	1148277E-06	9104736E-09	3148750E-09	3362159E-11	5278641E-11	6575873E-10
X(8)	2750800E-01	5278155E-05	3771287E-01	4062227E-05	1239449E-05	1260290E-07	1972633E-07	2960823E-06
X(27)	2288810E-04	6775621E-09	1949798E-04	9395838E-07	6605717E-08	4457351E-09	2065955E-11	2518025E-10
X(11)	1877659E-06	8972805E-10	1830384E-06	4929855E-10	1506546E-11	1269883E-13	2572142E-13	4574070E-11
X(23)	3309760E-07	5864113E-11	9881878E-07	8220464E-10	5252051E-11	2193838E-13	9021753E-13	2180728E-12
X(13)	2539990E-05	1929492E-12	7828711E-08	1635459E-10	8902123E-10	1022008E-11	2176455E-13	4495522E-12
X(28)	1519548E-02	3320928E-08	2011341E-05	5772263E-06	3356459E-07	7873697E-07	7885723E-09	8595334E-08
X(25)	9561155E-09	1982655E-14	7298451E-08	2099881E-13	1117813E-14	2822552E-16	1863746E-16	1185214E-15
X(20)	2532212E-03	1255201E-08	1267255E-04	1271722E-08	3836819E-08	2446770E-10	5027267E-10	7871782E-08
X(14)	3219542E-02	8775140E-06	1861254E-02	1680767E-04	7618513E-05	4912547E-07	1659512E-08	3384319E-07
X(30)	8775140E-06	3659539E-12	8703430E-06	4378608E-10	2258749E-11	1145494E-12	5906291E-13	1022895E-13
DT	1861254E-02	9703430E-08	6235743E-05	1135665E-07	8251424E-07	1998083E-07	2044837E-10	2298351E-09
X(15)	1680767E-06	4378608E-10	1135665E-07	612532E-10	4855935E-09	1398400E-11	1892875E-11	1615675E-11
X(43)	7618513E-05	2258749E-11	8251424E-07	4855935E-09	4305757E-11	9477183E-11	8191575E-13	6071001E-11
X(21)	4912547E-07	1145494E-12	1998083E-07	1398400E-11	9477183E-11	1812443E-14	1143453E-14	6520810E-12
X(47)	1659512E-08	5906291E-13	2044837E-10	1893975E-11	6191575E-13	1143453E-14	1141174E-16	1844587E-14
X(31)	3394319E-07	1022895E-13	2298351E-09	1615675E-11	6071001E-11	6520810E-12	1844587E-14	3449903E-13
X(42)	2049168E-05	8894798E-10	4008798E-07	2767700E-09	1520378E-11	8298039E-11	2201056E-13	1584479E-11
X(46)	4451932E-07	2197656E-13	9256147E-09	2538335E-11	2231552E-13	8748408E-13	4053330E-15	4924512E-13
X(36)	1720714E-08	8167273E-13	4339578E-10	4782804E-12	8278673E-13	9232574E-14	1178666E-16	768887E-12
MACH	5815947E-01	1887999E-06	4281239E-02	1194781E-06	4584462E-05	4239974E-07	3705056E-07	8259138E-06

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	X(42)	X(46)	X(36)	MACH
X(7)	-1822888E+05	-1253346E+08	-3257589E+09	-1234691E+03
X(19)	-1792841E+08	-2383332E+11	-1729178E+12	-7011131E+04
DC	-5883430E+08	-8465464E+10	-7468366E+11	-2475619E+04
X(18)	-8542811E+06	-1208599E+11	-8499428E+11	-3448816E+04
X(6)	-4896434E+05	-1198825E+08	-5745215E+08	-2706558E+02
X(16)	-1737513E+05	-5352296E+07	-1080020E+09	-4113499E+02
X(24)	-8744867E+07	-2104688E+10	-3179354E+10	-1224656E+03
X(10)	-9254017E+08	-1404750E+11	-2327013E+11	-4937775E+03
X(8)	-3132093E+04	-4263581E+06	-6214788E+06	-3783952E+01
X(27)	-1535658E+08	-5031334E+10	-5032342E+09	-5702813E+03
X(11)	-8472636E+10	-1499074E+13	-1118173E+14	-4816273E+06
X(23)	-2321085E+11	-4064358E+13	-2304406E+14	-3488630E+05
X(13)	-4777698E+10	-1094996E+13	-8697774E+13	-5835619E+05
X(28)	-1423384E+07	-3212661E+09	-1407121E+10	-1446821E+02
X(25)	-8546163E+13	-1516617E+16	-1376760E+17	-5965447E+09
X(20)	-1953044E+08	-2762385E+10	-2392350E+11	-1115462E+04
X(14)	-2049168E+05	-4451932E+07	-1720714E+08	-8815847E+01
X(30)	-8894766E+10	-2197656E+13	-8167273E+13	-1887999E+06
DT	-4008798E+07	-9254347E+09	-4339578E+10	-4281239E+02
X(15)	-2767700E+08	-2538335E+11	-4783804E+12	-1194787E+06
X(43)	-1520378E+11	-2231552E+13	-8278873E+13	-4584462E+05
X(21)	-8288029E+11	-9748408E+13	-9232574E+14	-4339874E+07
X(47)	-2201056E+13	-4053302E+15	-1178666E+16	-3705056E+07
X(31)	-1584478E+11	-4924612E+13	-9768867E+13	-9359138E+06
X(42)	-6184006E+10	-9259635E+12	-3896890E+13	-2632240E+05
X(46)	-9259635E+12	-1696940E+15	-5859345E+15	-3135273E+07
X(36)	-3896890E+13	-5859345E+15	-4144584E+16	-3913104E+08
MACH	-2632240E+05	-3135273E+07	-3913104E+08	-4880598E+01

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	X(7)	X(18)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-1805690E+00	-1279419E+05	-5925235E+03	-2750268E+04	-1942312E+00	-4842312E+00	-1440138E+04	-5546244E+04
X(19)	-1279419E+05	-2585973E+06	-9854195E+07	-5194270E+06	-4290104E+04	-1736215E+06	-4571174E+07	-4025170E+08
DC	-5925235E+03	-9854195E+07	-1012270E+03	-3284381E+05	-9627741E+04	-1688369E+02	-3208796E+05	-7436685E+06
X(8)	-2750268E+04	-5194270E+06	-3284381E+05	-2605884E+05	-2644107E+03	-8310428E+05	-1505982E+05	-1002404E+07
X(6)	-1942312E+00	-4290104E+04	-9627741E+04	-2644107E+03	-1803879E+01	-6585945E+00	-1451508E+03	-4658692E+04
X(16)	-4842312E+00	-1736215E+06	-1688369E+02	-8310428E+05	-6585945E+00	-1328362E+01	-1432170E+03	-1399136E+03
X(26)	-1440138E+04	-4571174E+07	-3208796E+05	-1505982E+05	-1451508E+03	-1432170E+03	-2490385E+03	-2602809E+07
X(10)	-5546244E+04	-4025170E+08	-7436685E+06	-1002404E+07	-4882892E+04	-1399136E+03	-2602809E+07	-3894253E+07
X(8)	-2750268E+04	-5194270E+06	-3284381E+05	-2605884E+05	-2644107E+03	-8310428E+05	-1505982E+05	-1002404E+07
X(27)	-1413863E+04	-2885961E+07	-7849810E+08	-3357275E+06	-3273489E+05	-1505982E+04	-1350842E+04	-6716470E+08
X(11)	-9519618E+07	-3854478E+08	-3207169E+07	-8200140E+09	-1735258E+06	-4099582E+07	-6189556E+08	-2426782E+09
X(23)	-2432146E+07	-8087383E+08	-5003528E+08	-4026358E+09	-6895661E+07	-2291904E+07	-1509494E+08	-1510686E+10
X(13)	-8345605E+07	-8068999E+10	-4102250E+09	-4016236E+09	-5416500E+06	-4999505E+08	-1174147E+06	-1022385E+11
X(28)	-2082866E+02	-7468773E+06	-8283262E+05	-1945898E+05	-5805108E+02	-1755696E+02	-7778216E+04	-4218987E+06
X(25)	-1362072E+10	-7044569E+12	-1134631E+10	-2238820E+12	-2312311E+09	-7497598E+11	-1349461E+11	-1528189E+12
X(20)	-1649435E+02	-1316328E+05	-2543258E+03	-4884622E+05	-5086029E+03	-4550925E+02	-2862484E+05	-2023300E+05
X(14)	-5678594E+00	-8307761E+04	-1700244E+03	-3643210E+03	-5389496E+01	-2001114E+01	-1107184E+02	-1380910E+03
X(30)	-1558744E+06	-3328702E+10	-1374925E+08	-2986680E+07	-8881411E+06	-5131748E+07	-2013776E+06	-2573941E+11
DT	-7822594E+04	-9088283E+07	-2199488E+05	-6153305E+06	-1809807E+02	-4940535E+03	-1688583E+03	-1286001E+06
X(15)	-1721661E+04	-3432308E+08	-8161982E+07	-5464424E+08	-3636145E+04	-4108211E+04	-5593914E+08	-9322185E+08
X(43)	-1774838E+06	-3730946E+08	-1122072E+07	-5312631E+08	-9649162E+07	-5276380E+07	-4715036E+07	-7964529E+10
X(21)	-7114305E+07	-1016373E+09	-1191559E+07	-8557122E+10	-1261640E+07	-1846019E+06	-6211459E+11	-7768946E+10
X(47)	-7261903E+09	-1642856E+10	-7742801E+10	-3209327E+11	-1480189E+09	-3290999E+08	-5916018E+09	-5343479E+12
X(31)	-4249646E+07	-5437438E+11	-4033966E+08	-1182452E+09	-2004168E+06	-1469162E+07	-4272260E+07	-4480989E+12
X(42)	-6186074E+06	-1119125E+07	-2988046E+07	-2404051E+07	-8842105E+06	-1421895E+05	-4950622E+07	-2090179E+09
X(46)	-1193123E+08	-4147775E+10	-2435943E+09	-8252884E+11	-2354807E+08	-6036781E+08	-1573735E+08	-1220282E+11
X(36)	-1732726E+06	-1439430E+11	-1224284E+10	-1083722E+10	-5927904E+09	-3139213E+09	-9924644E+10	-2632877E+13

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	X(1)	X(2)	X(3)	X(4)	X(5)	X(6)	X(7)
X(1)	9284808E-00	1412863E-04	9519618E-07	2432146E-07	8345605E-07	2083866E-03	1362072E-10
X(2)	1292375E-03	2695961E-07	3654478E-08	8097383E-09	8068998E-10	1746873E-08	7044569E-12
DC	1888038E-01	7949810E-06	3307169E-07	5003529E-08	4102250E-09	8283262E-05	1134631E-10
X(18)	5260747E-03	3357775E-06	8200140E-09	4026358E-09	6016216E-09	1945898E-05	2238820E-12
X(5)	3740625E-01	3273489E-05	3735258E-06	6695661E-07	5416500E-06	5605108E-02	2312311E-09
X(16)	2128613E-01	1509588E-04	4098592E-07	2291904E-07	4999505E-08	1755698E-02	7487598E-11
X(26)	1443228E-02	5350643E-04	6188556E-08	1509494E-08	1174147E-04	7778216E-04	1349461E-11
X(10)	8960383E-03	6715670E-08	2426763E-09	1510686E-10	1022385E-11	4218987E-06	1528188E-12
X(8)	2854453E-02	4087678E-03	1026563E-05	2587377E-06	250281E-07	1393630E-01	5723193E-09
X(27)	4087678E-03	1435453E-04	1610525E-08	8062864E-09	1764175E-07	2665892E-04	8708255E-12
X(11)	1026563E-05	1610525E-08	2072483E-09	2674574E-10	3778356E-12	2513857E-08	7121687E-13
X(23)	2587377E-06	6062864E-09	2674574E-10	6453521E-11	8682083E-13	1438484E-08	5439447E-14
X(13)	2502341E-07	1764175E-07	3778356E-12	9682083E-13	1260855E-09	3832140E-08	3205898E-15
X(28)	3293630E-01	2665892E-04	2513857E-08	1438484E-08	3832140E-08	2614244E-02	8951003E-12
X(25)	5723193E-09	6709255E-12	7121687E-13	5439447E-14	3205898E-15	8951003E-12	4424045E-16
X(20)	4872420E-01	7752917E-06	5188294E-08	2604800E-08	1113300E-08	1204390E-04	1960084E-11
X(14)	1151439E-02	1804852E-03	8083692E-06	1129984E-06	4474167E-07	1714163E-01	6367017E-09
X(30)	1825134E-06	4241289E-07	7078281E-12	3798337E-13	1352808E-09	1567088E-08	1037246E-14
DT	4753320E-07	3018900E-04	6227083E-09	3597066E-09	1116777E-06	848684E-03	2182253E-12
X(15)	2238427E-03	5535146E-08	2181802E-10	3098412E-11	1286904E-11	3393245E-06	1418820E-13
X(43)	1577757E-05	2160898E-07	6211352E-10	1493763E-10	1422788E-10	5151298E-07	1344958E-13
X(21)	2204124E-05	5415094E-10	1065452E-10	8346621E-12	2380517E-14	2172726E-08	6630211E-14
X(47)	6853825E-08	2262378E-09	4275154E-12	1004151E-12	2306488E-14	1722405E-10	7964754E-16
X(31)	8654252E-07	1125484E-07	2339062E-12	5345525E-13	2055479E-10	3582350E-08	3369256E-15
X(42)	2716825E-05	3260007E-07	2228480E-09	3612872E-10	7454160E-10	3302090E-07	3081990E-13
X(46)	2036810E-07	8643495E-09	1560272E-11	2549386E-12	6055509E-14	183654E-09	1482772E-15
X(38)	1150451E-09	2331979E-10	7408234E-14	1543652E-14	6791791E-13	3872952E-11	4772593E-17

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	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(1)	5678594E-00	1558744E-06	7822584E-04	1721661E-04	1776838E-06	7114305E-07	7261903E-09	4269846E-07
X(19)	6207761E-04	3228702E-10	9082263E-07	3422308E-09	3730946E-08	1016373E-09	1642856E-10	5427438E-11
DC	1700244E-03	1374935E-08	2199488E-05	8161982E-07	1122072E-07	1191559E-07	7742801E-10	4023986E-09
X(18)	3842210E-02	2895880E-09	8153205E-06	5464424E-08	5312621E-08	8957122E-10	3209327E-11	1182452E-08
X(6)	5394946E-01	888141E-06	180987E-02	3436145E-04	988163E-07	9281840E-07	1480189E-09	2004188E-06
X(16)	2001114E-01	5131746E-07	4840535E-03	4108211E-04	5276380E-06	1846019E-06	3290999E-08	1468182E-07
X(26)	1107184E-02	2013776E-06	1648583E-03	5593914E-08	4715036E-07	6211458E-11	5816018E-08	4272260E-07
X(10)	1280910E-02	2573941E-11	1284601E-06	8222185E-08	7864528E-10	7768946E-10	5343479E-12	4480889E-12
X(8)	1151439E-02	1625134E-06	4753320E-02	2238427E-03	1577757E-05	2204124E-05	6853825E-08	8654252E-07
X(27)	1804652E-03	4241289E-07	3016900E-04	5553514E-09	2160898E-07	5415094E-10	2262378E-09	1125484E-07
X(11)	8083692E-06	7078281E-12	6227083E-09	2181802E-10	6211352E-10	1065452E-10	4275154E-12	2339062E-12
X(23)	1129984E-06	3798337E-13	3597066E-09	3098412E-11	1493763E-10	8346621E-12	1004151E-12	5345525E-13
X(13)	4474167E-07	1352808E-09	1114777E-06	1286904E-11	1422788E-10	2380517E-14	2306488E-14	2055479E-10
X(28)	1714163E-01	1567088E-08	848684E-03	3393245E-06	5151298E-07	2172726E-08	1722405E-10	3582350E-08
X(25)	6367017E-09	1037246E-14	2182253E-12	1418820E-13	1344958E-13	8430211E-14	7964754E-16	3369256E-15
X(20)	1952090E-02	2932178E-08	3226307E-05	1846812E-06	1055830E-07	2702271E-07	3451874E-10	7364643E-09
X(14)	1447749E-02	2242874E-06	5032009E-02	1060038E-03	3164447E-04	2558392E-06	5877892E-09	7405345E-07
X(30)	2243974E-06	2238888E-09	1235738E-06	9510432E-11	6838102E-11	2058821E-14	6790535E-13	4773507E-10
DT	5032009E-02	1235738E-06	4017511E-03	1039312E-04	2348072E-07	6355352E-09	1491133E-10	1776675E-07
X(15)	1060038E-03	9510432E-11	1039312E-04	4087075E-08	2042086E-10	1556811E-10	5601059E-13	2249716E-11
X(43)	3164447E-04	5839102E-11	2348072E-07	2042086E-10	1232599E-08	1705946E-11	6780015E-11	2582517E-11
X(21)	2559392E-06	2058821E-14	6355352E-09	1556811E-10	1705946E-11	2268298E-11	1073850E-13	1116615E-13
X(47)	5877892E-09	6790535E-13	1491133E-10	5601059E-13	6780015E-11	1073850E-13	4791219E-13	3228244E-13
X(31)	7405345E-07	4773507E-10	1776675E-07	2249716E-11	2582517E-11	1116615E-13	3228244E-13	1279718E-10
X(42)	6700192E-06	597926E-11	2215442E-07	8980075E-10	3434503E-08	3664645E-11	1798526E-10	4103278E-11
X(46)	682488E-09	8851525E-12	1988982E-10	2273242E-12	1805829E-10	2320057E-13	1244938E-12	5377682E-13
X(38)	1907301E-09	2773530E-13	1708882E-11	1960985E-13	1885821E-12	2866227E-15	2718605E-15	1275584E-13

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	X(42)	X(46)	X(36)
X(7)	-6136074E-06	-1193123E-08	-1732726E-09
X(19)	-1119125E-07	-4147775E-10	-1439430E-11
DC	-2998046E-07	-2435943E-09	-1224284E-10
X(18)	-2404051E-07	-8352884E-11	-1063728E-10
X(6)	-8842105E-06	-2254807E-08	-5927904E-09
X(16)	-1421855E-05	-6036781E-08	-3139213E-09
X(28)	-4950622E-07	-1373735E-08	-9924844E-10
X(10)	-2090179E-09	-1220242E-11	-2832877E-13
X(8)	-2716825E-05	-2036810E-07	-1150451E-09
X(27)	-3260007E-07	-5643495E-09	-2331979E-10
X(11)	-2228490E-09	-1560272E-11	-7408234E-14
X(23)	-3613872E-10	-2549386E-12	-1543652E-14
X(13)	-7454160E-10	-6085509E-14	-6791791E-13
X(28)	-3202090E-07	-1835654E-09	-3872952E-11
X(25)	-3081990E-13	-1482772E-15	-4772593E-17
X(20)	-2560214E-07	-2507077E-10	-5645417E-11
X(14)	-6700193E-06	-6682488E-08	-1307301E-09
X(30)	-8387926E-11	-9851625E-12	-2773520E-13
DT	-2215442E-07	-1985992E-10	-1704882E-11
X(15)	-8248073E-10	-2273242E-12	-1860985E-13
X(43)	-3434503E-08	-1805828E-10	-1885821E-12
X(21)	-3466645E-11	-2320057E-13	-2866227E-15
X(47)	-1789528E-10	-1244938E-12	-2718605E-15
X(31)	-4103278E-11	-5377682E-13	-1275584E-13
X(42)	-1102816E-07	-5377054E-10	-1185524E-11
X(46)	-5377054E-10	-3655458E-12	-6275740E-15
X(36)	-1185524E-11	-6275740E-15	-1172471E-14

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	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	-4959632E-12	-9370779E-10	-6751082E-10	-4308199E-11	-3702278E-12	-6963063E-12	-2264707E-11	-5631567E-09
X(19)	-3233487E-09	-8661509E-07	-1566525E-08	-4402842E-09	-5107531E-09	-1141160E-10	-2198030E-08	-4033542E-06
DC	-6810264E-10	-1210449E-09	-1186030E-09	-5600272E-09	-5681285E-10	-7824260E-10	-2540004E-09	-7816538E-07
X(18)	-1254264E-11	-2390401E-09	-1688691E-09	-1097145E-10	-8497492E-10	-1801009E-11	-9199537E-09	-1499847E-08
X(6)	-5878872E-12	-1169100E-11	-9555249E-10	-5378949E-11	-4645040E-12	-8966981E-12	-2892434E-11	-6901851E-09
X(16)	-2529721E-12	-4843509E-11	-3907859E-11	-2248019E-12	-1801771E-12	-3777301E-12	-1293665E-12	-3002356E-10
X(26)	-7710460E-11	-1474598E-10	-1108272E-10	-4788124E-10	-5328809E-11	-1112331E-12	-3562238E-10	-9138234E-08
X(10)	-3594548E-09	-1082682E-08	-8445522E-07	-5044428E-08	-4201482E-09	-8307636E-09	-2457247E-08	-7191077E-06
X(8)	-1336406E-12	-2542144E-11	-2890783E-11	-1278382E-12	-1068475E-12	-2118980E-12	-5280607E-11	-1704932E-10
X(27)	-1589750E-11	-3171459E-09	-2183715E-09	-1423343E-10	-1103599E-11	-2344621E-11	-8267661E-09	-1967492E-08
X(11)	-3672904E-08	-7140526E-06	-6315862E-06	-2281986E-07	-3057918E-08	-4946337E-08	-1580286E-07	-4639049E-05
X(23)	-6028660E-08	-1163715E-07	-9316048E-06	-5420859E-07	-4531525E-08	-9098721E-08	-2961091E-07	-7216719E-05
X(13)	-1036238E-08	-2173259E-06	-2375033E-06	-1046640E-07	-7888641E-07	-1802844E-08	-6409505E-06	-1849801E-05
X(28)	-8738661E-10	-3481228E-08	-1439991E-09	-4691823E-09	-1070780E-11	-7058914E-10	-2341034E-09	-5464351E-07
X(25)	-4759805E-05	-8770111E-03	-583231E-03	-2834082E-04	-3788460E-05	-5581141E-05	-1974241E-04	-5403432E-02
X(20)	-4267939E-11	-6349143E-09	-5894187E-09	-2851892E-10	-3052838E-11	-6216007E-11	-2283720E-10	-5342576E-08
X(14)	-3340232E-13	-6288123E-11	-5120345E-11	-3006918E-12	-2468013E-13	-4835661E-13	-1584406E-12	-3827845E-10
X(30)	-1626785E-08	-3178984E-06	-3074939E-06	-1575379E-07	-1175718E-08	-2618405E-08	-7666281E-06	-1966577E-05
DT	-1947044E-11	-3688681E-09	-3793311E-09	-1830013E-10	-1522503E-11	-2918127E-11	-6537569E-09	-2228063E-08
X(15)	-2389900E-09	-4421717E-07	-2470824E-07	-2164803E-08	-1620521E-09	-3664234E-09	-1252011E-08	-2880767E-06
X(43)	-8272217E-09	-1600561E-08	-1196221E-08	-7361415E-08	-6066439E-09	-1208814E-10	-3825663E-08	-9788237E-06
X(21)	-6965436E-07	-1242574E-06	-8442481E-05	-5502748E-08	-5446783E-07	-8655013E-07	-2587335E-06	-7671997E-04
X(47)	-4138924E-06	-8037883E-04	-7445426E-04	-3494618E-05	-3788678E-06	-2907561E-06	-1865659E-05	-4199254E-03
X(31)	-1844810E-08	-3142828E-05	-2249955E-05	-1445245E-07	-1184542E-08	-2331717E-08	-7886120E-06	-1553393E-05
X(42)	-8671325E-09	-1573780E-09	-1302039E-08	-7338182E-09	-5525694E-09	-1259853E-10	-4115620E-08	-9998532E-06
X(46)	-8211904E-06	-1531389E-05	-1416787E-05	-7395897E-05	-5545546E-06	-1577289E-07	-2842601E-05	-7893167E-03
X(36)	-4738797E-06	-9222122E-04	-7962371E-04	-4514209E-05	-3240090E-06	-8018888E-06	-2425874E-05	-6092046E-03

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	X(8)	X(27)	X(11)	X(23)	X(12)	X(28)	X(25)	X(20)
X(7)	-2002429E-13	-2985424E-11	-1604164E-08	-3095175E-08	-2433457E-08	-1699160E-12	-9182862E-05	-8545120E-11
X(19)	-1821607E-10	-2213257E-08	-1891604E-05	-3817185E-05	-5374760E-05	-1601820E-09	-9341883E-02	-4916325E-08
DC	-2628865E-11	-4004610E-09	-1071312E-06	-1822814E-06	-2877076E-06	-2088512E-10	-1285204E-04	-8340414E-08
X(11)	-4984535E-11	-7873718E-09	-2100113E-06	-8122200E-05	-5644322E-06	-4244826E-10	-2435694E-04	-1870161E-10
X(6)	-2392346E-13	-3740983E-11	-1254688E-08	-3718634E-08	-2881304E-08	-2089535E-12	-1139113E-06	-7236160E-11
X(16)	-1043065E-14	-1570782E-12	-632655E-08	-1643470E-08	-1223864E-09	-8786968E-12	-4861678E-06	-3258642E-12
X(26)	-3195328E-12	-4751206E-10	-2301594E-07	-4673812E-07	-3680420E-07	-2673850E-11	-1464757E-05	-9852710E-10
X(10)	-2240251E-10	-3536819E-08	-7232564E-04	-3589590E-05	-2373448E-05	-1931437E-09	-1110278E-03	-7488848E-08
X(8)	-5027894E-13	-8193075E-11	-2244861E-08	-8164712E-08	-8654627E-08	-4680822E-12	-2528315E-06	-1784540E-12
X(27)	-7024868E-11	-9823960E-09	-6522230E-06	-1030385E-07	-7992607E-06	-5736637E-10	-3044832E-04	-2018099E-10
X(11)	-1375020E-09	-2356519E-07	-6511283E-03	-2358988E-04	-1929409E-04	-1288986E-08	-7054727E-01	-5145190E-07
X(23)	-2477215E-09	-3792075E-07	-1585652E-04	-3818430E-04	-2819520E-04	-2118451E-08	-1152128E-02	-7821382E-07
X(13)	-4787717E-08	-8475109E-06	-3422586E-03	-7184687E-03	-9053065E-02	-3803917E-07	-2401332E-01	-1381031E-07
X(28)	-2106465E-11	-4681189E-08	-9484811E-06	-3510108E-06	-8482827E-06	-2152937E-09	-3262159E-03	-1627418E-10
X(25)	-1958968E-06	-2746507E-04	-1413019E-01	-2857405E-01	-1955822E-01	-1545706E-05	-8885133E-02	-5984887E-04
X(20)	-1808702E-12	-2794835E-10	-9852885E-06	-2863886E-07	-1646151E-07	-1574160E-11	-8260205E-04	-5439106E-10
X(14)	-1363670E-14	-2096944E-12	-7084237E-08	-2124762E-08	-1811290E-09	-1179074E-13	-6384312E-06	-4295406E-12
X(30)	-6592800E-08	-1037752E-07	-3873330E-03	-1079447E-04	-9394905E-03	-6040153E-07	-3140288E-01	-2218608E-07
DT	-8139215E-11	-1286988E-10	-2633659E-06	-1263487E-07	-9080583E-06	-7277231E-10	-3830618E-04	-2385052E-10
X(15)	-9503545E-09	-1552262E-08	-5390749E-04	-1625809E-05	-1117924E-05	-8139804E-08	-6682228E-02	-3146478E-08
X(43)	-3473815E-10	-5137195E-08	-2320152E-05	-5307335E-05	-4022848E-05	-2842974E-09	-1568371E-03	-1070142E-09
X(21)	-2819293E-08	-3758671E-06	-2229726E-03	-3534356E-03	-3579572E-03	-2181379E-07	-1170279E-01	-9013204E-06
X(47)	-2024817E-07	-2625924E-05	-7752519E-01	-2457844E-02	-1824671E-02	-1322935E-06	-8207804E-01	-4373812E-05
X(31)	-8706775E-08	-9488213E-06	-6088016E-03	-1031783E-04	-889537E-03	-5432213E-07	-3047307E-01	-2182684E-07
X(42)	-3291585E-10	-5181062E-08	-2283862E-05	-5420930E-05	-4120880E-05	-2889800E-09	-1561803E-03	-1029388E-09
X(46)	-2757831E-07	-4632135E-05	-3217297E-02	-5726956E-02	-6021727E-02	-2873522E-06	-1341988E-00	-1108135E-06
X(38)	-1728764E-07	-3123162E-05	-1580183E-02	-3107857E-02	-2586751E-02	-1675140E-06	-8394191E-01	-6512106E-05

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	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	-6502847E-13	-2087522E-08	-1803829E-11	-9837842E-08	-4053744E-09	-2583490E-08	-2886618E-07	-1889399E-08
X(19)	-6145113E-10	-6047135E-05	-1054406E-02	-2320879E-06	-1437158E-06	-1885128E-05	-3220300E-04	-2175504E-05
DC	-8782033E-11	-3747812E-06	-2077039E-03	-5635402E-06	-5379410E-07	-3631051E-06	-3542603E-05	-2370550E-06
X(18)	-1876045E-12	-7174972E-08	-4585847E-09	-2095643E-07	-9820027E-07	-6504138E-06	-6979427E-05	-4606007E-06
X(6)	-7960248E-13	-3771702E-08	-2213304E-11	-7795960E-08	-5005220E-09	-3210687E-08	-3445312E-07	-2282926E-08
X(16)	-3379558E-14	-1810293E-09	-9571738E-11	-4208593E-09	-2104192E-10	-1342688E-09	-1459289E-08	-9642154E-08
X(26)	-1021565E-13	-4803284E-07	-2894279E-10	-1324143E-08	-6577140E-08	-4080828E-07	-4328089E-06	-2965050E-07
X(10)	-7488878E-10	-3408996E-05	-2226178E-03	-6775566E-05	-4488568E-06	-3065858E-05	-3129466E-04	-1879748E-05
X(8)	-1838228E-14	-9857531E-08	-4549655E-11	-2211176E-03	-1128306E-10	-7332469E-08	-7783380E-07	-5110387E-08
X(27)	-2134490E-13	-1008689E-07	-6163084E-09	-2681408E-07	-1359106E-08	-8517514E-06	-937791E-05	-6243403E-06
X(11)	-5149391E-09	-2258855E-04	-1178187E-07	-8603082E-04	-2944957E-05	-1924899E-04	-2142659E-03	-1423288E-04
X(23)	-8115536E-09	-3758600E-04	-2283785E-07	-8742444E-04	-5074717E-05	-3247963E-04	-3462651E-03	-2308180E-04
X(12)	-1559883E-09	-6449872E-03	-4811054E-06	-2547926E-02	-8403202E-04	-5697970E-03	-6781122E-02	-4007989E-03
X(28)	-9166142E-11	-5312941E-06	-2354653E-09	-5430648E-07	-1182194E-07	-2440103E-06	-2989902E-05	-5745602E-06
X(25)	-6106520E-06	-2650675E-01	-1683353E-04	-8747381E-01	-3828960E-02	-2376744E-01	-2402261E-00	-1850546E-01
X(20)	-5856180E-12	-2413028E-07	-1751467E-10	-6348575E-07	-3730835E-08	-2342879E-07	-2396830E-06	-1811929E-07
X(14)	-4512225E-14	-2060915E-09	-1284099E-12	-4803689E-09	-2852888E-10	-1775136E-09	-1908386E-08	-1248835E-09
X(30)	-2301216E-09	-1225774E-04	-6305053E-06	-2857134E-04	-1466983E-05	-9176416E-03	-1022491E-03	-6727839E-03
DT	-2458334E-12	-1220899E-07	-7303334E-09	-1307471E-07	-1800861E-08	-1116171E-07	-1125523E-06	-7092904E-06
X(15)	-3175497E-10	-1559520E-05	-8812764E-07	-3758215E-05	-1848872E-06	-1318882E-05	-1379402E-04	-9322288E-04
X(43)	-1101016E-11	-5122120E-05	-3026504E-08	-1356727E-06	-6925098E-06	-4270457E-05	-4735884E-04	-3178449E-05
X(21)	-8458958E-08	-3863444E-03	-2143172E-06	-1539535E-04	-5440952E-04	-3291773E-03	-3422337E-02	-2370583E-03
X(47)	-5613347E-07	-1547901E-02	-1724113E-05	-1509592E-02	-3645630E-03	-2196288E-02	-2154914E-01	-1071703E-02
X(31)	-2184497E-09	-1099046E-04	-5340690E-06	-3725327E-04	-1354524E-05	-8501428E-03	-9478522E-02	-6835144E-03
X(42)	-1100302E-11	-5357327E-05	-3408469E-08	-1262052E-06	-6814384E-08	-4282133E-05	-4762279E-04	-3124193E-05
X(46)	-1092844E-08	-7380118E-02	-1974844E-05	-2011320E-03	-6425524E-03	-4411892E-02	-4919126E-01	-3183488E-02
X(38)	-6579870E-07	-3164880E-02	-1918320E-05	-9727022E-02	-4089692E-03	-2608725E-02	-2897619E-01	-1916616E-02

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	X(42)	X(48)	X(36)
X(7)	.5202584E+08	.1322611E+07	.3432976E+04
X(19)	.1808255E+05	.2090071E+04	.2482850E+03
DC	.7058588E+07	.1590024E+05	.4055170E+04
X(18)	.1449920E+08	.2936289E+05	.8907876E+04
X(6)	.6646670E+09	.1528331E+07	.4534332E+06
X(16)	.2738679E+10	.6384681E+07	.2007430E+07
X(26)	.8486161E+08	.2012106E+06	.6129098E+05
X(10)	.6201814E+06	.1304492E+04	.3508419E+03
X(8)	.1110012E+10	.4592295E+07	.5892784E+06
X(27)	.1817646E+08	.4142538E+05	.1533584E+05
X(11)	.3523132E+05	.1080656E+03	.2519778E+02
X(23)	.6737077E+05	.1486793E+03	.4723610E+02
X(13)	.1531680E+05	.1629186E+02	.9853841E+01
X(28)	.3457900E+07	.3218072E+05	.8740409E+04
X(25)	.5172614E+02	.9999324E+01	.3307956E+01
X(20)	.5278559E+08	.9876506E+05	.3514316E+05
X(14)	.3661068E+10	.8525088E+07	.2469462E+07
X(30)	.1733716E+05	.4037576E+02	.1110507E+02
DT	.2555582E+08	.5860480E+05	.1488621E+05
X(15)	.2708934E+06	.8250042E+03	.1653857E+03
X(43)	.8085275E+06	.2071217E+04	.6570005E+03
X(21)	.6555778E+04	.1796493E+02	.4481834E+01
X(47)	.3576205E+03	.7558886E+00	.1977167E+00
X(31)	.1563852E+05	.4639033E+02	.1286507E+02
X(42)	.8225398E+06	.2115641E+04	.6767175E+03
X(46)	.7045472E+03	.3169200E+01	.5457477E+00
X(36)	.5086152E+03	.1343408E+01	.3421887E+00

INVERSE OF THE COVARIATES
CROSS PRODUCT MATRIX
FOR ERROR.

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	X(7)	X(19)	DC	X(18)	X(6)	X(16)	X(26)	X(10)
X(7)	.1805863E+00	.1239585E+05	.5827254E+03	.2751055E+04	.1941942E+00	.4842619E+00	.1688378E+04	.5546682E+04
X(19)	.1239585E+05	.2586893E+06	.9900797E+07	.5194088E+06	.4298429E+04	.2444298E+06	.5144130E+07	.4045289E+08
DC	.5827254E+03	.9900797E+07	.1012294E+03	.3284289E+05	.9670832E+04	.1688728E+02	.3237822E+05	.7437198E+06
X(18)	.2751055E+04	.5194088E+06	.3284289E+05	.2605887E+05	.2643829E+03	.8324424E+05	.1504850E+05	.1002204E+07
X(6)	.1941942E+00	.4298429E+04	.9670832E+04	.2643829E+03	.1804058E+01	.6585289E+00	.1504610E+02	.4659630E+04
X(16)	.4842619E+00	.2444298E+06	.1688728E+02	.8324424E+05	.6585289E+00	.1328418E+01	.1389060E+03	.1398214E+03
X(26)	.5144130E+07	.5144130E+07	.3237822E+05	.1504850E+05	.1504610E+02	.1389060E+03	.2492953E+03	.2665838E+07
X(10)	.5546682E+04	.4045289E+08	.7437198E+06	.1002204E+07	.4659630E+04	.1398214E+03	.2665838E+07	.3984368E+07
X(8)	.9286421E+00	.1296099E+03	.1888272E+01	.5260011E+03	.3740870E+01	.2129800E+01	.1466526E+02	.8960793E+03
X(27)	.1498853E+04	.2499798E+07	.7949188E+06	.3353398E+06	.1455433E+05	.1358588E+04	.5362862E+04	.6931454E+08
X(11)	.9572305E+07	.3655694E+08	.3306553E+07	.8202544E+06	.3723988E+06	.4005873E+07	.6092813E+08	.2428101E+09
X(23)	.2459315E+07	.8103654E+09	.5000352E+08	.4027598E+09	.6637542E+07	.2243827E+07	.1470436E+08	.1517504E+10
X(13)	.7885311E+07	.9593005E+10	.4874331E+09	.5986118E+09	.5557746E+06	.6733390E+08	.1164655E+08	.6540583E+12
X(28)	.2108838E+03	.1689242E+06	.8354065E+05	.1947037E+05	.5598767E+02	.1760133E+02	.7814213E+04	.4212647E+06
X(25)	.1362128E+10	.7044581E+12	.1134630E+10	.2238822E+12	.2312300E+09	.7496638E+11	.1349539E+11	.1528190E+12
X(20)	.1650180E+02	.1318046E+05	.2543345E+03	.4884282E+05	.5070985E+03	.4552249E+02	.2999636E+05	.2023489E+05
X(14)	.5677613E+00	.8235010E+04	.1886439E+03	.3442672E+03	.5389749E+01	.2000904E+01	.1124157E+02	.1381210E+03
X(30)	.1570800E+04	.3781819E+10	.1358376E+08	.2881314E+09	.8841817E+06	.4805822E+07	.2016412E+08	.2108932E+11
DT	.5718217E+04	.1394532E+06	.2445532E+05	.6057315E+06	.1855003E+02	.4566404E+02	.1638331E+03	.1339030E+06
X(15)	.1723088E+04	.3531054E+09	.8166885E+07	.5462472E+08	.3637080E+04	.4108871E+04	.6208870E+08	.9323271E+08
X(43)	.1760712E+06	.3734688E+08	.1120186E+07	.5311885E+08	.1031412E+06	.5247725E+06	.4691854E+07	.7823586E+10
X(21)	.7116914E+07	.1015771E+09	.1191590E+07	.8955932E+10	.9257221E+07	.1846482E+06	.2460818E+11	.7769608E+10
X(47)	.7160797E+09	.1644982E+10	.7722031E+10	.3205125E+11	.1657217E+09	.3274633E+08	.5902776E+09	.5320094E+12
X(31)	.4329683E+07	.7053960E+11	.4115881E+09	.1179257E+09	.1089186E+06	.1344711E+07	.4282329E+07	.2702776E+12
X(42)	.8105766E+06	.1119825E+07	.2994502E+07	.2403913E+07	.8996938E+06	.1416510E+05	.4907651E+07	.2082444E+09
X(46)	.1187470E+08	.4149080E+10	.2435282E+08	.8350306E+11	.2342713E+08	.6026735E+08	.1572923E+08	.1218827E+11
X(36)	.1714322E+09	.1443678E+11	.1228436E+10	.1063844E+10	.5967270E+09	.3106513E+08	.9951100E+10	.2586154E+13

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	X(1)	X(2)	X(3)	X(4)	X(5)	X(6)	X(7)	X(8)
X(1)	9288421E-00	1498853E-04	9572305E-07	2459315E-07	7885311E-07	2108836E-03	1362126E-10	1650180E-02
X(2)	1284099E-03	2499798E-07	3655894E-08	8103654E-08	9593005E-10	1689242E-04	7044581E-12	1318049E-05
DC	1888227E-01	7649183E-06	3308553E-07	5000352E-08	4874331E-09	8354065E-05	1134630E-10	2543345E-03
X(18)	5260011E-03	3253388E-06	8202544E-09	4027588E-08	5986118E-09	1947037E-05	2238822E-12	4884282E-05
X(6)	3740870E+01	1455433E-05	3723988E-06	6637542E-07	5557746E-06	5599767E-02	2312200E-08	5070085E-02
X(16)	2129900E+01	1358568E-04	4005973E-07	2243627E-07	6733390E-08	1760133E-02	7496638E-11	4552249E-02
X(26)	1466526E-02	5362862E-04	6013813E-08	1470436E-08	1184655E-06	7814213E-04	1349539E-11	2989636E-05
X(10)	8960793E-03	6931454E-08	2428101E-09	1517584E-10	3540583E-12	4212847E-06	1528190E-12	2023489E-05
X(8)	2856643E-02	4167100E-03	1021639E-05	2541978E-06	3668037E-07	1395963E-01	5723142E-09	4973117E-01
X(27)	4167100E-03	1439636E-04	1584592E-08	5929140E-09	1731676E-07	2678182E-04	6709521E-12	8119773E-06
X(11)	1021639E-05	1584592E-08	2072844E-09	2875403E-10	1764685E-12	2590044E-08	7121889E-13	5184552E-08
X(22)	2541978E-06	5929140E-09	2875403E-10	6457796E-11	7070728E-14	1477772E-09	5439456E-14	2593073E-08
X(13)	3668037E-07	1731676E-07	1764685E-12	7070728E-14	1286104E-09	2877317E-08	3303831E-15	8282859E-09
X(28)	1395963E-01	2678182E-04	2580044E-08	1477772E-09	2877317E-08	2614605E-02	9950221E-12	1293612E-04
X(25)	5723142E-09	6709521E-12	7121889E-13	5439456E-14	3303831E-15	9950221E-12	4424345E-16	1960061E-11
X(20)	4973117E-01	8119773E-06	5166552E-08	2593073E-08	8282859E-09	1293612E-04	1960061E-11	8823555E-03
X(14)	1151550E-02	1862761E-02	9047669E-06	1111388E-06	8988714E-07	1712456E-01	6366981E-09	1948113E-02
X(30)	1453782E-06	4250325E-07	7637772E-12	9122572E-14	1345898E-09	1822243E-08	1037303E-14	3011327E-08
DT	4556667E-02	2913323E-04	1938085E-10	2860026E-10	1195247E-06	8435454E-03	2168840E-12	4134655E-05
X(15)	2238827E-03	3447747E-09	2168748E-10	3031056E-11	2822892E-11	2387159E-06	1488006E-13	1846759E-08
X(42)	1562688E-02	2152861E-07	6218273E-10	1484639E-10	1048452E-10	5702879E-07	1346154E-13	1966699E-07
X(17)	2204368E-05	5286687E-10	1085572E-10	8342516E-12	7595558E-14	2168854E-08	6630210E-14	2702393E-07
X(47)	6767753E-08	2357843E-08	4277964E-12	1005600E-12	5828547E-14	1855596E-10	7864725E-16	3412116E-10
X(31)	7999757E-07	1128931E-07	2552782E-12	4243541E-13	2028697E-10	3481072E-08	3369475E-15	7666958E-09
X(42)	2688502E-05	3245089E-07	2228404E-09	3618641E-10	7570056E-10	3258263E-07	3081800E-13	2547124E-07
X(46)	2031627E-07	5640712E-09	1560445E-11	2550285E-12	3923600E-14	1843299E-09	1482770E-15	2482673E-10
X(36)	9784788E-10	2341037E-10	7352083E-14	1514697E-14	6862162E-13	3606837E-11	4772535E-17	5665882E-11

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	X(14)	X(30)	DT	X(15)	X(43)	X(21)	X(47)	X(31)
X(7)	5677413E-00	1577080E-04	5718217E-04	1722089E-04	1760712E-06	7116914E-07	7169797E-09	4339683E-07
X(19)	6335010E-04	3751919E-10	1294532E-06	2531054E-09	3734668E-08	1015771E-09	1644882E-10	7052980E-11
DC	1688439E-03	1286378E-08	2445533E-05	8166895E-07	1120186E-07	1181590E-07	7732031E-10	4115881E-09
X(18)	3642672E-03	2981316E-09	6057315E-06	5462472E-08	5311885E-08	8955932E-10	3205125E-11	1179257E-08
X(6)	5389749E+01	8841917E-06	1855003E-02	2837060E-04	1031412E-08	6267221E-07	1857217E-09	1889186E-08
X(16)	2008904E+01	4805922E-07	4546404E-05	6108971E-04	5247725E-06	1846482E-08	3274633E-08	1344711E-07
X(26)	1124157E-02	2018412E-06	1638331E-03	6208970E-08	4681854E-07	2460916E-11	5902776E-09	4282329E-07
X(10)	1381210E-03	2108392E-11	1338030E-04	8323271E-08	7923586E-10	7768608E-10	5320094E-12	2702776E-12
X(8)	1151550E-02	1453782E-06	4556667E-02	2238827E-03	1542488E-05	2204368E-05	6767753E-08	7999757E-07
X(27)	1862761E-02	4250325E-07	2913323E-04	3447747E-09	2152961E-07	6286687E-10	2357843E-08	1128931E-07
X(11)	9047669E-06	7637772E-12	1938085E-10	2168748E-10	6216273E-10	1045372E-10	4277964E-12	2552782E-12
X(22)	1111388E-06	9122572E-14	2860026E-10	3031056E-11	1484639E-10	8242516E-12	1005600E-12	4243541E-13
X(12)	8988714E-07	1245898E-09	1195247E-06	2922892E-11	1484452E-10	7595558E-14	5828547E-14	2028697E-10
X(28)	1712456E-01	1832243E-08	8435454E-03	3387159E-06	5127979E-07	2168954E-08	1855596E-10	3481072E-08
X(25)	6366981E-09	1037303E-14	2168840E-12	1418806E-13	1344954E-13	6630210E-14	7864725E-16	3369475E-15
X(20)	1948113E-02	2011327E-08	4134655E-05	1846759E-08	1048452E-10	2702879E-07	3412116E-10	7666958E-09
X(14)	1847930E-02	2118605E-06	5175889E-02	1040688E-05	3054209E-06	2561178E-04	6507637E-09	6926484E-07
X(30)	2118605E-06	2240835E-09	1213391E-06	8056117E-11	6767862E-11	7115428E-15	6627272E-13	4780945E-10
DT	5175889E-02	1213391E-06	4273971E-03	1091452E-06	2544597E-07	6673293E-09	2613625E-10	1681320E-07
X(15)	1060668E-03	5056117E-11	1091452E-06	4088135E-09	2002132E-10	1537457E-10	5372852E-13	2076186E-11
X(43)	3054208E-06	6767862E-11	2544597E-07	2002132E-10	1232750E-08	1708382E-11	6780875E-11	2517110E-11
X(21)	2561178E-06	7115428E-15	6673293E-09	1557457E-10	1708382E-11	2288338E-11	1075241E-13	1010799E-13
X(47)	6507637E-09	6692727E-12	2613625E-10	5372852E-13	6780875E-11	1075241E-13	4781711E-13	3180895E-13
X(31)	6926484E-07	4780945E-10	1691320E-07	2076186E-11	2517110E-11	1010799E-13	3180895E-13	1282559E-10
X(42)	4492971E-08	8115770E-11	2584806E-07	8172980E-10	3434788E-08	2471224E-11	1769687E-10	4226200E-11
X(46)	6845843E-08	8781489E-13	1296984E-10	2258234E-12	1805882E-10	2320911E-13	1244959E-12	5354761E-13
X(36)	2031246E-09	2793072E-13	5378614E-12	1915389E-13	1867539E-12	2894031E-15	2708788E-15	1283048E-13

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	X(42)	X(46)	X(36)
X(7)	-6105766E-06	-1187470E-08	-1714322E-09
X(19)	-1118925E-07	-4149080E-10	-1443878E-11
DC	-2994502E-07	-2435282E-09	-1226436E-10
X(18)	-2403913E-07	-8350306E-11	-1063644E-10
X(6)	-8906938E-06	-2342713E-08	-5967270E-09
X(16)	-1416510E-05	-6026735E-08	-3106513E-09
X(26)	-4807051E-07	-1572923E-08	-9951100E-10
X(10)	-2082484E-08	-1218827E-11	-2586154E-13
X(8)	-2688502E-05	-2031627E-07	-9784788E-10
X(27)	-3245089E-07	-5640712E-09	-2341037E-10
X(11)	-2229404E-09	-1560445E-11	-7352083E-14
X(23)	-3618641E-10	-2550285E-12	-1514687E-14
X(13)	-7570056E-10	-3923600E-14	-6882162E-13
X(28)	-3258263E-07	-1843829E-09	-3608837E-11
X(25)	-3081880E-13	-1482770E-15	-4772535E-17
X(20)	-2547134E-07	-2482673E-10	-5865982E-11
X(14)	-6492971E-06	-6643843E-08	-2033124E-09
X(30)	-8918770E-11	-9791489E-13	-2793072E-13
DT	-2584806E-07	-1286984E-10	-5378614E-12
X(15)	-8172980E-10	-2258234E-12	-1915389E-13
X(43)	-3434786E-08	-1805882E-10	-1887535E-12
X(21)	-3471224E-11	-2220911E-13	-2894031E-15
X(47)	-1789667E-10	-1244869E-12	-2708788E-15
X(37)	-4226209E-11	-5254761E-13	-1230408E-12
X(42)	-1102869E-07	-5377153E-10	-1185847E-11
X(46)	-5377153E-10	-3655476E-12	-6268715E-15
X(36)	-1185847E-11	-6268715E-15	-1172667E-14

ANALYSIS OF COVARIANCE TABLE

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SOURCE	DF	SS	SUM-SQUARES (DUE)	SUM-SQUARES (ABOUT)	DF	MEAN-SQUARE
TREATMENT (BETWEEN)	1	.1261130E+00				
ERROR (WITHIN)	769	.4880598E+01	.4872293E+01	.8304637E-02	741	.1120734E-04
TREATMENT + ERROR (TOTAL)	769	.5006711E+01	.4980291E+01	.8419326E-02	742	.1134680E-04
DIFFERENCE FOR TESTING ADJUSTED TREATMENT MEANS	1			.1146886E-03	1	.1146886E-03

NULL HYPOTHESIS: NO DIFFERENCE AMONG TREATMENTS AFTER ADJUSTING WITH COVARIATES.

F(1, 741) = 10.233

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TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

TREATMENT (BETWEEN)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(7)	.493750000E+01	.754197006E+04	-.00065	50.02064
X(19)	.459289550E-02			
DC	.678710937E-01	.115641827E+03	-.00059	50.01868
X(18)	.141113281E+00	.354725202E+03	-.00040	50.01266
X(6)	.646875000E+01	.681453384E+04	.00095	50.03022
X(16)	.281250000E+02			
X(28)	.847658250E+00			
X(10)	.598140531E-02	.908148889E+01	.00066	50.02097
X(8)	.149062500E+02			
X(27)	.168457031E+00			
X(11)	.406265258E-03			
X(23)	.665644672E-02			
X(13)	.137329101E-03			
X(28)	.439453125E-02	.157136009E+03	.00003	50.00089
X(25)	.485463609E-06	.100946685E-02	.00048	50.01562
X(20)	.498046875E+00	.789812201E+03	-.00063	50.02007
X(14)	.360000000E+02	.719375202E+05	.00050	50.01593
X(30)	.186443328E-03			
DT	.244148625E+00			
X(15)	.278235839E-02	.207556023E+01	.00135	50.04282
X(43)	.854492187E-02	.891195728E+01	.00056	50.03052
X(21)	.655651092E-04	.194300988E+00	.00034	50.01074
X(47)	.467896451E-05	.157208138E-01	-.00020	50.00947
X(31)	.164895656E-03			
X(42)	.855200195E-02			
X(46)	.840425481E-05	.190649155E+01	-.00044	50.01403
X(36)	.552833080E-05			

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TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

ERROR (WITHIN)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(7)	.355538648E-01	.142283528E-02	24.99163	100.00000
X(18)	.252325464E-04	.170599623E-05	-14.79050	100.00000
DC	.481327130E-03	.326825116E-04	-14.58701	100.00000
X(18)	.689745827E-04	.580417048E-05	-12.37482	100.00000
X(6)	.514857031E-01	.449651918E-02	11.45012	100.00000
X(16)	.415492513E-01	.385850073E-02	-10.76824	100.00000
X(28)	.524170045E-03	.528683073E-04	-9.91464	100.00000
X(10)	.651916325E-05	.668237507E-06	9.75578	100.00000
X(8)	.164013387E+00	.178928389E-01	-9.16643	100.00000
X(27)	.102888927E-02	.127027388E-04	8.07465	100.00000
X(11)	.277428705E-06	.481962885E-07	7.83107	100.00000
X(23)	.870894360E-07	.850733204E-08	7.88607	100.00000
X(13)	.298826460E-06	.379655193E-07	-7.86581	100.00000
X(28)	.118831345E-02	.171180690E-03	-6.94187	100.00000
X(25)	.151888437E-05	.222477174E-10	6.82146	100.00000
X(20)	.535667181E-03	.874493485E-04	6.12546	100.00000
X(14)	.768144551E-01	.135896230E-01	-5.65243	100.00000
X(30)	.275977814E-06	.501136655E-07	5.50703	100.00000
DT	.418049609E-03	.692097117E-04	6.04033	100.00000
X(15)	.111408260E-05	.214049213E-06	5.20480	99.99999
X(43)	.562108334E-06	.117540811E-06	-4.78224	99.99999
X(21)	.221648209E-07	.504202589E-08	-4.39989	99.99998
X(47)	.273898349E-08	.732818672E-09	3.72533	99.99999
X(31)	.425087826E-07	.119881928E-07	-3.54542	99.99917
X(42)	.110401188E-05	.251571197E-06	3.14022	99.91224
X(46)	.423434195E-08	.262465818E-08	-2.00200	98.18111
X(36)	.215972475E-09	.114640644E-09	1.88291	97.00157

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TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES

TREATMENT-ERROR (TOTAL)				
	COEFFICIENT	STAND. ERROR	T-VALUE	CONFIDENCE
X(1)	.3559846890E-01	.1431391022E-02	24.86984	100.00000
X(10)	.2512982385E-04	.1716274552E-05	-14.64208	100.00000
DC	.490067751E-03	.3389103884E-04	-14.48190	100.00000
X(18)	.4685428265E-04	.5427887156E-05	-72.29482	100.00000
X(5)	.5158088811E-01	.4524310639E-02	11.40083	100.00000
X(16)	.4162832686E-01	.3882354165E-02	-10.72244	100.00000
X(28)	.5305676544E-03	.5315815892E-04	-9.80093	100.00000
X(10)	.6530462258E-05	.6723728896E-06	9.71254	100.00000
X(8)	.1825975262E-00	.1808324763E-01	-9.08708	100.00000
X(27)	.1047558767E-03	.1278236403E-04	8.20819	100.00000
X(11)	.3787865356E-06	.4848335473E-07	7.81110	100.00000
X(23)	.6838924334E-07	.8557266753E-08	7.95823	100.00000
X(13)	.2816124516E-06	.3782418330E-07	-7.44531	100.00000
X(28)	.1194748622E-02	.1722027755E-02	-6.92892	100.00000
X(25)	.1518870449E-09	.2240583735E-10	6.77935	100.00000
X(20)	.5337462608E-03	.8788969585E-04	6.06601	100.00000
X(14)	.7711871951E-01	.1587358043E-01	-5.83998	100.00000
X(30)	.2807082514E-04	.5040258252E-07	5.58922	100.00000
07	.2628158090E-03	.6751732032E-04	5.38848	100.00000
X(15)	.1103057831E-05	.2153490717E-06	5.12218	99.99998
X(43)	.5682642552E-06	.1182626572E-06	-4.78819	99.99998
X(21)	.2225205614E-07	.5073255867E-08	-4.38815	99.99994
X(47)	.2753726771E-08	.7373263211E-09	3.73475	99.98988
X(37)	.4431177285E-07	.1205019085E-07	-3.67727	99.98736
X(42)	.1111822856E-05	.3537433544E-06	3.14302	99.91307
X(48)	.4248912295E-08	.2036608650E-08	-2.08627	98.13524
X(38)	.2112297319E-09	.1153426792E-09	1.83133	96.62742

TABLE OF ADJUSTED MEANS AND STANDARD ERRORS

FRIDAY, JUL 2, 1976

TREATMENT NO.	TREATMENT MEAN	ADJUSTED MEAN	SE ADJUSTED
1	.4055491E+00	.3941703E+00	.3054807E-03
2	.3789314E+00	.3922970E+00	.3279592E-03

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TABLE OF INTERCEPTS

INTERCEPT = -.5100840011E+01	
(BETWEEN)	
INTERCEPT = .3524255916E+00	
(TOTAL)	
TREATMENT NO.	INTERCEPT (WITHIN)
1	.3522068342E+00
2	.3512335574E+00

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
1	.3265000E+00	.3121919E+00	.1438089E-01	4.50	1
2	.3436000E+00	.3352483E+00	.8351668E-02	2.45	1
3	.3605000E+00	.3578903E+00	.2609731E-02	.73	1
4	.3802000E+00	.3807274E+00	-.5374150E-03	-.14	1
5	.4021000E+00	.4078981E+00	-.4888074E-02	-1.23	1
6	.4215000E+00	.4376051E+00	-.4260534E-02	-.98	1
7	.4461000E+00	.4665851E+00	-.4851278E-03	-.10	1
8	.5010000E+00	.4994457E+00	.1554285E-02	.31	1
9	.5415000E+00	.5342322E+00	.7267766E-02	1.26	1
10	.5491000E+00	.5414120E+00	.7687999E-02	1.42	1
11	.5504000E+00	.5486642E+00	.1725766E-02	.32	1
12	.5501000E+00	.5559882E+00	-.5888248E-02	-1.06	1
13	.5526000E+00	.5623824E+00	-.9782378E-02	-1.74	1
14	.5288000E+00	.5209558E+00	.8844211E-02	2.76	1
15	.5488000E+00	.5500880E+00	-.4266808E-02	-.1.23	1
16	.5704000E+00	.5761261E+00	-.5726138E-02	-1.00	1
17	.5989000E+00	.6007396E+00	-.1839611E-02	-.46	1
18	.6285000E+00	.6300144E+00	-.4144030E-03	-.10	1
19	.6608000E+00	.6618178E+00	-.1017793E-02	-.22	1
20	.6952000E+00	.6960000E+00	-.7998885E-03	-.16	1
21	.8440000E+00	.8324243E+00	.1157567E-01	2.17	1
22	.5491000E+00	.5389674E+00	.9122583E-02	1.89	1
23	.5495000E+00	.5475945E+00	.2305336E-02	.42	1
24	.5495000E+00	.5553046E+00	-.5840461E-02	-.97	1
25	.5549000E+00	.5636870E+00	-.8187030E-02	-1.46	1
26	.5520000E+00	.5656877E+00	-.5610316E-02	-1.72	1
27	.5515000E+00	.5536539E+00	-.2453893E-02	-.69	1
28	.5614000E+00	.5618888E+00	-.4888290E-03	-.12	1
29	.6114000E+00	.6096431E+00	.1756896E-02	.43	1
30	.6406000E+00	.6401707E+00	.4293099E-03	.10	1
31	.6730000E+00	.6729224E+00	.7760901E-04	.02	1
32	.5128000E+00	.5088716E+00	.3928437E-02	.75	1
33	.5498000E+00	.5466471E+00	.3122974E-02	.54	1
34	.5510000E+00	.5548112E+00	-.3811225E-02	-.69	1
35	.5561000E+00	.5627628E+00	-.6662855E-02	-1.18	1
36	.5453000E+00	.5527628E+00	-.7423430E-02	-2.22	1
37	.5728000E+00	.5700828E+00	.2717237E-02	.72	1
38	.6011000E+00	.5970458E+00	.4054200E-02	1.02	1
39	.6282000E+00	.6268152E+00	.1384785E-02	.20	1
40	.6588000E+00	.6577826E+00	.1009174E-02	.15	1
41	.6941000E+00	.6954965E+00	-.1396470E-02	-.28	1
42	.5441000E+00	.5328871E+00	.1021280E-01	1.81	1
43	.5498000E+00	.5418728E+00	.7927492E-02	1.32	1
44	.5503000E+00	.5495576E+00	.7738099E-03	.04	1
45	.5618000E+00	.5620240E+00	-.2228091E-03	-.24	1
46	.5895000E+00	.5882811E+00	.1218209E-03	.07	1
47	.6200000E+00	.6197250E+00	.2742834E-03	.07	1
48	.6440000E+00	.6442637E+00	-.2637389E-03	-.08	1
49	.6800000E+00	.6852864E+00	-.5286449E-03	-.08	1
50	.5252000E+00	.5242664E+00	.9026132E-03	.17	1

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CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
51	.5353000E+00	.5324501E+00	.2849539E-02	.54	1
52	.2886000E+00	.2934517E+00	.5148326E-02	1.75	1
53	.3170000E+00	.3184111E+00	.518958E-02	.16	1
54	.3545000E+00	.3581342E+00	.1636200E-02	.46	1
55	.3545000E+00	.3561963E+00	.1666223E-02	.48	1
56	.3818000E+00	.3824290E+00	.6290195E-03	.16	1
57	.4091000E+00	.4089261E+00	.1738620E-03	.04	1
58	.4375000E+00	.4385246E+00	.1024609E-02	.23	1
59	.4667000E+00	.4679334E+00	.1233430E-02	.26	1
60	.4860000E+00	.5002125E+00	.4212476E-02	.84	1
61	.5029000E+00	.5068777E+00	.3977691E-02	.78	1
62	.5100000E+00	.5136111E+00	.3611085E-02	.70	1
63	.5182000E+00	.5204120E+00	.2112001E-02	.41	1
64	.3036000E+00	.3032902E+00	.3118248E-03	.10	1
65	.3272000E+00	.3295495E+00	.2348468E-02	.71	1
66	.3527000E+00	.3516854E+00	.1014555E-02	.29	1
67	.3778000E+00	.3763509E+00	.1448102E-02	.39	1
68	.4018000E+00	.4035752E+00	.1775228E-02	.44	1
69	.4278000E+00	.4332133E+00	.5313274E-02	1.22	1
70	.4579000E+00	.4651138E+00	.7213751E-02	1.55	1
71	.4978000E+00	.4991419E+00	.1341924E-02	.27	1
72	.5044000E+00	.5061923E+00	.1782314E-02	.35	1
73	.5117000E+00	.5133222E+00	.1622237E-02	.32	1
74	.3128000E+00	.3078046E+00	.4939589E-02	1.60	1
75	.3360000E+00	.3354088E+00	.5911673E-03	.18	1
76	.3615000E+00	.3585843E+00	.2915725E-02	.81	1
77	.3844000E+00	.3843927E+00	.7268731E-05	.00	1
78	.4101000E+00	.4128699E+00	.2769855E-02	.67	1
79	.4384000E+00	.4438659E+00	.5465866E-02	1.23	1
80	.4671000E+00	.4772237E+00	.5323656E-02	1.12	1
81	.4802000E+00	.4841660E+00	.3969950E-02	.82	1
82	.4910000E+00	.4911960E+00	.2098018E-02	.42	1
83	.4978000E+00	.4988128E+00	.4128586E-03	.08	1
84	.5061000E+00	.5051155E+00	.5844953E-03	.12	1
85	.5132000E+00	.5128030E+00	.3969893E-03	.08	1
86	.3260000E+00	.3203566E+00	.5643407E-02	1.76	1
87	.3472000E+00	.3468818E+00	.3381711E-03	.10	1
88	.3727000E+00	.3719215E+00	.7784807E-03	.21	1
89	.3997000E+00	.3988429E+00	.1428963E-03	.04	1
90	.4267000E+00	.4306599E+00	.3959367E-02	.92	1
91	.4598000E+00	.4642084E+00	.4608356E-02	.99	1
92	.4670000E+00	.4712305E+00	.4230485E-02	.90	1
93	.4741000E+00	.4788537E+00	.4753876E-02	.88	1
94	.4822000E+00	.4855767E+00	.3376674E-02	.70	1
95	.4912000E+00	.4928982E+00	.1698262E-02	.34	1
96	.5012000E+00	.5003173E+00	.8827467E-03	.18	1
97	.3384000E+00	.3300093E+00	.8390706E-02	2.54	1
98	.3623000E+00	.3620644E+00	.2358109E-03	.07	1
99	.3900000E+00	.3893616E+00	.6384438E-03	.16	1
100	.4171000E+00	.4198710E+00	.2770998E-02	.66	1

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CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
101	.4491000E+00	.4535982E+00	.4498236E-02	.99	1
102	.4558000E+00	.4607145E+00	.4814540E-02	1.07	1
103	.4634000E+00	.4679492E+00	.4548237E-02	.97	1
104	.4712000E+00	.4753017E+00	.4101727E-02	.86	1
105	.4791000E+00	.4827704E+00	.3670440E-02	.76	1
106	.2871000E+00	.2680996E+00	.9998364E-03	.37	1
107	.2861000E+00	.2857454E+00	.3545794E-03	.12	1
108	.3049000E+00	.3022442E+00	.2655656E-02	.88	1
109	.3231000E+00	.3211734E+00	.1926485E-02	.60	1
110	.3416000E+00	.3423802E+00	.7802200E-03	.23	1
111	.3635000E+00	.3656782E+00	.2178204E-02	.60	1
112	.3889000E+00	.3908088E+00	.2008900E-02	.51	1
113	.4186000E+00	.4179412E+00	.6587662E-03	.16	1
114	.4238000E+00	.4235540E+00	.2458638E-03	.06	1
115	.4294000E+00	.4292237E+00	.1662776E-03	.04	1
116	.4352000E+00	.4349795E+00	.2204640E-03	.05	1
117	.4411000E+00	.4407907E+00	.3092550E-03	.07	1
118	.4473000E+00	.4466666E+00	.6332600E-03	.14	1
119	.2784000E+00	.2752764E+00	.3124612E-02	1.14	1
120	.3090000E+00	.2981530E+00	.3846974E-02	1.30	1
121	.3168000E+00	.3151328E+00	.1667161E-02	.53	1
122	.3363000E+00	.3367447E+00	.4446762E-03	.13	1
123	.3584000E+00	.3608857E+00	.2465680E-02	.68	1
124	.3828000E+00	.3873046E+00	.3504590E-02	.90	1
125	.4128000E+00	.4158928E+00	.2092800E-02	.50	1
126	.4205000E+00	.4218555E+00	.1355489E-02	.32	1
127	.4271000E+00	.4278974E+00	.7874129E-03	.19	1
128	.4338000E+00	.4340176E+00	.2175535E-03	.05	1
129	.4410000E+00	.4402151E+00	.788138E-03	.18	1
130	.4688000E+00	.4664890E+00	.2311023E-02	.52	1
131	.2847000E+00	.2816290E+00	.3070958E-02	1.09	1
132	.3052000E+00	.3009045E+00	.4293463E-02	1.43	1
133	.3229000E+00	.3205258E+00	.1874183E-02	.62	1
134	.3427000E+00	.3436807E+00	.4806569E-03	.14	1
135	.3670000E+00	.3690545E+00	.2054454E-02	.56	1
136	.3943000E+00	.3968513E+00	.2551229E-02	.64	1
137	.4258000E+00	.4268969E+00	.988517E-03	.23	1
138	.4327000E+00	.4331624E+00	.462426E-03	.11	1
139	.2960000E+00	.298110E+00	.890020E-04	.02	1
140	.2992000E+00	.2880218E+00	.4278416E-02	1.50	1
141	.3126000E+00	.3103744E+00	.225605E-02	.72	1
142	.3345000E+00	.3322779E+00	.222086E-02	.67	1
143	.3575000E+00	.3571457E+00	.3543155E-03	.10	1
144	.3845000E+00	.3848593E+00	.3593286E-03	.09	1
145	.4153000E+00	.4152087E+00	.9131930E-04	.02	1
146	.4216000E+00	.4215777E+00	.2228312E-04	.01	1
147	.4283000E+00	.4280432E+00	.2568120E-03	.06	1
148	.3020000E+00	.2965857E+00	.5414329E-02	.83	1
149	.3250000E+00	.3232571E+00	.1742899E-02	.54	1
150	.3498000E+00	.3475981E+00	.2201895E-02	.63	1

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CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
151	.3760000E+00	.3748539E+00	.1146058E-02	.31	1
152	.4060000E+00	.4054788E+00	.1021147E-02	.25	1
153	.4136000E+00	.4119628E+00	.6372136E-03	.15	1
154	.2520000E+00	.2513332E+00	.6618035E-03	.26	1
155	.2647000E+00	.2640767E+00	.6252796E-03	.24	1
156	.2782000E+00	.2782849E+00	-.8687451E-04	-.03	1
157	.2839000E+00	.2852835E+00	-.1383501E-02	-.47	1
158	.3116000E+00	.3147172E+00	-.3117174E-02	-.99	1
159	.3240000E+00	.3263248E+00	-.2324753E-02	-.69	1
160	.3577000E+00	.3599113E+00	-.2211335E-02	-.61	1
161	.3858000E+00	.3853255E+00	.4744667E-03	.12	1
162	.3908000E+00	.3906166E+00	.1834327E-03	.05	1
163	.3962000E+00	.3959748E+00	.2250851E-03	.06	1
164	.4019000E+00	.4013997E+00	.5002513E-03	.12	1
165	.2585000E+00	.2570259E+00	.1474146E-02	.57	1
166	.2734000E+00	.2729942E+00	.4057889E-03	.15	1
167	.2867000E+00	.2868853E+00	-.1472619E-04	.01	1
168	.3083000E+00	.3083867E+00	-.1066732E-02	-.34	1
169	.3298000E+00	.3317145E+00	-.1914538E-02	-.58	1
170	.3539000E+00	.3564630E+00	-.2563045E-02	-.72	1
171	.3822000E+00	.3824072E+00	-.1207241E-02	-.31	1
172	.3884000E+00	.3890447E+00	-.6447129E-03	-.17	1
173	.3980000E+00	.3947623E+00	.3769196E-04	.01	1
174	.3519000E+00	.3502097E+00	.1690327E-02	.65	1
175	.2783000E+00	.2779252E+00	.3848212E-03	.30	1
176	.2954000E+00	.2951857E+00	.2043102E-03	.14	1
177	.3140000E+00	.3160201E+00	-.2014954E-04	-.01	1
178	.3382000E+00	.3386207E+00	-.420748E-02	-.42	1
179	.3639000E+00	.3657272E+00	-.1827220E-02	-.50	1
180	.3696000E+00	.3712298E+00	-.1629810E-02	-.44	1
181	.3754000E+00	.3768226E+00	-.1422613E-02	-.39	1
182	.3815000E+00	.3825042E+00	-.1004243E-02	-.26	1
183	.3878000E+00	.3882734E+00	-.4733728E-03	-.12	1
184	.2491000E+00	.2477116E+00	.1384011E-02	.52	1
185	.2887000E+00	.2871595E+00	.1540461E-02	.54	1
186	.3083000E+00	.3067743E+00	.1525710E-02	.50	1
187	.3304000E+00	.3297117E+00	.6883196E-03	.21	1
188	.3550000E+00	.3556521E+00	-.6521258E-03	-.21	1
189	.3605000E+00	.3611744E+00	-.6744023E-03	-.18	1
190	.3661000E+00	.3668033E+00	-.7032622E-03	-.19	1
191	.3719000E+00	.3725388E+00	-.6368360E-03	-.17	1
192	.3779000E+00	.3782733E+00	-.3733408E-03	-.13	1
193	.2821000E+00	.2821601E+00	-.6012924E-04	-.02	1
194	.3033000E+00	.3017244E+00	.1565572E-02	.52	1
195	.3236000E+00	.3235867E+00	.1333915E-04	.00	1
196	.3477000E+00	.3481121E+00	-.4412111E-02	-.40	1
197	.3529000E+00	.3546274E+00	-.1727388E-02	-.49	1
198	.3584000E+00	.3602728E+00	-.1827258E-02	-.52	1
199	.3641000E+00	.3660456E+00	-.1945600E-02	-.53	1
200	.3057000E+00	.3051117E+00	.5883270E-03	.19	2

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
201	.3284000E+00	.3294274E+00	-.2972619E-02	-.91	2
202	.3476000E+00	.3457865E+00	.1813405E-02	.52	2
203	.3715000E+00	.3722924E+00	-.7924230E-03	-.21	2
204	.3930000E+00	.3964179E+00	-.3417903E-02	-.86	2
205	.4240000E+00	.4268189E+00	-.2818932E-02	-.66	2
206	.4592000E+00	.4583143E+00	.8856783E-03	.19	2
207	.4919000E+00	.4929349E+00	-.1034939E-02	-.21	2
208	.5297000E+00	.5297915E+00	-.9915264E-03	-.11	2
209	.5419000E+00	.5374197E+00	.4480293E-02	.83	2
210	.5488000E+00	.5451313E+00	.3668683E-02	.67	2
211	.5498000E+00	.5529255E+00	-.3079940E-02	-.57	2
212	.3094000E+00	.3176729E+00	-.827796E-02	-2.60	2
213	.3244000E+00	.3412205E+00	-.1882050E-02	-2.00	2
214	.3620000E+00	.3640606E+00	-.2060606E-02	-.57	2
215	.3920000E+00	.3905135E+00	.1486651E-02	.38	2
216	.4220000E+00	.4202899E+00	.1711124E-02	.41	2
217	.4503000E+00	.4530924E+00	-.2792430E-02	-.62	2
218	.4854000E+00	.4886838E+00	-.3283838E-02	-.67	2
219	.5225000E+00	.5266882E+00	-.4183882E-02	-.79	2
220	.5429000E+00	.5448016E+00	-.1908416E-02	-.35	2
221	.5494000E+00	.5428310E+00	.6568982E-02	1.21	2
222	.5502000E+00	.5509554E+00	-.755498E-03	-.14	2
223	.3174000E+00	.3234727E+00	-.6072717E-02	-1.86	2
224	.3455000E+00	.3483074E+00	-.2807407E-02	-.81	2
225	.3743000E+00	.3721870E+00	.2113027E-02	.57	2
226	.4040000E+00	.3997828E+00	.4217156E-02	1.05	2
227	.4350000E+00	.4328328E+00	.2166212E-02	.25	2
228	.4650000E+00	.4683801E+00	-.3380075E-02	-.72	2
229	.5028000E+00	.5020213E+00	.7787171E-03	.12	2
230	.5495000E+00	.5417568E+00	.7743174E-02	1.42	2
231	.5498000E+00	.5500113E+00	-.2112768E-03	-.04	2
232	.3364000E+00	.3351488E+00	.1251958E-02	.37	2
233	.3647000E+00	.3621717E+00	.2528222E-02	.70	2
234	.3935000E+00	.3879355E+00	.5564515E-02	1.43	2
235	.4180000E+00	.4150241E+00	.2975862E-02	.72	2
236	.4480000E+00	.4472720E+00	.7279531E-03	.16	2
237	.4852000E+00	.4877263E+00	-.252470E-02	.30	2
238	.4987000E+00	.4854468E+00	.13253158E-02	.64	2
239	.5040000E+00	.5032888E+00	.711194E-02	.70	2
240	.5150000E+00	.5112505E+00	.3749539E-02	.65	2
241	.5257000E+00	.5182591E+00	.7369880E-02	1.23	2
242	.5361000E+00	.5275262E+00	.8573844E-02	1.63	2
243	.5332000E+00	.5312546E+00	.1945233E-02	.55	2
244	.3807000E+00	.3805961E+00	.1038701E-03	.03	2
245	.4070000E+00	.4085974E+00	-.1597421E-02	-.39	2
246	.4382000E+00	.4408943E+00	-.2694279E-02	-.61	2
247	.4759000E+00	.4771736E+00	-.273583E-02	-.57	2
248	.4954000E+00	.4848763E+00	.1055231E-02	.11	2
249	.4939000E+00	.4927219E+00	.1178078E-02	.24	2
250	.5022000E+00	.5007082E+00	.1491789E-02	.30	2

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
251	.5103000E+00	.5088329E+00	.1467148E-02	.29	2
252	.5189000E+00	.5170937E+00	.1806290E-02	.35	2
253	.5240000E+00	.522777E+00	.1222158E-02	.23	2
254	.5048000E+00	.5073392E+00	-.2531170E-02	-.83	2
255	.5275000E+00	.5264518E+00	.1048235E-02	.32	2
256	.5474000E+00	.5472962E+00	.1037796E-03	.03	2
257	.5734000E+00	.5717087E+00	.1697890E-02	.46	2
258	.5985000E+00	.5986961E+00	-.1960830E-03	-.05	2
259	.6261000E+00	.6280451E+00	-.1945126E-02	-.45	2
260	.6579000E+00	.6611390E+00	-.3238002E-02	-.70	2
261	.6886000E+00	.6931731E+00	-.4573082E-02	-.72	2
262	.6965000E+00	.6901203E+00	.6426334E-02	.73	2
263	.2948000E+00	.3000683E+00	-.5268304E-02	-.176	2
264	.5197000E+00	.5213512E+00	-.1661168E-02	-.52	2
265	.5445000E+00	.5422383E+00	.2261706E-02	.66	2
266	.5664000E+00	.5644829E+00	.1919122E-04	-.02	2
267	.5913000E+00	.5930900E+00	-.1750892E-02	-.64	2
268	.6213000E+00	.6239379E+00	-.2637862E-02	-.82	2
269	.6521000E+00	.6566445E+00	-.4544520E-02	-.100	2
270	.6812000E+00	.6917471E+00	-.1047149E-02	-.11	2
271	.6981000E+00	.6990416E+00	-.9415704E-03	-.19	2
272	.5015000E+00	.5050064E+00	-.3508421E-02	-.115	2
273	.5289000E+00	.5275864E+00	.1314142E-02	.21	2
274	.5505000E+00	.5495030E+00	.9999936E-03	.29	2
275	.5738000E+00	.5748907E+00	-.1090655E-02	-.34	2
276	.6019000E+00	.6034695E+00	-.1569471E-02	-.39	2
277	.6310000E+00	.6349563E+00	-.3956337E-02	-.31	2
278	.6652000E+00	.6691203E+00	-.3920306E-02	-.84	2
279	.6732000E+00	.6762572E+00	-.3057235E-02	-.64	2
280	.6816000E+00	.6834923E+00	-.1892331E-02	-.39	2
281	.6901000E+00	.6908243E+00	-.7243208E-03	-.15	2
282	.5116000E+00	.5148607E+00	-.3260713E-02	-.104	2
283	.5385000E+00	.5386288E+00	-.1328751E-02	.82	2
284	.5633000E+00	.5634296E+00	-.1295833E-03	-.04	2
285	.5909000E+00	.5909302E+00	-.3016176E-04	-.01	2
286	.6185000E+00	.6216488E+00	-.3148825E-02	-.56	2
287	.6522000E+00	.6558882E+00	-.3688169E-02	-.81	2
288	.6597000E+00	.6630481E+00	-.3340888E-02	-.72	2
289	.6876000E+00	.6903212E+00	-.2721174E-02	-.58	2
290	.6760000E+00	.6777058E+00	-.1705775E-02	-.36	2
291	.5263000E+00	.5283021E+00	-.2002108E-02	-.61	2
292	.5525000E+00	.5553888E+00	-.2887794E-02	-.59	2
293	.5810000E+00	.5816271E+00	-.6270908E-03	.11	2
294	.6100000E+00	.6115157E+00	-.1515726E-02	-.37	2
295	.6418000E+00	.6453457E+00	-.3545656E-02	-.80	2
296	.6690000E+00	.6725309E+00	-.3530909E-02	-.78	2
297	.6830000E+00	.6898502E+00	-.6850262E-02	-.73	2
298	.6613000E+00	.6640511E+00	-.2751076E-02	-.104	2
299	.2780000E+00	.2774107E+00	.5892218E-03	.21	2
300	.2955000E+00	.2926731E+00	.2826853E-02	.97	2

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
301	.5128000E+00	.5110210E+00	.1778964E-02	.57	2
302	.5331000E+00	.5320458E+00	.1054169E-02	.32	2
303	.5547000E+00	.5554540E+00	-.7540126E-03	-.21	2
304	.5808000E+00	.5810286E+00	-.2264944E-03	-.11	2
305	.6117000E+00	.6086021E+00	.3097897E-02	.76	2
306	.6171000E+00	.6143444E+00	.2755628E-02	.67	2
307	.6230000E+00	.6201602E+00	.2827992E-02	.69	2
308	.6292000E+00	.6260477E+00	.3151318E-02	.74	2
309	.6356000E+00	.6320989E+00	.3505068E-02	.85	2
310	.6711000E+00	.6721815E+00	-.1081472E-02	-.10	2
311	.6892000E+00	.6887729E+00	.4270732E-03	.15	2
312	.5078000E+00	.5065163E+00	.1262714E-02	.35	2
313	.5278000E+00	.5275470E+00	.2529950E-03	.08	2
314	.5501000E+00	.5514859E+00	-.1385933E-02	-.39	2
315	.5763000E+00	.5780350E+00	-.1735043E-02	-.46	2
316	.6072000E+00	.6069673E+00	.2327087E-03	.06	2
317	.6139000E+00	.6130234E+00	.8768330E-03	.21	2
318	.6212000E+00	.6191683E+00	.2032709E-02	.49	2
319	.6284000E+00	.6253989E+00	.3005125E-02	.91	2
320	.6745000E+00	.6760137E+00	-.1517366E-02	-.55	2
321	.6956000E+00	.6938923E+00	.1707680E-02	.58	2
322	.5141000E+00	.5126751E+00	.1424854E-02	.46	2
323	.5351000E+00	.5348489E+00	.2511324E-03	.07	2
324	.5590000E+00	.5600406E+00	-.1040589E-02	-.29	2
325	.5874000E+00	.5879477E+00	-.5476637E-03	-.14	2
326	.5836000E+00	.5838335E+00	-.2334529E-03	.06	2
327	.6000000E+00	.5988168E+00	.11822665E-03	.05	2
328	.6066000E+00	.6058962E+00	.7038372E-03	.17	2
329	.6135000E+00	.6120701E+00	.1428985E-02	.35	2
330	.6205000E+00	.6183372E+00	.2162773E-02	.52	2
331	.6225000E+00	.6238829E+00	-.1362890E-02	-.49	2
332	.5044000E+00	.5039495E+00	.4504813E-03	.15	2
333	.5265000E+00	.5246166E+00	.1882416E-02	.58	2
334	.5499000E+00	.5489032E+00	.9967838E-03	.29	2
335	.5773000E+00	.5764348E+00	.8651954E-03	.23	2
336	.5822000E+00	.5823012E+00	-.9987428E-03	.26	2
337	.5895000E+00	.5882824E+00	.1217556E-02	.31	2
338	.5959000E+00	.5943743E+00	.1522689E-02	.39	2
339	.6030000E+00	.6008984E+00	.2019087E-02	.50	2
340	.6095000E+00	.6068944E+00	.2605644E-02	.64	2
341	.2920000E+00	.2950044E+00	-.3104440E-02	-.71	2
342	.5172000E+00	.5173887E+00	-.1696971E-03	-.06	2
343	.5474000E+00	.5402942E+00	.7105753E-02	.62	2
344	.5891000E+00	.5871690E+00	.1931044E-02	.53	2
345	.5750000E+00	.5729844E+00	.2015645E-02	.54	2
346	.5811000E+00	.5789392E+00	.2160842E-02	.57	2
347	.5873000E+00	.5850205E+00	.2269525E-02	.89	2
348	.5937000E+00	.5912536E+00	.2444443E-02	.62	2
349	.2456000E+00	.2474156E+00	-.1815591E-02	-.73	2
350	.2559000E+00	.2558178E+00	.8177614E-03	.12	2

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CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
351	.2705000E+00	.2680027E+00	.1497291E-02	.56	2
352	.2863000E+00	.2857400E+00	.5599717E-03	.20	2
353	.3021000E+00	.3035913E+00	-.1113252E-02	-.39	2
354	.3253000E+00	.3275810E+00	-.2281039E-02	-.70	2
355	.3506000E+00	.3520414E+00	-.1441393E-02	-.41	2
356	.3787000E+00	.3785801E+00	.1119800E-02	.30	2
357	.3849000E+00	.3841234E+00	.7766403E-03	.20	2
358	.3905000E+00	.3897425E+00	.7574718E-03	.19	2
359	.2521000E+00	.2540579E+00	-.1957893E-02	-.77	2
360	.2651000E+00	.2656919E+00	-.5919162E-03	-.22	2
361	.2819000E+00	.2813578E+00	.5422459E-03	.19	2
362	.3009000E+00	.3007779E+00	.1220965E-03	.04	2
363	.3228000E+00	.3233453E+00	-.5453017E-03	-.17	2
364	.3472000E+00	.3486740E+00	-.1475975E-02	-.42	2
365	.3761000E+00	.3764919E+00	-.3919435E-03	-.10	2
366	.3824000E+00	.3823354E+00	.6463978E-04	.02	2
367	.2557000E+00	.2576076E+00	-.1907594E-02	-.74	2
368	.2701000E+00	.2705287E+00	-.4287459E-03	-.16	2
369	.2881000E+00	.2872341E+00	.8659500E-03	.30	2
370	.3087000E+00	.3077972E+00	.9027974E-03	.29	2
371	.3323000E+00	.3316174E+00	.6826057E-03	.21	2
372	.3576000E+00	.3583040E+00	-.7040324E-03	-.20	2
373	.3634000E+00	.3638595E+00	-.5595079E-03	-.15	2
374	.3844000E+00	.3897155E+00	-.5164789E-03	-.09	2
375	.3755000E+00	.3755732E+00	-.2880236E-04	.01	2
376	.2634000E+00	.2657033E+00	-.2303251E-02	-.87	2
377	.2807000E+00	.2808124E+00	-.1124475E-03	-.04	2
378	.2912000E+00	.2994020E+00	-.1798009E-02	-.60	2
379	.3238000E+00	.3220781E+00	.1721926E-02	.53	2
380	.3490000E+00	.3482381E+00	.7618876E-03	.22	2
381	.3545000E+00	.3538502E+00	.6497877E-03	.18	2
382	.3602000E+00	.3595825E+00	.6174594E-03	.17	2
383	.2773000E+00	.2785170E+00	-.1216974E-02	-.43	2
384	.2967000E+00	.2959448E+00	.7552010E-03	.26	2
385	.3173000E+00	.3167718E+00	.5281724E-03	.17	2
386	.3419000E+00	.3420340E+00	-.1358672E-03	-.04	2
387	.3475000E+00	.3475617E+00	-.6173733E-04	-.02	2
388	.2936000E+00	.2919199E+00	.1680051E-02	.58	2
389	.3129000E+00	.3129549E+00	-.5436127E-04	-.02	2
390	.3347000E+00	.3339818E+00	.7182096E-03	.22	2
391	.3605000E+00	.3610242E+00	-.5242403E-03	-.15	2
392	.3864000E+00	.3862336E+00	.1664203E-03	.04	2
393	.4132000E+00	.4168399E+00	-.3640089E-02	-.89	2
394	.4488000E+00	.4500870E+00	-.1286974E-02	-.29	2
395	.4844000E+00	.4857972E+00	-.1397214E-02	-.29	2
396	.5174000E+00	.5238114E+00	-.6411430E-02	-.12	2
397	.5285000E+00	.5216790E+00	.6789632E-02	.60	2
398	.5401000E+00	.5396325E+00	.4675295E-03	.09	2
399	.7018000E+00	.7054359E+00	-.3635860E-02	-.19	2
400	.7287000E+00	.7297026E+00	-.1602625E-02	-.49	2

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
401	.3556000E+00	.3572104E+00	-.2389556E-02	-.68	2
402	.3846000E+00	.3804279E+00	.4172055E-02	.10	2
403	.4131000E+00	.4110592E+00	.2040803E-02	.50	2
404	.4395000E+00	.4448025E+00	-.5302455E-02	-.19	2
405	.4778000E+00	.4814111E+00	-.3611132E-02	-.75	2
406	.5189000E+00	.5206851E+00	-.1785117E-02	-.34	2
407	.5215000E+00	.5288447E+00	-.2655282E-02	-.50	2
408	.3108000E+00	.3116015E+00	-.8015191E-03	-.26	2
409	.3382000E+00	.3371594E+00	.1044587E-02	.31	2
410	.3668000E+00	.3617037E+00	.4987301E-02	.35	2
411	.3954000E+00	.3900632E+00	.5326797E-02	.37	2
412	.4210000E+00	.4203538E+00	.6462080E-03	.15	2
413	.4528000E+00	.4570485E+00	-.4248472E-02	-.93	2
414	.4953000E+00	.4951145E+00	.1855391E-03	.04	2
415	.5054000E+00	.5030646E+00	.2335352E-02	.46	2
416	.5147000E+00	.5111236E+00	.3576366E-02	.70	2
417	.5232000E+00	.5192900E+00	.3909981E-02	.75	2
418	.5332000E+00	.5275625E+00	.5637549E-02	1.07	2
419	.5243000E+00	.5238971E+00	.2432913E-02	.75	2
420	.3538000E+00	.3516090E+00	.2190974E-02	.62	2
421	.3820500E+00	.3780406E+00	.3959449E-02	1.05	2
422	.4081000E+00	.4085140E+00	-.4860147E-03	.17	2
423	.4405000E+00	.4427179E+00	-.2237877E-02	-.51	2
424	.4786000E+00	.4803916E+00	-.1715782E-02	-.16	2
425	.4892000E+00	.4883095E+00	.8904793E-03	.18	2
426	.4952000E+00	.4963520E+00	-.2848032E-02	-.57	2
427	.5081000E+00	.5045171E+00	.3582880E-02	.71	2
428	.5176000E+00	.5113032E+00	.6366756E-02	.94	2
429	.7293000E+00	.7405304E+00	-.1230373E-02	-.16	2
430	.7683000E+00	.7705996E+00	-.2290940E-02	-.35	2
431	.3967000E+00	.3993800E+00	-.2680098E-03	-.11	2
432	.4302000E+00	.4223214E+00	.7878786E-02	.49	2
433	.4671000E+00	.4694566E+00	-.2356600E-02	-.50	2
434	.4761000E+00	.4773407E+00	-.1240725E-02	-.26	2
435	.4856000E+00	.4853711E+00	.2288744E-03	.05	2
436	.7474000E+00	.7652632E+00	-.1826277E-02	-.66	2
437	.2919000E+00	.2959215E+00	-.4021522E-02	-.13	2
438	.3168000E+00	.3149259E+00	.1874144E-02	.60	2
439	.3400000E+00	.3369921E+00	.3007897E-02	.89	2
440	.3632000E+00	.3618609E+00	.1339085E-02	.37	2
441	.3878000E+00	.3884825E+00	-.668682E-03	.14	2
442	.4187900E+00	.4190426E+00	-.245738E-03	.08	2
443	.4523000E+00	.4509855E+00	.1314489E-02	.29	2
444	.4580000E+00	.4576233E+00	.3767313E-03	.08	2
445	.4641000E+00	.4643417E+00	-.2417353E-03	.05	2
446	.4704000E+00	.4711400E+00	-.7399729E-03	-.16	2
447	.4770000E+00	.4780171E+00	-.1017075E-02	-.21	2
448	.4838000E+00	.4849722E+00	-.1172185E-02	-.24	2
449	.7084000E+00	.7082721E+00	.1279333E-03	.04	2
450	.7199000E+00	.7199992E+00	-.935310E-06	.00	2

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
451	.3341000E+00	.3323844E+00	.1715610E-02	.52	2
452	.3559000E+00	.3571335E+00	-.1233466E-02	-.35	2
453	.3820000E+00	.3849164E+00	-.2916411E-02	-.76	2
454	.4123000E+00	.4154757E+00	-.3175706E-02	-.76	2
455	.4452000E+00	.4485966E+00	-.3396612E-02	-.76	2
456	.4526000E+00	.4555121E+00	-.2912132E-02	-.64	2
457	.4601000E+00	.4625217E+00	-.2421740E-02	-.52	2
458	.4685000E+00	.4696242E+00	-.1124236E-02	-.24	2
459	.4770000E+00	.4768185E+00	.1815401E-03	.04	2
460	.4855000E+00	.4841033E+00	.1396707E-02	.29	2
461	.4942000E+00	.4925781E+00	.1623339E-03	.21	2
462	.5178000E+00	.5174803E+00	.3097073E-03	.10	2
463	.5389000E+00	.5400150E+00	-.1149839E-03	-.03	2
464	.5645000E+00	.5658071E+00	-.1407063E-02	-.38	2
465	.5923000E+00	.5946428E+00	-.2342802E-02	-.67	2
466	.6233000E+00	.6268601E+00	-.3560622E-02	-.83	2
467	.6587000E+00	.6614383E+00	-.2738280E-02	-.59	2
468	.6968000E+00	.6986567E+00	-.1856682E-02	-.40	2
469	.7344000E+00	.7359728E+00	-.1572904E-03	-.12	2
470	.7826000E+00	.7840197E+00	-.1413699E-02	-.47	2
471	.8287000E+00	.8301220E+00	-.1421971E-02	-.43	2
472	.8546000E+00	.8545308E+00	.6909822E-04	.02	2
473	.8817000E+00	.8825358E+00	-.8359113E-03	-.22	2
474	.9125000E+00	.9129115E+00	-.4171496E-02	-.34	2
475	.9458000E+00	.9483812E+00	-.2581234E-02	-.62	2
476	.9822000E+00	.9856251E+00	-.3425061E-02	-.53	2
477	1.0163000E+00	1.0180186E+00	-.1718556E-02	-.54	2
478	1.0470000E+00	1.0484385E+00	-.1429456E-02	-.79	2
479	1.0750000E+00	1.0750558E+00	-.5587188E-04	-.02	2
480	1.0932000E+00	1.0935788E+00	-.4789383E-03	-.12	2
481	1.0910000E+00	1.092511E+00	-.1151099E-02	-.28	2
482	1.1520000E+00	1.156964E+00	-.4983755E-02	-.42	2
483	1.2160000E+00	1.228282E+00	-.1222821E-02	-.53	2
484	1.2810000E+00	1.308282E+00	-.2728154E-02	-.63	2
485	1.3510000E+00	1.379658E+00	-.2865790E-02	-.65	2
486	1.4240000E+00	1.4521819E+00	-.2818119E-02	-.80	2
487	1.4990000E+00	1.5275580E+00	-.2842038E-02	-.54	2
488	1.5740000E+00	1.6028450E+00	-.2845072E-02	-.48	2
489	1.6500000E+00	1.6791428E+00	-.2917064E-02	-.48	2
490	1.7240000E+00	1.7533408E+00	-.2911154E-02	-.23	2
491	1.8040000E+00	1.8337888E+00	-.2988061E-03	-.11	2
492	1.8720000E+00	1.9023256E+00	-.3044470E-03	-.10	2
493	1.9480000E+00	1.977696E+00	-.2920380E-02	-.21	2
494	2.0240000E+00	2.054773E+00	-.3022734E-02	-.21	2
495	2.1000000E+00	2.1312557E+00	-.3144266E-02	-.30	2
496	2.1720000E+00	2.2071042E+00	-.3555818E-02	-.46	2
497	2.2500000E+00	2.281248E+00	-.3130795E-02	-.40	2
498	2.3280000E+00	2.374748E+00	-.4645525E-03	-.13	2
499	2.3930000E+00	2.482487E+00	-.1128896E-04	-.02	2
500	2.4700000E+00	2.586235E+00	-.1164511E-04	-.02	2

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
501	.3423000E+00	.3437356E+00	-.1435631E-02	-.42	2
502	.3687000E+00	.3703345E+00	-.1634480E-02	-.44	2
503	.4006000E+00	.402186E+00	-.1581159E-02	-.35	2
504	.4078000E+00	.4052551E+00	.2544852E-02	.63	2
505	.4152000E+00	.4113752E+00	.3824839E-02	.93	2
506	.4667000E+00	.4654651E+00	.1234933E-02	.47	2
507	.4846000E+00	.4853601E+00	-.7601303E-03	-.27	2
508	.5053000E+00	.5047735E+00	.5265476E-03	.17	2
509	.5274000E+00	.5272913E+00	.1087066E-03	.03	2
510	.5515000E+00	.5526562E+00	-.1156169E-02	-.33	2
511	.5802000E+00	.5806120E+00	-.4129832E-03	-.11	2
512	.5865000E+00	.5864964E+00	.3610129E-05	.00	2
513	.5831000E+00	.5824736E+00	.6263806E-03	.16	2
514	.6000000E+00	.5985433E+00	.1456715E-02	.37	2
515	.6754000E+00	.6738236E+00	.1676438E-02	.54	2
516	.6953000E+00	.6960067E+00	-.7066700E-03	-.24	2
517	.7191000E+00	.7173042E+00	.1795768E-02	.57	2
518	.7429000E+00	.7419350E+00	.9649971E-03	.28	2
519	.7604000E+00	.766387E+00	-.5902748E-03	-.21	2
520	.7644000E+00	.775250E+00	-.1079674E-02	-.23	2
521	.7624000E+00	.7815203E+00	-.1979674E-02	-.28	2
522	.7891000E+00	.7876239E+00	.1476056E-02	.38	2
523	.7868000E+00	.7856026E+00	.1197425E-02	.42	2
524	.7996000E+00	.7900042E+00	.9642110E-02	.13	2
525	.8356000E+00	.8335394E+00	.2060642E-02	.62	2
526	.8629000E+00	.8607582E+00	.2141815E-02	.59	2
527	.8688000E+00	.866199E+00	.2680121E-02	.59	2
528	.8660000E+00	.864281E+00	.1780622E-02	.05	2
529	.8710000E+00	.867988E+00	.3014390E-03	.12	2
530	.8622000E+00	.860825E+00	.1374748E-02	.53	2
531	.8788000E+00	.8782285E+00	.5734899E-03	.21	2
532	.8973000E+00	.894456E+00	.284589E-02	.29	2
533	.9187000E+00	.9211620E+00	-.2462040E-02	-.77	2
534	.9438000E+00	.9461042E+00	-.2304237E-02	-.67	2
535	.9733000E+00	.9730971E+00	.2029154E-03	.05	2
536	.9787000E+00	.9787284E+00	-.2844058E-04	-.01	2
537	.9430000E+00	.9440250E+00	-.1250283E-03	-.05	2
538	.9570000E+00	.9576274E+00	-.6273800E-03	-.17	2
539	.9743000E+00	.974134E+00	.1650533E-03	.06	2
540	.9930000E+00	.9942180E+00	-.1260203E-03	.11	2
541	1.0650000E+00	1.072612E+00	-.6612411E-03	-.27	2
542	1.1000000E+00	1.102096E+00	-.2096620E-02	-.64	2
543	1.1440000E+00	1.1488804E+00	-.488399E-02	-.63	2
544	1.1900000E+00	1.194273E+00	-.427349E-02	-.66	2
545	1.2577000E+00	1.259089E+00	-.13851E-02	-.61	2
546	1.3380000E+00	1.34634E+00	-.83367E-02	-.51	2
547	1.4250000E+00	1.4299406E+00	-.494127E-04	-.02	2
548	1.4550000E+00	1.462330E+00	-.7330716E-03	-.13	2
549	1.4890000E+00	1.492771E+00	-.372881E-03	.18	2
550	1.5180000E+00	1.518042E+00	-.425986E-03	.06	2

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
551	.325000E+00	.3259992E+00	-.5892156E-03	-.18	2
552	.351700E+00	.3532056E+00	-.1505560E-02	-.43	2
553	.357500E+00	.3589600E+00	-.1460037E-02	-.41	2
554	.256400E+00	.2566256E+00	-.2256091E-03	-.09	2
555	.273600E+00	.2737031E+00	-.1031141E-03	-.04	2
556	.294300E+00	.2931344E+00	.1165599E-02	.40	2
557	.317800E+00	.3164744E+00	.1325586E-02	.42	2
558	.322700E+00	.3215634E+00	.1136570E-02	.35	2
559	.327800E+00	.3267844E+00	.1015562E-02	.31	2
560	.332800E+00	.3321343E+00	.6656722E-03	.20	2
561	.337900E+00	.3376102E+00	.2898149E-03	.09	2
562	.343200E+00	.3432093E+00	-.8276624E-05	-.00	2
563	.267500E+00	.2699168E+00	-.2496795E-02	-.92	2
564	.287500E+00	.2893929E+00	-.1892928E-02	-.65	2
565	.311500E+00	.3110617E+00	.4383003E-03	.14	2
566	.316200E+00	.3159261E+00	.2739455E-03	.09	2
567	.321100E+00	.3209555E+00	.1444602E-03	.05	2
568	.326000E+00	.3261455E+00	-.1455122E-03	-.04	2
569	.315600E+00	.3117134E+00	.3886617E-02	1.25	1
570	.348500E+00	.3450775E+00	.1422493E-02	.41	1
571	.375000E+00	.3676201E+00	.7378875E-02	2.01	1
572	.385500E+00	.3900448E+00	-.4455076E-02	-1.85	1
573	.411600E+00	.4159050E+00	-.4306969E-02	-1.04	1
574	.437400E+00	.4435673E+00	-.6167266E-02	-1.39	1
575	.473400E+00	.4729827E+00	.4173426E-03	.09	1
576	.521100E+00	.5040832E+00	.1701679E-01	3.38	1
577	.547400E+00	.5367997E+00	.1060033E-01	1.97	1
578	.549600E+00	.5435310E+00	.6068982E-02	1.12	1
579	.550200E+00	.5503238E+00	-.1238736E-03	-.02	1
580	.550500E+00	.5571777E+00	-.6677743E-02	-1.20	1
581	.554300E+00	.5640921E+00	-.9792145E-02	-1.74	1
582	.558900E+00	.5710666E+00	-.1126661E-01	-1.97	1
583	.316500E+00	.3223854E+00	-.5865361E-02	-1.82	1
584	.350400E+00	.3570798E+00	-.6678838E-02	-1.87	1
585	.381800E+00	.3823184E+00	-.5183983E-03	-.14	1
586	.405000E+00	.4090925E+00	-.4082476E-02	-1.00	1
587	.435600E+00	.4378667E+00	-.2266653E-02	-.52	1
588	.470100E+00	.4686699E+00	.1430121E-02	.31	1
589	.510000E+00	.5014429E+00	.8557116E-02	1.71	1
590	.548200E+00	.5361072E+00	.1209282E-01	2.26	1
591	.549500E+00	.5432600E+00	.6240030E-02	1.15	1
592	.550000E+00	.5506846E+00	-.6861134E-03	-.09	1
593	.550700E+00	.5577805E+00	-.7090510E-02	-1.27	1
594	.555500E+00	.5651471E+00	-.9647064E-02	-1.71	1
595	.561100E+00	.5725937E+00	-.1148369E-01	-2.01	1
596	.320000E+00	.3274234E+00	-.7433275E-02	-2.27	1
597	.354500E+00	.3634350E+00	-.8934980E-02	-2.46	1
598	.388200E+00	.3897130E+00	-.1513008E-02	-.39	1
599	.417000E+00	.4176301E+00	-.6300875E-03	-.15	1
600	.448700E+00	.4476571E+00	.1042941E-02	.23	1

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
601	.480800E+00	.4798182E+00	.9817511E-03	.20	1
602	.521700E+00	.5140486E+00	.7651434E-02	1.49	1
603	.550000E+00	.5502640E+00	-.2640495E-03	-.05	1
604	.550900E+00	.5577379E+00	-.6837896E-02	-1.23	1
605	.556600E+00	.5652871E+00	-.8687123E-02	-1.54	1
606	.562900E+00	.5729111E+00	-.1001109E-01	-1.75	1
607	.334600E+00	.3379309E+00	-.3330920E-02	-.99	1
608	.370700E+00	.3761204E+00	-.5420570E-02	-1.44	1
609	.407800E+00	.4040928E+00	.3517162E-02	.87	1
610	.437800E+00	.4343128E+00	.3487153E-02	.80	1
611	.467200E+00	.4666797E+00	.5203350E-03	.11	1
612	.502600E+00	.5013933E+00	.1206667E-02	.24	1
613	.548800E+00	.5383748E+00	.1042524E-01	1.94	1
614	.548900E+00	.5460247E+00	.2865267E-02	.52	1
615	.550700E+00	.5537809E+00	-.3080784E-02	-.56	1
616	.554700E+00	.5616121E+00	-.6912145E-02	-1.23	1
617	.560800E+00	.5695281E+00	-.8728055E-02	-1.53	1
618	.345500E+00	.3529218E+00	-.7421817E-02	-2.10	1
619	.385700E+00	.3936301E+00	-.7930096E-02	-1.98	1
620	.425400E+00	.4238298E+00	.1570151E-02	.37	1
621	.455900E+00	.4532281E+00	.2271932E-02	.50	1
622	.492500E+00	.4917260E+00	.7740002E-03	.16	1
623	.534200E+00	.5296458E+00	.4554213E-02	.86	1
624	.543800E+00	.5375381E+00	.6261853E-02	1.16	1
625	.549400E+00	.5455312E+00	.3868825E-02	.71	1
626	.550100E+00	.5536239E+00	-.3523935E-02	-.64	1
627	.292500E+00	.2957529E+00	-.3252913E-02	-1.10	1
628	.319000E+00	.3237508E+00	-.4750782E-02	-1.47	1
629	.347500E+00	.3466647E+00	.835282E-03	.24	1
630	.364500E+00	.3645825E+00	-.9176675E-03	-.25	1
631	.388500E+00	.3912747E+00	-.2776652E-02	-.71	1
632	.414000E+00	.4185651E+00	-.4565077E-02	-1.09	1
633	.441500E+00	.4450196E+00	-.3519600E-02	-.79	1
634	.472100E+00	.4744096E+00	-.2309571E-02	-.49	1
635	.506800E+00	.5053788E+00	.1221406E-02	.24	1
636	.515900E+00	.5117558E+00	.4144279E-02	.81	1
637	.524000E+00	.5181929E+00	.5807119E-02	1.12	1
638	.531500E+00	.5246893E+00	.6810870E-02	1.30	1
639	.538500E+00	.5312445E+00	.7253785E-02	1.37	1
640	.300500E+00	.3046344E+00	-.4134770E-02	-1.36	1
641	.321000E+00	.3258645E+00	-.4864492E-02	-1.45	1
642	.360100E+00	.3592593E+00	.8406809E-03	.23	1
643	.396700E+00	.3943458E+00	.2354423E-02	.61	1
644	.411200E+00	.4114682E+00	-.2682159E-03	-.07	1
645	.435400E+00	.4406154E+00	-.5219408E-02	-1.18	1
646	.466500E+00	.4717087E+00	-.5209706E-02	-1.10	1
647	.508600E+00	.5046634E+00	.3936579E-02	.78	1
648	.518200E+00	.5114698E+00	.6730220E-02	1.32	1
649	.525900E+00	.5183465E+00	.7553510E-02	1.46	1
650	.527900E+00	.5252929E+00	.2607079E-02	.43	1

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
651	5402000E+00	5323085E+00	7891542E-02	1.48	1
652	3082000E+00	3088411E+00	-6411234E-03	-.21	1
653	3293000E+00	3413580E+00	-2057874E-02	-.60	1
654	3698000E+00	3657923E+00	4107732E-02	1.12	1
655	3958000E+00	3920215E+00	3878471E-02	-.99	1
656	4176000E+00	4203870E+00	-2786961E-02	-.67	1
657	4460000E+00	4509021E+00	-4902118E-02	-1.09	1
658	4797000E+00	4834517E+00	-3753728E-02	-.78	1
659	5273000E+00	5179586E+00	9341374E-02	1.80	1
660	5343000E+00	5250860E+00	9213954E-02	1.75	1
661	3172000E+00	3175167E+00	-3167340E-03	-.10	1
662	3511000E+00	3522216E+00	-1121630E-02	-.32	1
663	3832000E+00	3785402E+00	4659837E-02	1.23	1
664	4074000E+00	4068824E+00	5176460E-03	-.13	1
665	4343000E+00	4375976E+00	-3297633E-02	-.75	1
666	4667000E+00	4706553E+00	-3955267E-02	-.84	1
667	5107000E+00	5059580E+00	4742015E-02	-.94	1
668	5166000E+00	5132788E+00	3321404E-02	1.23	1
669	5286000E+00	5206838E+00	7916053E-02	1.52	1
670	3270000E+00	3258422E+00	1158320E-02	-.86	1
671	3621000E+00	3668667E+00	-4766727E-02	-1.30	1
672	3975000E+00	3954227E+00	2077255E-02	-.53	1
673	4247000E+00	4263520E+00	-1652893E-02	-.39	1
674	4562000E+00	4599795E+00	-3779539E-02	-.82	1
675	4940000E+00	4962433E+00	-2243293E-02	-.45	1
676	5029000E+00	5038021E+00	-9021059E-03	-.18	1
677	2648000E+00	2702749E+00	-5478202E-02	-2.03	1
678	2898000E+00	2922058E+00	-2405888E-02	-.82	1
679	3133000E+00	3099423E+00	3357738E-02	1.09	1
680	3333000E+00	3294524E+00	3847610E-02	1.17	1
681	3508000E+00	3508413E+00	-4133619E-04	-.01	1
682	3722000E+00	3740291E+00	-1829118E-02	-.49	1
683	3984000E+00	3989157E+00	-515674E-02	-.63	1
684	4242000E+00	4254071E+00	-1207088E-02	-.28	1
685	4510000E+00	4534199E+00	-2419899E-02	-.53	1
686	4574000E+00	4551844E+00	2219800E-02	-.39	1
687	2750000E+00	2764860E+00	-1486028E-02	-.54	1
688	3019000E+00	3016598E+00	2401513E-03	-.08	1
689	3258000E+00	3218761E+00	4023885E-02	1.25	1
690	3448000E+00	3440691E+00	7309294E-03	-.24	1
691	3667000E+00	3683722E+00	-1672150E-02	-.45	1
692	3915000E+00	3947009E+00	-3200860E-02	-.81	1
693	4201000E+00	4229450E+00	-2845030E-02	-.67	1
694	4525000E+00	4530002E+00	-5001871E-03	-.11	1
695	4589000E+00	4592201E+00	-3201264E-03	-.07	1
696	2713000E+00	2755895E+00	-4286280E-02	-.46	1
697	3054000E+00	3080675E+00	-2647778E-02	-.21	1
698	3312000E+00	3273032E+00	3896789E-02	1.19	1
699	3517000E+00	3506352E+00	1060821E-02	-.30	1
700	3749000E+00	3761950E+00	-1295042E-02	-.34	1

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
701	4014000E+00	4038817E+00	-2481717E-02	-.61	1
702	4317000E+00	4325832E+00	-883200E-02	-.20	1
703	4420000E+00	4397554E+00	225394E-02	-.40	1
704	4448000E+00	4460029E+00	-120232E-02	-.27	1
705	4517000E+00	4523250E+00	-6249753E-03	-.14	1
706	2865000E+00	2842870E+00	2219995E-03	-.07	1
707	3150000E+00	3149260E+00	7400523E-04	-.02	1
708	3425000E+00	3380660E+00	4434032E-02	1.31	1
709	3654000E+00	3635149E+00	1885144E-02	-.52	1
710	3914000E+00	3914106E+00	-1057574E-04	-.00	1
711	4209000E+00	4216497E+00	-7497280E-03	-.18	1
712	4274000E+00	4278673E+00	-4672624E-03	-.10	1
713	4399000E+00	4343723E+00	555278E-02	-.11	1
714	4405000E+00	4408638E+00	-3637792E-03	-.08	1
715	2987000E+00	2962936E+00	2406375E-02	-.81	1
716	3299000E+00	3272512E+00	2648752E-02	-.81	1
717	3571000E+00	3526287E+00	4471295E-02	1.27	1
718	3831000E+00	3806457E+00	2434349E-02	-.64	1
719	4118000E+00	4114726E+00	3273826E-03	-.08	1
720	4178000E+00	4179556E+00	-1555999E-03	-.04	1
721	4240000E+00	4245428E+00	-5428603E-03	-.13	1
722	4307000E+00	4312332E+00	-5331605E-03	-.12	1
723	2515000E+00	2533875E+00	-1887525E-02	-.74	1
724	2724000E+00	2704584E+00	1941597E-02	-.72	1
725	2987000E+00	2856838E+00	1064256E-02	-.35	1
726	3021000E+00	3028537E+00	-7536877E-03	-.28	1
727	3212000E+00	3221678E+00	-9677770E-03	-.30	1
728	3417000E+00	3431952E+00	-1495190E-02	-.44	1
729	3645000E+00	3659080E+00	-1408000E-02	-.38	1
730	3915000E+00	3901977E+00	1302230E-02	-.33	1
731	3985000E+00	3952265E+00	3282502E-02	-.22	1
732	4015000E+00	4003340E+00	1165875E-02	-.29	1
733	4098000E+00	4064895E+00	333105E-02	-.25	1
734	4125000E+00	4107028E+00	1797377E-02	-.44	1
735	4184000E+00	4159725E+00	2427534E-02	-.59	1
736	2572000E+00	2581205E+00	-9205349E-03	-.36	1
737	2799000E+00	2784233E+00	14676731E-02	-.53	1
738	2977000E+00	2961395E+00	1560479E-02	-.53	1
739	3162000E+00	3160823E+00	1177154E-03	-.07	1
740	3372000E+00	3382105E+00	-1010497E-02	-.30	1
741	3606000E+00	3623788E+00	-1778838E-02	-.49	1
742	3880000E+00	3884493E+00	-4492621E-03	-.12	1
743	3940000E+00	3928808E+00	112113E-02	-.03	1
744	4002000E+00	3983877E+00	181083E-02	-.20	1
745	4066000E+00	4048942E+00	1765792E-02	-.41	1
746	4131000E+00	4105945E+00	2505544E-02	-.61	1
747	4604000E+00	4609345E+00	-5384759E-03	-.21	1
748	2838000E+00	2825283E+00	1271645E-02	-.45	1
749	3038000E+00	3012841E+00	2515947E-02	-.77	1
750	3232000E+00	3223698E+00	8301802E-03	-.29	1

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TABLE OF RESIDUALS (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
751	.3451000E+00	.3457500E+00	-.6508250E-03	-.18	1
752	.3704000E+00	.3712771E+00	-.8771317E-03	-.24	1
753	.3898000E+00	.3888049E+00	.9951217E-03	.25	1
754	.4062000E+00	.4045293E+00	.1660713E-02	.41	1
755	.2669000E+00	.2678555E+00	-.9554510E-03	-.36	1
756	.2922000E+00	.2916234E+00	.5666454E-03	.19	1
757	.3157000E+00	.3122733E+00	.3426688E-02	1.10	1
758	.3369000E+00	.3354720E+00	.1427991E-02	.43	1
759	.3613000E+00	.3611928E+00	.1071376E-03	.03	1
760	.3897000E+00	.3892716E+00	.4283546E-03	.11	1
761	.3558000E+00	.3551561E+00	.6439020E-03	.16	1
762	.2765000E+00	.2795542E+00	-.3054246E-02	-1.09	1
763	.3034000E+00	.3058508E+00	-.2250781E-02	-.74	1
764	.3299000E+00	.3285282E+00	.1271777E-02	.42	1
765	.3538000E+00	.3543150E+00	-.5149773E-03	-.15	1
766	.3595000E+00	.3598198E+00	-.3197625E-03	-.09	1
767	.3647000E+00	.3654270E+00	-.7369711E-03	-.20	1
768	.3701000E+00	.3711650E+00	-.1065000E-02	-.29	1
769	.3757000E+00	.3770022E+00	-.1302240E-02	-.35	1
770	.3814000E+00	.3829471E+00	-.1547097E-02	-.40	1

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MAXIMUM RESIDUAL (WITHIN)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION	GROUP NO.
576	.5211000E+00	.5040832E+00	.1701479E-01	3.38	1

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
1	.3265000E+00	.3115803E+00	.1481571E-01	4.79
2	.3438000E+00	.3246296E+00	.8970352E-02	2.68
3	.3605000E+00	.3572679E+00	.3232067E-02	.90
4	.3802000E+00	.3801138E+00	.8619209E-04	.02
5	.4021000E+00	.4064744E+00	-.4274432E-02	-1.08
6	.4315000E+00	.4251379E+00	.637855E-02	.84
7	.4661000E+00	.4658642E+00	.2357892E-02	.02
8	.5010000E+00	.4988272E+00	.2172758E-02	.44
9	.5415000E+00	.5336168E+00	.7883199E-02	1.48
10	.5818000E+00	.5407972E+00	.8302759E-02	1.54
11	.5504000E+00	.5480502E+00	.234881E-02	.43
12	.5501000E+00	.5553704E+00	-.5274889E-02	-.95
13	.5538000E+00	.5627708E+00	-.6170762E-02	-1.63
14	.5288000E+00	.5203332E+00	.8466757E-02	2.96
15	.5458000E+00	.5494603E+00	-.3660280E-02	-1.05
16	.5704000E+00	.5734996E+00	-.3099570E-02	-.82
17	.5989000E+00	.6001141E+00	-.1214110E-02	-.30
18	.6286000E+00	.6293807E+00	-.7892792E-03	-.05
19	.6608000E+00	.6611965E+00	-.3965211E-03	-.09
20	.6932000E+00	.6953816E+00	-.2183600E-03	-.04
21	.5400000E+00	.5318892E+00	.819868E-01	2.28
22	.5491000E+00	.5387531E+00	.9746882E-03	1.81
23	.5499000E+00	.5468809E+00	.2918102E-02	.53
24	.5499000E+00	.5546918E+00	-.4791795E-02	-.86
25	.5549000E+00	.5624850E+00	-.7584875E-02	-1.35
26	.5320000E+00	.5257624E+00	.6237648E-02	1.91
27	.5515000E+00	.5533257E+00	-.1825674E-02	-.52
28	.5814000E+00	.5812588E+00	.1411544E-03	.04
29	.6114000E+00	.6090162E+00	.238811E-02	.58
30	.6405000E+00	.6395450E+00	.1055042E-02	.24
31	.6730000E+00	.6722881E+00	.7019188E-03	.15
32	.5128000E+00	.5083489E+00	.4451067E-02	.88
33	.5489000E+00	.5483263E+00	.5673686E-02	.65
34	.5510000E+00	.5541908E+00	-.3190846E-02	-.58
35	.5561000E+00	.5621429E+00	-.6042877E-02	-1.07
36	.5453000E+00	.5368458E+00	.8454194E-02	2.51
37	.5728000E+00	.5694550E+00	.3345022E-02	.91
38	.6011000E+00	.5964171E+00	.4682882E-02	1.18
39	.6282000E+00	.6262844E+00	.1915621E-02	.45
40	.6568000E+00	.6581488E+00	-.1348786E-02	-.51
41	.6841000E+00	.6948589E+00	-.1588244E-03	-.15
42	.5441000E+00	.5332452E+00	.1085484E-01	2.04
43	.5490000E+00	.5412296E+00	.7770358E-02	1.44
44	.5503000E+00	.5493138E+00	.9862113E-03	.18
45	.5618000E+00	.5524002E+00	.9399819E-02	2.67
46	.5895000E+00	.5876612E+00	.1838837E-02	.47
47	.6200000E+00	.6190978E+00	.9022477E-03	.22
48	.6440000E+00	.6437276E+00	.2724296E-03	.06
49	.6850000E+00	.6847345E+00	.2655433E-03	.05
50	.5252000E+00	.5236379E+00	.1562059E-02	.30

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
51	.5353000E+00	.5317780E+00	.3521854E-02	.66
52	.2986000E+00	.2928315E+00	.5768512E-02	1.87
53	.3170000E+00	.3158508E+00	.1149248E-02	.36
54	.3345000E+00	.3355070E+00	-.1007038E-02	-.30
55	.3545000E+00	.3555713E+00	-.1071294E-02	-.30
56	.3818000E+00	.3818115E+00	-.1145891E-04	-.00
57	.4818000E+00	.48821175E+00	-.6423433E-03	-.18
58	.4375000E+00	.4379268E+00	-.4260077E-03	-.10
59	.4667000E+00	.4673471E+00	-.6471156E-03	-.14
60	.4960000E+00	.4996383E+00	-.3639332E-02	-.73
61	.5029000E+00	.5062073E+00	-.3407324E-02	-.67
62	.5100000E+00	.5130435E+00	-.3043542E-02	-.59
63	.5183000E+00	.5198473E+00	-.1547327E-02	-.30
64	.5038000E+00	.5026538E+00	.1162102E-03	.31
65	.5272000E+00	.5289143E+00	-.1714253E-02	-.52
66	.5527000E+00	.5510549E+00	.1645062E-02	.47
67	.5786000E+00	.5757274E+00	.2878551E-02	.55
68	.6018000E+00	.6029606E+00	-.1160618E-02	-.28
69	.6279000E+00	.6326090E+00	-.4708887E-02	-1.09
70	.6579000E+00	.6645211E+00	-.6621088E-02	-1.43
71	.6978000E+00	.6985621E+00	-.7420561E-03	-.15
72	.5044000E+00	.5056151E+00	-.1215137E-02	-.24
73	.5117000E+00	.5127478E+00	-.1047783E-02	-.20
74	.5128000E+00	.5072220E+00	.5578026E-02	1.82
75	.5360000E+00	.5347727E+00	.1227332E-02	.27
76	.5615000E+00	.5579533E+00	.3546714E-02	.99
77	.5944000E+00	.5937696E+00	.6315987E-03	.16
78	.6101000E+00	.6122558E+00	-.2152928E-02	-.32
79	.6384000E+00	.6432583E+00	-.4858282E-02	-1.10
80	.6719000E+00	.6768275E+00	-.4727458E-02	-.89
81	.6802000E+00	.6835719E+00	-.3371942E-02	-.70
82	.6891000E+00	.6906042E+00	-.1504235E-02	-.31
83	.6979000E+00	.6977232E+00	.1786609E-03	.04
84	.5061000E+00	.5049283E+00	.1171718E-02	.23
85	.5132000E+00	.5122181E+00	.9918802E-03	.19
86	.5260000E+00	.5197137E+00	.6284270E-02	1.97
87	.5479000E+00	.5464243E+00	.1475087E-02	.28
88	.5727000E+00	.5712888E+00	.1410176E-02	.38
89	.5970000E+00	.5962151E+00	.7846418E-03	.12
90	.6267000E+00	.6300360E+00	-.3360223E-02	-.78
91	.6596000E+00	.6635887E+00	-.3988688E-02	-.86
92	.6870000E+00	.6706117E+00	.1611675E-02	.77
93	.6741000E+00	.6777357E+00	-.3635732E-02	-.76
94	.6822000E+00	.6849596E+00	-.2758605E-02	-.57
95	.6912000E+00	.6922821E+00	-.1082074E-02	-.22
96	.5012000E+00	.4997020E+00	.1498045E-02	.30
97	.5384000E+00	.5293717E+00	.9062893E-02	2.74
98	.5635000E+00	.5616241E+00	.1865778E-02	.24
99	.5900000E+00	.5887284E+00	.1270618E-02	.33
100	.6170000E+00	.6192340E+00	-.2132890E-02	-.31

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
101	.4491000E+00	.4529553E+00	-.3855332E-02	-.85
102	.4558000E+00	.4600690E+00	-.4260490E-02	-.93
103	.4634000E+00	.4673021E+00	-.3902095E-02	-.84
104	.4712000E+00	.4748528E+00	-.3652872E-02	-.73
105	.4791000E+00	.4821188E+00	-.3019812E-02	-.63
106	.4871000E+00	.4894702E+00	-.2371501E-02	-.49
107	.4951000E+00	.4961084E+00	-.1016488E-02	-.25
108	.5030000E+00	.5015112E+00	.1498817E-02	.109
109	.5110000E+00	.5205480E+00	.2552001E-02	.80
110	.5180000E+00	.5417655E+00	.1654802E-02	-.05
111	.5260000E+00	.5650764E+00	.1576350E-02	-.43
112	.5340000E+00	.5903218E+00	.1421796E-02	-.36
113	.5410000E+00	.6173708E+00	.1229176E-02	-.29
114	.5490000E+00	.6422871E+00	.8128604E-03	-.19
115	.5560000E+00	.6686704E+00	.7295585E-03	-.17
116	.5640000E+00	.6944199E+00	.7801479E-03	-.18
117	.5710000E+00	.7202348E+00	.8652417E-03	-.20
118	.5790000E+00	.7461144E+00	.1185590E-02	.27
119	.5860000E+00	.7744377E+00	.3782325E-02	1.37
120	.5940000E+00	.8055171E+00	.4482926E-02	1.52
121	.6010000E+00	.8345043E+00	.2295696E-02	.73
122	.6090000E+00	.861264E+00	.1736063E-02	.05
123	.6160000E+00	.8902599E+00	.1859861E-02	-.52
124	.6240000E+00	.9167131E+00	.2813108E-02	-.75
125	.6310000E+00	.9452173E+00	.1517312E-02	-.37
126	.6390000E+00	.972834E+00	.7933859E-03	-.18
127	.6460000E+00	.1002288E+00	.2287519E-03	-.05
128	.6540000E+00	.1024524E+00	.347574E-03	-.08
129	.6610000E+00	.1056535E+00	.1346518E-02	.31
130	.6690000E+00	.1088310E+00	.2869013E-02	.64
131	.6760000E+00	.1209889E+00	.3711094E-02	1.32
132	.6840000E+00	.1302711E+00	.4928904E-02	1.64
133	.6910000E+00	.1320293E+00	.2601741E-02	.81
134	.6990000E+00	.1330632E+00	.1368474E-03	.04
135	.7060000E+00	.1368448E+00	.1448778E-02	-.39
136	.7140000E+00	.1398259E+00	.1959020E-02	-.48
137	.7210000E+00	.1423133E+00	.4192901E-03	-.10
138	.7290000E+00	.1435880E+00	.1120250E-03	.03
139	.7360000E+00	.1438397E+00	.6603443E-03	.15
140	.7440000E+00	.1453784E+00	.4821566E-02	1.72
141	.7510000E+00	.1497400E+00	.2860031E-02	.92
142	.7590000E+00	.1516500E+00	.2849533E-02	.86
143	.7660000E+00	.1565249E+00	.9751411E-03	.27
144	.7740000E+00	.1642461E+00	.2538782E-03	.07
145	.7810000E+00	.1646037E+00	.6863249E-03	.17
146	.7890000E+00	.1697744E+00	.8255836E-03	.15
147	.7960000E+00	.174414E+00	.858355E-03	.20
148	.8040000E+00	.1858427E+00	.6057287E-02	2.05
149	.8110000E+00	.1928241E+00	.2375936E-02	.74
150	.8190000E+00	.1967659E+00	.2834132E-02	.82

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
151	.3760000E+00	.3742201E+00	.1779945E-02	.48
152	.4065000E+00	.4048417E+00	.1658304E-02	.41
153	.4128000E+00	.4113248E+00	.1475185E-02	.31
154	.4520000E+00	.4507266E+00	.1273443E-02	.51
155	.2647000E+00	.2634521E+00	.1246883E-02	.47
156	.2782000E+00	.2776608E+00	.5391446E-03	.19
157	.2938000E+00	.2946588E+00	.7587617E-03	-.26
158	.3116000E+00	.3140928E+00	.2492788E-02	-.79
159	.3340000E+00	.3357015E+00	.1701524E-02	-.51
160	.3577000E+00	.3592899E+00	.1589916E-02	-.44
161	.3858000E+00	.3847065E+00	.1093521E-02	.28
162	.3908000E+00	.3899880E+00	.8019532E-03	.21
163	.3962000E+00	.3953569E+00	.8430530E-03	.21
164	.4018000E+00	.4007226E+00	.1117648E-02	.28
165	.2585000E+00	.2584120E+00	.2698050E-02	.81
166	.2734000E+00	.2723787E+00	.1020272E-02	.37
167	.2897000E+00	.2890718E+00	.6281562E-03	.22
168	.3083000E+00	.3087550E+00	.4550243E-03	.15
169	.3298000E+00	.3311050E+00	.1305036E-02	-.39
170	.3529000E+00	.3558561E+00	.1956149E-02	-.55
171	.3822000E+00	.3828032E+00	.6032008E-03	-.16
172	.3884000E+00	.3884414E+00	.4140207E-04	-.01
173	.3948000E+00	.3941596E+00	.6403610E-03	.16
174	.4128000E+00	.4139846E+00	.2205370E-02	.88
175	.2783000E+00	.2788528E+00	.1447561E-02	.52
176	.2656000E+00	.2645847E+00	.1015311E-02	.34
177	.3160000E+00	.3154107E+00	.5893278E-03	.19
178	.3332000E+00	.33390128E+00	.8128421E-03	-.24
179	.3629000E+00	.3651210E+00	.1220951E-02	-.33
180	.3886000E+00	.3706239E+00	.1023875E-02	-.28
181	.3754000E+00	.3782170E+00	.8170173E-03	-.22
182	.3815000E+00	.3818990E+00	.3889891E-03	-.10
183	.3878000E+00	.3876689E+00	.1315271E-03	.03
184	.3916000E+00	.3879988E+00	.2001532E-02	.75
185	.2887000E+00	.2865484E+00	.2151619E-02	.75
186	.3083000E+00	.3061633E+00	.2136653E-02	.70
187	.3304000E+00	.3290982E+00	.1300751E-02	.40
188	.3550000E+00	.3550271E+00	.3705634E-04	-.01
189	.3605000E+00	.3605587E+00	.5869163E-04	-.02
190	.3661000E+00	.3661869E+00	.8887571E-04	-.02
191	.3719000E+00	.3719197E+00	.1874037E-04	-.01
192	.3778000E+00	.3777555E+00	.1444961E-03	.04
193	.2821000E+00	.2815412E+00	.5584501E-03	.20
194	.3033000E+00	.3011207E+00	.2179277E-02	.72
195	.3238000E+00	.3228741E+00	.8925867E-03	.20
196	.3477000E+00	.3484827E+00	.7828801E-03	.22
197	.3528000E+00	.3539955E+00	.1095504E-02	-.31
198	.3584000E+00	.3596382E+00	.1238287E-02	-.34
199	.3641000E+00	.3654084E+00	.1308420E-02	-.36
200	.3057000E+00	.3054602E+00	.2387693E-03	.08

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
201	.3284000E+00	.3257072E+00	.2692846E-02	.83
202	.3476000E+00	.3440547E+00	.3543301E-02	.45
203	.3715000E+00	.3725892E+00	-.1069179E-02	-.29
204	.3930000E+00	.3967088E+00	-.3708766E-02	-.93
205	.4240000E+00	.4271334E+00	-.3133381E-02	-.73
206	.4592000E+00	.4586574E+00	.5425640E-03	.12
207	.4919000E+00	.4933128E+00	-.1412839E-02	-.25
208	.5292000E+00	.5302091E+00	-.1009106E-02	-.19
209	.5419000E+00	.5378458E+00	.4054232E-02	.75
210	.5488000E+00	.5455440E+00	.3233866E-02	.59
211	.5488000E+00	.5533680E+00	-.3569021E-02	-.64
212	.3094000E+00	.3180095E+00	-.8609478E-02	-2.71
213	.3344000E+00	.3414976E+00	-.7097599E-02	-2.09
214	.3620000E+00	.3643315E+00	-.2331542E-02	-.64
215	.3920000E+00	.3907923E+00	.1207720E-02	.31
216	.4220000E+00	.4205849E+00	.1415132E-02	.34
217	.4503000E+00	.4534128E+00	-.3112829E-02	-.69
218	.4854000E+00	.4880347E+00	-.2634675E-02	-.74
219	.5225000E+00	.5272547E+00	-.3245276E-02	-.98
220	.5439000E+00	.5351958E+00	.8704171E-02	1.63
221	.5494000E+00	.5432332E+00	.6166821E-02	1.14
222	.5502000E+00	.5513657E+00	-.1165660E-02	-.21
223	.3174000E+00	.3238065E+00	-.6406452E-02	-1.98
224	.3455000E+00	.3485848E+00	-.3084804E-02	-.88
225	.3743000E+00	.3724587E+00	.1841320E-02	.49
226	.4040000E+00	.4000622E+00	.3937778E-02	.98
227	.4350000E+00	.4342317E+00	.7683300E-03	.18
228	.4650000E+00	.4687070E+00	-.3701883E-02	-.78
229	.5024000E+00	.5023698E+00	.3016444E-03	.05
230	.5495000E+00	.5421366E+00	.7380422E-02	1.36
231	.5488000E+00	.5504014E+00	-.6014202E-03	-.11
232	.3364000E+00	.3354824E+00	.9175635E-03	.27
233	.3647000E+00	.3624527E+00	.2247307E-02	.62
234	.3935000E+00	.3882095E+00	.5290516E-02	1.36
235	.4180000E+00	.4153021E+00	.2697918E-02	.65
236	.4480000E+00	.4475614E+00	.4385848E-03	.10
237	.4892000E+00	.4880356E+00	.1164413E-02	.24
238	.4970000E+00	.4957604E+00	.1238633E-02	.59
239	.5088000E+00	.5002606E+00	.8572121E-02	.63
240	.5156000E+00	.5115731E+00	.4028914E-02	.79
241	.5257000E+00	.5186576E+00	.6042434E-02	1.16
242	.5361000E+00	.5278586E+00	.8241401E-02	1.56
243	.3532000E+00	.3515973E+00	.1602707E-02	.46
244	.3807000E+00	.3808874E+00	-.873661E-03	-.05
245	.4070000E+00	.4088759E+00	-.1875884E-02	-.46
246	.4382000E+00	.4411687E+00	-.2966719E-02	-.67
247	.4759000E+00	.4774455E+00	-.1546481E-02	-.32
248	.4854000E+00	.4851530E+00	.2470362E-03	.05
249	.4939000E+00	.4929966E+00	.9004770E-03	.19
250	.5022000E+00	.5009870E+00	.1213025E-02	.24

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
251	.5102000E+00	.5091128E+00	.1087121E-02	.23
252	.5189000E+00	.5173751E+00	.1524874E-02	.29
253	.2948000E+00	.2886095E+00	.6189502E-02	1.66
254	.3048000E+00	.3076066E+00	-.2808616E-02	-.91
255	.3275000E+00	.3287116E+00	-.1214831E-02	-.24
256	.3474000E+00	.3475700E+00	-.1700144E-03	-.05
257	.3734000E+00	.3720009E+00	.1399059E-02	.36
258	.3985000E+00	.3990157E+00	-.5154597E-03	-.13
259	.4281000E+00	.4283979E+00	-.2297892E-02	-.54
260	.4578000E+00	.4615215E+00	-.3631547E-02	-.79
261	.4896000E+00	.4936095E+00	-.4008470E-02	-.81
262	.4965000E+00	.5005710E+00	-.4071047E-02	-.81
263	.2948000E+00	.3003916E+00	-.5591619E-02	-1.86
264	.3197000E+00	.3216319E+00	-.1931930E-02	-.60
265	.3445000E+00	.3425088E+00	.1993210E-02	.59
266	.3664000E+00	.3667630E+00	-.3630003E-03	-.10
267	.3913000E+00	.3941099E+00	-.2809912E-02	-.71
268	.4213000E+00	.4242670E+00	-.2967009E-02	-.70
269	.4521000E+00	.4570080E+00	-.4908001E-02	-1.07
270	.4912000E+00	.4921503E+00	-.950345E-03	-.19
271	.4981000E+00	.4984532E+00	-.353289E-02	-.27
272	.3015000E+00	.3053277E+00	-.3827666E-02	-1.25
273	.3289000E+00	.3278992E+00	.9502092E-03	.29
274	.3505000E+00	.3487506E+00	.1769985E-02	.21
275	.3738000E+00	.3751790E+00	-.1372016E-02	-.42
276	.4019000E+00	.4027711E+00	-.871088E-03	-.46
277	.4310000E+00	.4352852E+00	-.4285177E-02	-.98
278	.4652000E+00	.4694822E+00	-.4282234E-02	-.91
279	.4732000E+00	.4766264E+00	-.3426415E-02	-.72
280	.4816000E+00	.4838690E+00	-.2268662E-02	-.47
281	.4901000E+00	.4912086E+00	-.1108600E-02	-.23
282	.3116000E+00	.3151819E+00	-.3581917E-02	-1.14
283	.3365000E+00	.3399044E+00	-.3404364E-02	-.90
284	.3632000E+00	.3637021E+00	-.506723E-03	-.11
285	.3908000E+00	.3912110E+00	-.4110049E-03	-.08
286	.4193000E+00	.4221457E+00	-.2845713E-02	-.63
287	.4522000E+00	.4562071E+00	-.4007105E-02	-.88
288	.4597000E+00	.4632721E+00	-.3572044E-02	-.78
289	.4878000E+00	.4706504E+00	.17030382E-02	.65
290	.4760000E+00	.4780404E+00	-.2040404E-02	-.43
291	.3263000E+00	.3286304E+00	-.2330413E-02	-.71
292	.3532000E+00	.3556727E+00	-.2372677E-02	-.67
293	.3810000E+00	.3817021E+00	-.7021112E-03	-.18
294	.4100000E+00	.4117904E+00	-.1790419E-02	-.43
295	.4418000E+00	.444231E+00	-.243594E-02	-.66
296	.4490000E+00	.4521122E+00	-.311217E-02	-.69
297	.4545000E+00	.4601334E+00	-.563387E-02	-.79
298	.2613000E+00	.2643714E+00	-.3071354E-02	-1.16
299	.2789000E+00	.2776786E+00	.1212974E-03	.12
300	.2955000E+00	.2929393E+00	.2560718E-02	.87

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
301	-3128000E+00	-3112994E+00	-1500630E-02	.48
302	-3331000E+00	-3323498E+00	-7541856E-03	.23
303	-3547000E+00	-3557831E+00	-1083058E-02	-.20
304	-3806000E+00	-3813830E+00	-7929944E-03	-.21
305	-4117000E+00	-4090072E+00	-2692799E-02	.66
306	-4171000E+00	-4147582E+00	-2341776E-02	.56
307	-4230000E+00	-4205830E+00	-2417001E-02	.57
308	-4282000E+00	-4264806E+00	-1719388E-02	.64
309	-4356000E+00	-4328502E+00	-2748200E-02	.73
310	-2711000E+00	-2724887E+00	-139863E-02	-.51
311	-2892000E+00	-2880471E+00	-1528020E-02	.05
312	-3076000E+00	-3067822E+00	-8077825E-03	.26
313	-3278000E+00	-3278376E+00	-3757807E-04	-.01
314	-3501000E+00	-3518000E+00	-1700009E-02	-.48
315	-3763000E+00	-3783786E+00	-2078631E-02	-.55
316	-4072000E+00	-4073483E+00	-1483256E-03	-.04
317	-4138000E+00	-4134123E+00	-4876677E-03	.12
318	-4212000E+00	-4195634E+00	-1636607E-02	.38
319	-4284000E+00	-4258003E+00	-2599880E-02	.61
320	-2745000E+00	-2763303E+00	-1830348E-02	-.68
321	-2956000E+00	-2941890E+00	-1430875E-02	.48
322	-3141000E+00	-3129540E+00	-1145864E-02	.37
323	-3351000E+00	-3351422E+00	-4220128E-04	-.01
324	-3590000E+00	-3603568E+00	-1356789E-02	-.38
325	-3874000E+00	-3882934E+00	-8934064E-03	-.23
326	-3936000E+00	-3941858E+00	-5858080E-03	-.15
327	-4000000E+00	-4001780E+00	-1758799E-03	-.04
328	-4086000E+00	-4062824E+00	-2378882E-03	.08
329	-4135000E+00	-4124826E+00	-1056411E-02	.26
330	-4205000E+00	-4187182E+00	-1781834E-02	.42
331	-2825000E+00	-2841988E+00	-1689848E-02	-.60
332	-3044000E+00	-3042304E+00	-1685659E-03	.06
333	-3265000E+00	-3248984E+00	-1601644E-02	.49
334	-3489000E+00	-3481964E+00	-7035600E-03	.20
335	-3773000E+00	-3767467E+00	-5533344E-03	.15
336	-3833000E+00	-3826176E+00	-6824309E-03	.18
337	-3895000E+00	-3888034E+00	-695751E-02	.23
338	-3959000E+00	-3947022E+00	-1197828E-02	.30
339	-4029000E+00	-4008118E+00	-1888152E-02	.42
340	-4055000E+00	-4072306E+00	-2289416E-02	.56
341	-2929000E+00	-2933246E+00	-2424608E-02	-.82
342	-3172000E+00	-3176750E+00	-4750067E-03	.15
343	-3424000E+00	-3405747E+00	-1825341E-02	.54
344	-3691000E+00	-3674521E+00	-1647882E-02	.45
345	-3750000E+00	-3732887E+00	-1731284E-02	.46
346	-3811000E+00	-3792249E+00	-1875094E-02	.49
347	-3873000E+00	-3853178E+00	-1982215E-02	.51
348	-3970000E+00	-3915444E+00	-2155403E-02	.55
349	-2456000E+00	-2477510E+00	-2150951E-02	-.87
350	-2555000E+00	-2561047E+00	-6046723E-03	-.24

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
351	-2705000E+00	-2692897E+00	-1212251E-02	.45
352	-2863000E+00	-2860326E+00	-2664017E-03	.09
353	-3042000E+00	-3057047E+00	-1504720E-02	-.48
354	-3253000E+00	-3279168E+00	-2616832E-02	-.80
355	-3504000E+00	-3524070E+00	-1997016E-02	-.51
356	-3787000E+00	-3789803E+00	-279885E-02	.19
357	-3849000E+00	-3845310E+00	-3689723E-03	.10
358	-3905000E+00	-3901578E+00	-3421902E-03	.09
359	-2521000E+00	-2543862E+00	-2296158E-02	-.90
360	-2651000E+00	-2659911E+00	-8910774E-03	-.34
361	-2819000E+00	-2816576E+00	-2424475E-03	.09
362	-3009000E+00	-3010897E+00	-1896748E-03	-.06
363	-3228000E+00	-3236768E+00	-8767820E-03	-.27
364	-3472000E+00	-3490313E+00	-1831272E-02	-.52
365	-3741000E+00	-3768802E+00	-27802154E-03	-.21
366	-3824000E+00	-3877045E+00	-5303867E-03	.09
367	-2557000E+00	-2579487E+00	-2248701E-02	-.87
368	-2701000E+00	-2708319E+00	-7318511E-03	-.27
369	-2881000E+00	-2875383E+00	-5617402E-03	.20
370	-3087000E+00	-3081132E+00	-5868141E-03	.19
371	-3323000E+00	-3319525E+00	-3475485E-03	.10
372	-3576000E+00	-3586639E+00	-1062936E-02	-.30
373	-3634000E+00	-3643250E+00	-9248800E-03	-.25
374	-3694000E+00	-3700877E+00	-1687260E-03	.19
375	-3758000E+00	-3759504E+00	-1503848E-03	.09
376	-2634000E+00	-2680631E+00	-463072E-02	.18
377	-2807800E+00	-2811201E+00	-4201268E-03	.15
378	-3012000E+00	-3057095E+00	-4480550E-02	-.50
379	-3238000E+00	-3223943E+00	-1405705E-02	.44
380	-3490000E+00	-3485492E+00	-4308018E-03	.12
381	-3545000E+00	-3541849E+00	-3151230E-03	.09
382	-3602000E+00	-3599210E+00	-2790322E-03	.08
383	-2727000E+00	-2788561E+00	-6156077E-02	-.85
384	-2967000E+00	-2962529E+00	-4470513E-03	.15
385	-3173000E+00	-3170740E+00	-2260017E-03	.07
386	-3419000E+00	-3423825E+00	-4382178E-03	-.13
387	-3475000E+00	-3478845E+00	-3845105E-03	.10
388	-2936000E+00	-2919529E+00	-1647099E-02	.56
389	-3129000E+00	-3129582E+00	-5816644E-04	-.02
390	-3347000E+00	-3339769E+00	-7230837E-03	.22
391	-3605000E+00	-3610157E+00	-5157224E-03	.14
392	-3864000E+00	-3862246E+00	-1753644E-03	.05
393	-4193000E+00	-4168285E+00	-2471495E-02	.59
394	-4488000E+00	-4500828E+00	-1282818E-02	-.29
395	-4644000E+00	-4657978E+00	-1387757E-02	-.29
396	-5174000E+00	-5238179E+00	-6417934E-02	-.12
397	-5259000E+00	-5316686E+00	-5766061E-02	-.10
398	-5401800E+00	-5386417E+00	-1553151E-03	.08
399	-3018000E+00	-3054620E+00	-3661862E-02	-.12
400	-3281000E+00	-3297044E+00	-1608428E-02	-.48

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
401	.3556000E+00	.3532116E+00	.2389427E-02	.68
402	.3846000E+00	.3804280E+00	.4171962E-02	1.10
403	.4131000E+00	.4110606E+00	.2039448E-02	.50
404	.4395000E+00	.4448068E+00	-.5306798E-02	-1.19
405	.4778000E+00	.4814199E+00	-.3619871E-02	-.75
406	.5189000E+00	.5206995E+00	-.1799456E-02	-.35
407	.5315000E+00	.5288603E+00	.2638892E-02	.50
408	.3108000E+00	.3118268E+00	-.8267993E-03	-.27
409	.3382000E+00	.3371635E+00	.1036506E-02	.31
410	.3866000E+00	.3817046E+00	.4892425E-02	1.35
411	.3954000E+00	.3906488E+00	.5394155E-02	1.37
412	.4210000E+00	.4203570E+00	.6430040E-03	.15
413	.4528000E+00	.4570538E+00	-.4253757E-02	-.93
414	.4953000E+00	.4951229E+00	.1771051E-03	.04
415	.5054000E+00	.5030738E+00	.2326169E-02	.48
416	.5147000E+00	.5111338E+00	.3563995E-02	.70
417	.5232000E+00	.5183008E+00	.4891187E-02	.75
418	.5332000E+00	.5275741E+00	.5625896E-02	1.07
419	.3263000E+00	.3238953E+00	.2404684E-02	.74
420	.3538000E+00	.3516239E+00	.2160846E-02	.62
421	.3820000E+00	.3780499E+00	.3950098E-02	1.04
422	.4082000E+00	.4085191E+00	-.6809006E-03	-.17
423	.4405000E+00	.4427394E+00	-.2239408E-02	-.51
424	.4796000E+00	.4803900E+00	-.789511E-03	-.16
425	.4892000E+00	.4883073E+00	.8926991E-03	.18
426	.4992000E+00	.4963492E+00	.2850833E-02	.57
427	.5081000E+00	.5045137E+00	.3586253E-02	.71
428	.5176000E+00	.5127993E+00	.4800690E-02	.94
429	.3393000E+00	.3405707E+00	-.1270654E-02	-.37
430	.3683000E+00	.3706191E+00	-.2319079E-02	-.63
431	.3987000E+00	.3982768E+00	.4232072E-03	.11
432	.4302000E+00	.4323254E+00	-.2125355E-02	-.48
433	.4671000E+00	.4584460E+00	.866042E-02	.50
434	.4761000E+00	.4773271E+00	-.1227099E-02	-.26
435	.4856000E+00	.4853544E+00	.2456243E-03	.05
436	.2747000E+00	.2765333E+00	-.1833326E-02	-.66
437	.2819000E+00	.2859096E+00	-.4009555E-02	-1.35
438	.3168000E+00	.3149087E+00	.1891257E-02	.60
439	.3400000E+00	.3369729E+00	.3027093E-02	.90
440	.3532000E+00	.3518413E+00	.1358474E-02	.38
441	.3879000E+00	.3884443E+00	-.5442512E-03	-.14
442	.4187000E+00	.4180267E+00	.667156E-03	.08
443	.4523000E+00	.4509729E+00	.1327067E-02	.29
444	.4580000E+00	.4578115E+00	.1885495E-03	.08
445	.4641000E+00	.4643307E+00	-.2307089E-03	-.05
446	.4704000E+00	.4711298E+00	-.7287701E-03	-.15
447	.4770000E+00	.4780077E+00	-.1007727E-02	-.21
448	.4838000E+00	.4849637E+00	-.1163701E-02	-.24
449	.2864000E+00	.2882753E+00	-.1847351E-02	-.64
450	.3109000E+00	.3108927E+00	.7317071E-05	.00

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
451	.3341000E+00	.3323763E+00	.1723730E-02	.52
452	.3559000E+00	.3571257E+00	-.1225707E-02	-.34
453	.3820000E+00	.3849103E+00	-.2910311E-02	-.76
454	.4123000E+00	.4154723E+00	-.3172258E-02	-.76
455	.4452000E+00	.4485966E+00	-.3396638E-02	-.76
456	.4526000E+00	.4555128E+00	-.2912941E-02	-.64
457	.4601000E+00	.4625254E+00	-.2425360E-02	-.52
458	.4685000E+00	.4686267E+00	-.126893E-02	-.24
459	.4770000E+00	.4768218E+00	.1782202E-03	.04
460	.4855000E+00	.4841075E+00	.1392498E-02	.29
461	.2942000E+00	.2935792E+00	.6208246E-03	.21
462	.3178000E+00	.3174868E+00	.3131758E-03	.10
463	.3399000E+00	.3400103E+00	-.1103446E-03	-.03
464	.3645000E+00	.3659026E+00	-.1402586E-02	-.38
465	.3923000E+00	.3949393E+00	-.2639348E-02	-.67
466	.4233000E+00	.4268593E+00	-.3536900E-02	-.83
467	.4587000E+00	.4616287E+00	-.2738755E-02	-.59
468	.4648000E+00	.4686576E+00	-.3817649E-02	-.80
469	.4754000E+00	.4758744E+00	-.543833E-03	-.12
470	.2028000E+00	.2040260E+00	-.1259959E-02	-.47
471	.3287000E+00	.3301255E+00	-.1425513E-02	-.43
472	.3546000E+00	.3545319E+00	.6805208E-04	.02
473	.3817000E+00	.3825341E+00	-.8341077E-03	-.22
474	.4125000E+00	.4139065E+00	-.1406508E-02	-.34
475	.4458000E+00	.4483728E+00	-.2572751E-02	-.58
476	.4532000E+00	.4556158E+00	-.2415895E-02	-.53
477	.3163000E+00	.3180346E+00	-.1736956E-02	-.55
478	.3437000E+00	.3464543E+00	-.2734307E-02	-.79
479	.3730000E+00	.3730925E+00	-.9246825E-04	-.02
480	.4032000E+00	.4034740E+00	-.2740029E-03	-.07
481	.4091000E+00	.4102435E+00	-.1143537E-02	-.28
482	.4152000E+00	.4169581E+00	-.1750888E-02	-.42
483	.4216000E+00	.4238151E+00	-.2215112E-02	-.52
484	.4281000E+00	.4308121E+00	-.2712141E-02	-.63
485	.4351000E+00	.4379468E+00	-.2846790E-02	-.65
486	.2540000E+00	.2531575E+00	.8442499E-02	.81
487	.2880000E+00	.2875311E+00	.469955E-02	.55
488	.2948000E+00	.2934241E+00	.1375856E-02	.46
489	.3034000E+00	.3021170E+00	.1262867E-02	.48
490	.3241000E+00	.3232184E+00	.888127E-03	.24
491	.3444000E+00	.3467761E+00	-.2376132E-02	-.69
492	.3727000E+00	.3723051E+00	.3949477E-03	.11
493	.4048000E+00	.3997516E+00	.5028397E-02	1.21
494	.4104000E+00	.4054598E+00	.4940220E-02	1.22
495	.4164000E+00	.4112288E+00	.5161210E-02	1.30
496	.4232000E+00	.4170878E+00	.6112210E-02	1.47
497	.2623000E+00	.2612447E+00	.1055336E-02	.40
498	.2785000E+00	.2789546E+00	-.445156E-03	-.13
499	.2983000E+00	.2982369E+00	.6310635E-04	.02
500	.3187000E+00	.3198151E+00	-.1044499E-02	-.33

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
501	.3423000E+00	.3437304E+00	-.1430396E-02	-.42
502	.3687000E+00	.3703325E+00	-.1632517E-02	-.44
503	.4006000E+00	.3992202E+00	.1378003E-02	.35
504	.4078000E+00	.4052572E+00	.2542824E-02	.62
505	.4152000E+00	.4113779E+00	.3822137E-02	.92
506	.2667000E+00	.2654442E+00	.1255819E-02	.47
507	.2846000E+00	.2853492E+00	-.7481638E-03	-.26
508	.3053000E+00	.3047886E+00	.5334247E-03	.18
509	.3274000E+00	.3272875E+00	.1124589E-03	.03
510	.3515000E+00	.3526550E+00	-.1155040E-02	-.32
511	.3802000E+00	.3806142E+00	-.4141556E-03	-.11
512	.3865000E+00	.3864980E+00	.2007127E-05	.00
513	.3931000E+00	.3924756E+00	.6243556E-02	.16
514	.4000000E+00	.3985457E+00	.1454276E-02	.36
515	.2754000E+00	.2739662E+00	.1433786E-02	.55
516	.2853000E+00	.2860031E+00	-.7031017E-03	-.24
517	.3181000E+00	.3173034E+00	.796572E-02	.57
518	.3429000E+00	.3419342E+00	.9858978E-02	.28
519	.3704000E+00	.3696374E+00	.7625512E-02	.21
520	.3764000E+00	.3755232E+00	.8777823E-02	.23
521	.3826000E+00	.3815170E+00	.1082961E-02	.28
522	.3891000E+00	.3876201E+00	.1479920E-02	.38
523	.2668000E+00	.2655915E+00	.1208544E-02	.42
524	.3096000E+00	.3100082E+00	-.4081598E-03	-.13
525	.3356000E+00	.3335402E+00	.2059788E-02	.62
526	.3629000E+00	.3607505E+00	.2145528E-02	.60
527	.3688000E+00	.3661000E+00	.2700048E-02	.60
528	.3363000E+00	.3363396E+00	-.3943146E-04	-.04
529	.3471000E+00	.3467778E+00	.3224488E-03	.12
530	.2822000E+00	.2808085E+00	.1391459E-02	.53
531	.2788000E+00	.2782139E+00	.5861389E-03	.21
532	.2973000E+00	.2984460E+00	-.1146026E-02	-.38
533	.3187000E+00	.3211576E+00	-.2457639E-02	-.77
534	.3438000E+00	.3461041E+00	-.2304111E-02	-.67
535	.3733000E+00	.3731014E+00	.1986376E-03	.05
536	.3787000E+00	.3787336E+00	-.3361505E-04	-.01
537	.2429000E+00	.2440045E+00	-.1044523E-02	-.04
538	.2572000E+00	.2574238E+00	-.2237701E-03	-.16
539	.2743000E+00	.2741382E+00	.1608418E-03	.06
540	.2939000E+00	.2942288E+00	-.3297515E-03	-.11
541	.3165000E+00	.3173779E+00	-.8779025E-03	-.28
542	.3410000E+00	.3432319E+00	-.2231892E-02	-.65
543	.3464000E+00	.3487038E+00	-.2303768E-02	-.66
544	.3519000E+00	.3542718E+00	-.2371807E-02	-.67
545	.3577000E+00	.3593444E+00	-.2234393E-02	-.62
546	.3678000E+00	.3656900E+00	.21889988E-02	.52
547	.2478000E+00	.2475229E+00	.2726868E-04	.01
548	.2625000E+00	.2628344E+00	-.3324092E-03	-.15
549	.2808000E+00	.2803877E+00	.5122712E-03	.18
550	.2018000E+00	.2016211E+00	.1788740E-03	.08

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
551	.3254000E+00	.3260214E+00	-.6214354E-03	-.19
552	.3517000E+00	.3532324E+00	-.1532420E-02	-.42
553	.3575000E+00	.3589878E+00	-.1487765E-02	-.41
554	.2584000E+00	.2586118E+00	-.2117620E-03	-.08
555	.2736000E+00	.2737328E+00	-.1321744E-03	-.04
556	.2943000E+00	.2931515E+00	.1148548E-02	.39
557	.3178000E+00	.3184948E+00	-.6705233E-03	-.21
558	.3227000E+00	.3215842E+00	.1115847E-02	.35
559	.3278000E+00	.3268054E+00	.9945502E-02	.30
560	.3228000E+00	.3221556E+00	.6444476E-03	.19
561	.3379000E+00	.3376316E+00	.2684489E-03	.08
562	.3432000E+00	.3432307E+00	-.3071447E-04	-.01
563	.2675000E+00	.2699852E+00	-.2485249E-02	-.92
564	.2875000E+00	.2894063E+00	-.1906520E-02	-.66
565	.3115000E+00	.3110785E+00	.4235188E-03	.14
566	.3162000E+00	.3159402E+00	.2598137E-03	.08
567	.3211000E+00	.3208688E+00	.3312073E-03	.04
568	.3260000E+00	.3261577E+00	-.1576744E-03	-.05
569	.3154000E+00	.3120274E+00	.3372610E-02	1.14
570	.3465000E+00	.3454345E+00	.1065549E-02	.31
571	.3750000E+00	.3679785E+00	.7021460E-02	1.91
572	.3965000E+00	.3903955E+00	.6104549E-02	1.56
573	.4116000E+00	.4162401E+00	-.4640099E-02	-1.11
574	.4374000E+00	.4438814E+00	-.6481361E-02	-1.46
575	.4724000E+00	.4737104E+00	-.1290145E-02	-.05
576	.5211000E+00	.5043416E+00	.1675836E-01	2.32
577	.5474000E+00	.5370245E+00	.1037550E-01	1.92
578	.5496000E+00	.5437487E+00	.5851286E-02	1.08
579	.5902000E+00	.5905343E+00	-.3342032E-03	-.06
580	.5505000E+00	.5572808E+00	-.6880775E-02	-1.23
581	.5543000E+00	.5642877E+00	-.9987651E-02	-1.77
582	.5598000E+00	.5712546E+00	-.1145446E-01	-2.01
583	.3165000E+00	.3226570E+00	-.6157009E-02	-1.91
584	.3504000E+00	.3574230E+00	-.7022940E-02	-1.96
585	.3818000E+00	.3826676E+00	-.8675990E-03	-.22
586	.4050000E+00	.4094358E+00	-.4435939E-02	-1.08
587	.4358000E+00	.4381866E+00	-.2366574E-02	-.59
588	.4701000E+00	.4689802E+00	.1119787E-02	.24
589	.5100000E+00	.5017286E+00	.8271403E-02	1.65
590	.5482000E+00	.5263839E+00	.2183610E-01	2.21
591	.5495000E+00	.5435104E+00	.5989592E-02	1.10
592	.5500000E+00	.5507286E+00	-.7286174E-03	-.13
593	.5507000E+00	.5580179E+00	-.7317931E-02	-1.31
594	.5535000E+00	.5652778E+00	-.9877755E-02	-1.75
595	.5611000E+00	.5728075E+00	-.1170751E-01	-2.04
596	.5200000E+00	.5277182E+00	-.7714256E-02	-2.38
597	.5545000E+00	.5627744E+00	-.8274439E-02	-2.55
598	.3882000E+00	.3900580E+00	-.1858011E-02	-.48
599	.4170000E+00	.4179702E+00	-.9701551E-03	-.23
600	.4487000E+00	.4479829E+00	.7170521E-03	.16

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
601	.4808000E+00	.4801238E+00	.6764182E-03	.14
602	.5217000E+00	.5143280E+00	.7371968E-02	1.43
603	.5500000E+00	.5505130E+00	-.5130297E-03	-.09
604	.3509000E+00	.3579303E+00	-.7080272E-02	-1.27
605	.5588000E+00	.5655227E+00	-.6727331E-02	-1.58
606	.5829000E+00	.5731198E+00	.1029782E-01	1.79
607	.3348000E+00	.3382092E+00	-.3609176E-02	-1.07
608	.3707000E+00	.3764573E+00	-.5757263E-02	-1.53
609	.4078000E+00	.4046248E+00	.3175250E-02	.78
610	.4378000E+00	.4346458E+00	.3154187E-02	.73
611	.4672000E+00	.4669942E+00	.2057567E-03	.04
612	.5026000E+00	.5016822E+00	.9178218E-03	.18
613	.5488000E+00	.5386317E+00	.1016827E-01	1.89
614	.5489000E+00	.5462847E+00	.2615334E-02	.48
615	.5507000E+00	.5540235E+00	-.3323472E-02	-.60
616	.5547000E+00	.5518474E+00	.2847382E-02	.51
617	.5608000E+00	.5697558E+00	-.8956431E-02	-1.57
618	.3455000E+00	.3532031E+00	-.7703070E-02	-2.18
619	.3857000E+00	.3837710E+00	.0070973E-02	-.05
620	.4254000E+00	.4241702E+00	.1229813E-02	.29
621	.4555000E+00	.4535530E+00	.1946990E-02	.43
622	.4925000E+00	.4920194E+00	.4805676E-03	.10
623	.5342000E+00	.5299008E+00	.4299245E-02	.81
624	.5438000E+00	.5277845E+00	.16015544E-02	1.12
625	.5494000E+00	.5457685E+00	.3631476E-02	.67
626	.5501000E+00	.5538520E+00	-.3752034E-02	-.64
627	.2925000E+00	.2960535E+00	-.3553472E-02	-1.20
628	.3190000E+00	.3240928E+00	-.5092888E-02	-1.57
629	.3473000E+00	.3450150E+00	.2284999E-02	.66
630	.3665000E+00	.3649332E+00	.1566807E-02	.43
631	.3885000E+00	.3816220E+00	.68121979E-02	1.80
632	.4140000E+00	.4189008E+00	-.4900891E-02	-1.17
633	.4415000E+00	.4453437E+00	-.3843694E-02	-.86
634	.4721000E+00	.4747187E+00	-.2618651E-02	-.55
635	.5086000E+00	.5056702E+00	.2990070E-03	.18
636	.5158000E+00	.5120436E+00	.3856399E-02	.75
637	.5240000E+00	.5184788E+00	.5523176E-02	1.07
638	.5315000E+00	.5249894E+00	.6530640E-02	1.24
639	.5385000E+00	.5315207E+00	.6979283E-02	1.31
640	.3005000E+00	.3049180E+00	-.4415861E-02	-1.45
641	.3310000E+00	.3261868E+00	.4818576E-02	1.55
642	.3601000E+00	.3596031E+00	.4968141E-03	.14
643	.3887000E+00	.3846919E+00	.4008102E-02	.52
644	.4112000E+00	.4118113E+00	-.6112231E-03	-.15
645	.4354000E+00	.4409510E+00	-.5550965E-02	-1.28
646	.4665000E+00	.4720342E+00	-.5534175E-02	-1.17
647	.5086000E+00	.5049738E+00	.3626222E-02	.72
648	.5182000E+00	.5117770E+00	.6423016E-02	1.26
649	.5259000E+00	.5196504E+00	.6249563E-02	1.40
650	.5328000E+00	.5255835E+00	.7206490E-02	1.37

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
651	.5402000E+00	.5326058E+00	.7594410E-02	1.43
652	.3082000E+00	.3091162E+00	-.9162612E-03	-.30
653	.3393000E+00	.3416871E+00	-.2387127E-02	-.70
654	.3698000E+00	.3661336E+00	.3766429E-02	1.03
655	.3959000E+00	.3923652E+00	.3524813E-02	.90
656	.4178000E+00	.4207368E+00	-.2916770E-02	-.75
657	.4460000E+00	.4512334E+00	-.5223407E-02	-1.16
658	.4797000E+00	.4821127E+00	-.2407288E-02	-.84
659	.5273000E+00	.5182620E+00	.9038022E-02	1.74
660	.5343000E+00	.5252859E+00	.9040781E-02	1.70
661	.3172000E+00	.3177855E+00	-.5854676E-03	-.18
662	.3511000E+00	.3525482E+00	-.1448218E-02	-.41
663	.4322000E+00	.4388776E+00	-.6624231E-02	-1.14
664	.4074000E+00	.4072191E+00	.1808885E-03	.04
665	.4243000E+00	.4278282E+00	-.3585332E-02	-.83
666	.4667000E+00	.4708703E+00	-.4270270E-02	-.91
667	.5107000E+00	.5062548E+00	.4445354E-02	.88
668	.5198000E+00	.5135711E+00	.6218908E-02	1.17
669	.5286000E+00	.5208721E+00	.7727877E-02	1.46
670	.3279000E+00	.3301120E+00	-.2213001E-02	-.84
671	.3621000E+00	.3671865E+00	-.5095588E-02	-1.39
672	.3875000E+00	.3857567E+00	.1742346E-02	.44
673	.4247000E+00	.4266776E+00	-.1977562E-02	-.46
674	.4562000E+00	.4602852E+00	-.4085161E-02	-.89
675	.4940000E+00	.4965225E+00	-.2522486E-02	-.51
676	.5029000E+00	.5040752E+00	-.1175232E-02	-.23
677	.2648000E+00	.2705689E+00	-.5768946E-02	-2.13
678	.2898000E+00	.2925381E+00	-.2738100E-02	-.94
679	.3133000E+00	.3102831E+00	.3016817E-02	.97
680	.3333000E+00	.3297966E+00	.3503272E-02	1.06
681	.3580000E+00	.3511851E+00	.6811480E-03	-.11
682	.3722000E+00	.3743696E+00	-.2169441E-02	-.58
683	.3864000E+00	.3892506E+00	-.2850598E-02	-.71
684	.4242000E+00	.4257344E+00	-.1534446E-02	-.36
685	.4810000E+00	.4827380E+00	-.1727967E-02	-.80
686	.4574000E+00	.4595144E+00	-.2114429E-02	-.46
687	.2750000E+00	.2767767E+00	-.1776857E-02	-.64
688	.3019000E+00	.3019870E+00	-.8700895E-04	-.03
689	.3259000E+00	.3222164E+00	.3683609E-02	1.14
690	.3449000E+00	.3444152E+00	.4847916E-03	.14
691	.3687000E+00	.3687171E+00	-.1671313E-03	-.05
692	.3815000E+00	.3850466E+00	-.3546588E-02	-.90
693	.4201000E+00	.4222883E+00	-.2186301E-02	-.51
694	.4525000E+00	.4533348E+00	-.8347952E-03	-.18
695	.4889000E+00	.4895512E+00	-.6511631E-03	-.14
696	.2783000E+00	.2798728E+00	-.1572584E-02	-.56
697	.3054000E+00	.3063732E+00	-.9731671E-03	-.32
698	.3312000E+00	.3278425E+00	.3357518E-02	1.09
699	.3517000E+00	.3509841E+00	.7158961E-03	.20
700	.3749000E+00	.3765408E+00	-.1640766E-02	-.44

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
701	.4014000E+00	.4042246E+00	-.2824634E-02	-.70
702	.4317000E+00	.4339204E+00	-.2220414E-02	-.51
703	.4380000E+00	.4400912E+00	-.2091165E-02	-.48
704	.4446000E+00	.4463372E+00	-.1737152E-02	-.39
705	.4517000E+00	.4526576E+00	-.9575713E-03	-.21
706	.2865000E+00	.2865570E+00	-.5702017E-04	-.02
707	.3150000E+00	.3152495E+00	-.2495077E-03	-.08
708	.3425000E+00	.3434017E+00	-.908262E-02	1.21
709	.3654000E+00	.3678531E+00	-.1546722E-02	-.42
710	.3814000E+00	.3817458E+00	-.3455780E-03	-.09
711	.4209000E+00	.4219767E+00	-.1078746E-02	-.26
712	.4274000E+00	.4282922E+00	-.8922168E-03	-.21
713	.4339000E+00	.4346950E+00	-.7950271E-03	-.18
714	.4405000E+00	.4411842E+00	-.6841798E-03	-.16
715	.2987000E+00	.2985608E+00	.2139182E-02	.72
716	.3299000E+00	.3275731E+00	.2326879E-02	.71
717	.3571000E+00	.3529571E+00	.4142822E-02	1.17
718	.3831000E+00	.3809880E+00	.2112007E-02	.55
719	.4118000E+00	.4117807E+00	.1932835E-04	.00
720	.4178000E+00	.4182600E+00	-.4599408E-03	-.11
721	.4240000E+00	.4248433E+00	-.8433048E-03	-.20
722	.4307000E+00	.4315295E+00	-.8294537E-03	-.19
723	.2515000E+00	.2537022E+00	-.2202164E-02	-.87
724	.2724000E+00	.2708016E+00	.1598398E-02	.59
725	.2867000E+00	.2860250E+00	.6650385E-03	.23
726	.3021000E+00	.3032839E+00	-.1183825E-02	-.38
727	.3212000E+00	.3224809E+00	-.1280855E-02	-.40
728	.3417000E+00	.3434892E+00	-.1786215E-02	-.52
729	.3645000E+00	.3661728E+00	-.1672815E-02	-.46
730	.3815000E+00	.3804326E+00	.1067183E-02	.27
731	.3945000E+00	.3954651E+00	-.1034934E-02	-.26
732	.4015000E+00	.4005561E+00	.9439157E-03	.24
733	.4063000E+00	.4057050E+00	.1154968E-02	.29
734	.4125000E+00	.4109113E+00	.1588713E-02	.39
735	.4184000E+00	.4161742E+00	.2225752E-02	.53
736	.2572000E+00	.2584277E+00	-.1227743E-02	-.48
737	.2793000E+00	.2787684E+00	.1131621E-02	.41
738	.2977000E+00	.2964861E+00	.1212863E-02	.41
739	.3163000E+00	.3164204E+00	-.1203737E-03	-.04
740	.3372000E+00	.3385333E+00	-.1332906E-02	-.39
741	.3606000E+00	.3626810E+00	-.2081027E-02	-.57
742	.3880000E+00	.3887264E+00	-.7263865E-03	-.19
743	.3940000E+00	.3941524E+00	-.1524174E-03	-.04
744	.4002000E+00	.3996487E+00	.5513031E-03	.14
745	.4066000E+00	.4052144E+00	.1385607E-02	.34
746	.4131000E+00	.4108487E+00	.2251301E-02	.55
747	.2604000E+00	.2612426E+00	-.8425593E-03	-.32
748	.2828000E+00	.2828734E+00	-.9285740E-03	-.31
749	.3036000E+00	.3016311E+00	.1968882E-02	.65
750	.3233000E+00	.3227082E+00	.5918418E-03	.18

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TABLE OF RESIDUALS (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
751	.3451000E+00	.3480732E+00	-.2972327E-02	-.88
752	.3704000E+00	.3715780E+00	-.1177965E-02	-.32
753	.3898000E+00	.3907994E+00	-.7208111E-03	-.18
754	.4042000E+00	.4048080E+00	-.1391988E-02	-.34
755	.2669000E+00	.2681539E+00	-.1253865E-02	-.47
756	.2922000E+00	.2919768E+00	.2233431E-03	.08
757	.3157000E+00	.3126172E+00	.3082757E-02	.99
758	.3369000E+00	.3358042E+00	.1095798E-02	.33
759	.3613000E+00	.3615049E+00	-.2049145E-03	-.06
760	.3897000E+00	.3895569E+00	.1430524E-03	.04
761	.3958000E+00	.3954354E+00	.3646446E-03	.09
762	.2785000E+00	.2798459E+00	-.1345907E-02	-.48
763	.3034000E+00	.3059885E+00	-.2588496E-02	-.85
764	.3299000E+00	.3288608E+00	.1039172E-02	.32
765	.3538000E+00	.3546272E+00	-.8271623E-03	-.23
766	.3595000E+00	.3601265E+00	-.6245018E-03	-.17
767	.3647000E+00	.3657379E+00	-.1017867E-02	-.28
768	.3701000E+00	.3714587E+00	-.1359674E-02	-.37
769	.3757000E+00	.3772903E+00	-.1590329E-02	-.42
770	.3814000E+00	.3832283E+00	-.1828252E-02	-.48

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MAXIMUM RESIDUAL (TOTAL)

CASE NO.	Y VALUE	Y ESTIMATE	RESIDUAL	PERCENT VARIATION
576	.5211000E+00	.5043416E+00	.1675583E-01	3.32

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STANDARD DEVIATION (TOTAL) = .2348197741E-02

STANDARD DEVIATION (WITHIN) = .2326239423E-02

TREATMENT NO.	STANDARD DEVIATION (WITHIN)
1	.2803346997E-02
2	.1812706065E-02

AD-A115 652

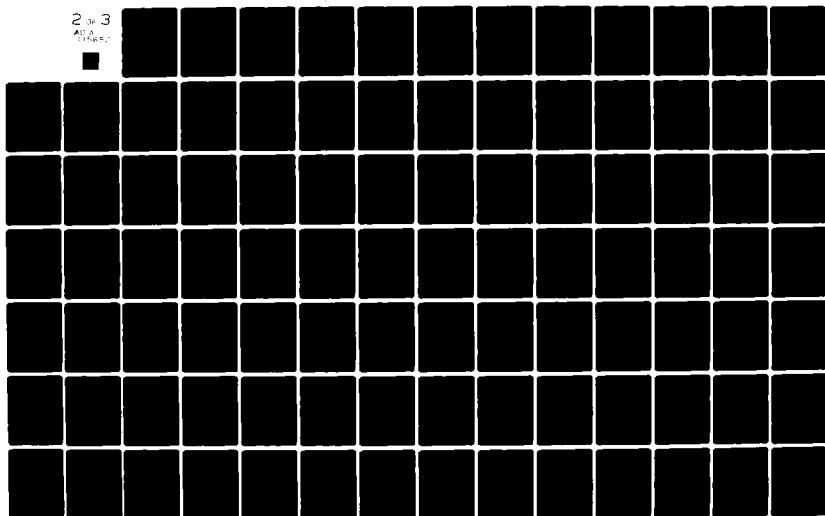
NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA SENSORS A--ETC F/G 12/1
ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE COVARIATE--ETC(U)
APR 82 J J FRANZ

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AD-A
THREE



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DATA INPUT

CASE NUMBER	GROUP NUMBER	1	2	3	4	5	6	7	8
1288872E-02	849481E-01	5000000E-02	5455455E-01	1081081E-00	409465E-03	3430000E-03			
3778445E-000		2500000E-04	3247305E-010	0	8575000E-06	1889822E-02			
4123927E-010	0	0	4455303E-000	0	1715000E-050	0			
0	0	0	3285000E-00	0					
CASE NUMBER	2	GROUP NUMBER	1						
1535534E-00	1767767E-02	5000000E-02	3535534E-02	7071088E-00	1226306E-000	3430000E-03			
3778445E-000		2500000E-04	883835E-010	0	8575000E-06	1889822E-02			
2672612E-000	0	0	1212688E-010	0	1715000E-050	0			
0	0	0	3436000E-00	0					
CASE NUMBER	3	GROUP NUMBER	1						
1035924E-01	5179630E-02	5000000E-02	5059174E-02	1011835E-01	3515432E-000	3430000E-03			
3778445E-000		2500000E-04	2599815E-040	0	8575000E-06	1889822E-02			
3824376E-000	0	0	3553226E-010	0	1715000E-050	0			
0	0	0	3405000E-00	0					
CASE NUMBER	4	GROUP NUMBER	1						
1837117E-01	9185587E-02	5000000E-02	6123724E-02	1224745E-01	6943651E-000	3430000E-03			
3778445E-000		2500000E-04	4582793E-040	0	8575000E-06	1889822E-02			
4829100E-000	0	0	6301312E-010	0	1715000E-050	0			
0	0	0	3802000E-00	0					
CASE NUMBER	5	GROUP NUMBER	1						
2628477E-01	1414214E-03	5000000E-02	7671048E-02	1414214E-01	1089045E-010	3430000E-03			
3778445E-000		2500000E-04	7671048E-040	0	8575000E-06	1889822E-02			
5345225E-000	0	0	8701505E-010	0	1715000E-050	0			
0	0	0	4021000E-00	0					
CASE NUMBER	6	GROUP NUMBER	1						
3952847E-01	1876424E-03	5000000E-02	7905694E-02	1581139E-01	1494036E-010	3430000E-03			
3778445E-000		2500000E-04	9882118E-040	0	8575000E-06	1889822E-02			
5978143E-000	0	0	1355827E-040	0	1715000E-050	0			
0	0	0	4315000E-00	0					
CASE NUMBER	7	GROUP NUMBER	1						
5198152E-01	2598076E-03	5000000E-02	8660254E-02	1732051E-01	1983961E-010	3430000E-03			
3778445E-000		2500000E-04	1299038E-050	0	8575000E-06	1889822E-02			
6546537E-000	0	0	1782280E-040	0	1715000E-050	0			
0	0	0	4661000E-00	0					
CASE NUMBER	8	GROUP NUMBER	1						
6547900E-01	3273950E-03	5000000E-02	9354141E-02	1870829E-01	2474874E-010	3430000E-03			
3778445E-000		2500000E-04	1828975E-050	0	8575000E-06	1889822E-02			
7071068E-000	0	0	2245930E-040	0	1715000E-050	0			
0	0	0	5010000E-00	0					

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CASE NUMBER	GROUP NUMBER	9	10	11	12	13	14	15	16
8000000E-01	4000000E-03	5000000E-02	1000000E-03	2000000E-01	3023716E-010	3430000E-03			
3778445E-000		2500000E-04	2000000E-050	0	8575000E-06	1889822E-02			
7559289E-000	0	0	2744000E-040	0	1715000E-050	0			
0	0	0	5415000E-00	0					
CASE NUMBER	10	GROUP NUMBER	1						
8501867E-01	4150934E-03	5000000E-02	1012423E-03	2024846E-01	3137811E-010	3430000E-03			
3778445E-000		2500000E-04	2075467E-050	0	8575000E-06	1889822E-02			
7653197E-000	0	0	2847540E-040	0	1715000E-050	0			
0	0	0	5491000E-00	0					
CASE NUMBER	11	GROUP NUMBER	1						
8607439E-01	4303719E-03	5000000E-02	1024695E-03	2049390E-01	3253306E-010	3430000E-03			
3778445E-000		2500000E-04	2151840E-050	0	8575000E-06	1889822E-02			
7745967E-000	0	0	2552251E-040	0	1715000E-050	0			
0	0	0	5504000E-00	0					
CASE NUMBER	12	GROUP NUMBER	1						
8916670E-01	4488335E-03	5000000E-02	1036822E-03	2073644E-01	3370184E-010	3430000E-03			
3778445E-000		2500000E-04	2291167E-050	0	8575000E-06	1889822E-02			
7837638E-000	0	0	3058418E-040	0	1715000E-050	0			
0	0	0	5501000E-00	0					
CASE NUMBER	13	GROUP NUMBER	1						
8229518E-01	4614759E-03	5000000E-02	1048809E-03	2097818E-01	3488430E-010	3430000E-03			
3778445E-000		2500000E-04	2307379E-050	0	8575000E-06	1889822E-02			
7928250E-000	0	0	3165725E-040	0	1715000E-050	0			
0	0	0	5538000E-00	0					
CASE NUMBER	14	GROUP NUMBER	1						
3232333E-000	0	5000000E-020	0	0	0	7290000E-03			
0	0	2500000E-040	0	0	0	1822500E-07	1666667E-02		
0	0	0	0	0	0	0			
0	0	0	3298000E-00	0	0	3645000E-050	0		
CASE NUMBER	15	GROUP NUMBER	1						
3535534E-00	1767767E-02	5000000E-02	3535534E-02	7071088E-00	1178511E-000	7290000E-03			
3232333E-000		2500000E-04	8828825E-020	0	1822500E-07	1666667E-02			
2357023E-000	0	0	3577404E-010	0	3645000E-050	0			
0	0	0	3458000E-00	0					
CASE NUMBER	16	GROUP NUMBER	1						
1000000E-01	5000000E-02	5000000E-02	5000000E-02	1000000E-01	3333333E-000	7290000E-03			
3232333E-000		2500000E-04	2500000E-040	0	1822500E-07	1666667E-02			
3232333E-000	0	0	7290000E-030	0	3645000E-050	0			
0	0	0	3704000E-00	0					

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CASE NUMBER	17	GROUP NUMBER	1
1827117E+01	5185587E+02	5000000E+02	6123724E+02
3333333E+000	2500000E+04	4582793E+040	0
4082483E+000	0	1328259E+040	0
0	0	3989000E+00	0
2828427E+01	1414214E+03	5000000E+02	7071088E+02
3333333E+000	2500000E+04	7071088E+040	0
4714045E+000	0	2061823E+040	0
0	0	4294000E+00	0
3952847E+01	1576424E+03	5000000E+02	7905694E+02
3333333E+000	2500000E+04	9882118E+040	0
5270483E+000	0	2881626E+040	0
0	0	4608000E+00	0
5198152E+01	2598076E+03	5000000E+02	8660254E+02
3333333E+000	2500000E+04	1299038E+050	0
5773803E+000	0	3787895E+040	0
0	0	4952000E+00	0
6547800E+01	3273850E+03	5000000E+02	9354142E+02
3333333E+000	2500000E+04	1636975E+050	0
6236096E+000	0	4773419E+040	0
0	0	5440000E+00	0
6830520E+01	3415260E+03	5000000E+02	9486833E+02
3333333E+000	2500000E+04	1707630E+050	0
6324555E+000	0	4979449E+040	0
0	0	5491000E+00	0
7117092E+01	3558546E+03	5000000E+02	9617692E+02
3333333E+000	2500000E+04	1778272E+050	0
6411795E+000	0	5188360E+040	0
0	0	5499000E+00	0
7467564E+01	3702782E+03	5000000E+02	9746794E+02
3333333E+000	2500000E+04	1851891E+050	0
6497863E+000	0	5400114E+040	0
0	0	5499000E+00	0

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CASE NUMBER	25	GROUP NUMBER	1
7701893E+01	3950941E+03	5000000E+02	9874209E+02
3333333E+000	2500000E+04	1925471E+050	0
6582806E+000	0	5614672E+040	0
0	0	5549000E+00	0
3162278E+000	5000000E+020	0	0
0	2500000E+040	0	0
0	0	3320000E+00	0
2823389E+00	1461685E+02	5000000E+02	3318419E+02
3162278E+000	2500000E+04	7308423E+030	0
2098752E+000	0	2823389E+030	0
0	0	3515000E+00	0
1000000E+01	5000000E+02	5000000E+02	1000000E+01
3162278E+000	2500000E+04	2500000E+040	0
3162278E+000	0	1000000E+040	0
0	0	3814000E+00	0
1827117E+01	5185587E+02	5000000E+02	6123724E+02
3162278E+000	2500000E+04	4582793E+040	0
3872983E+000	0	1827117E+040	0
0	0	4114000E+00	0
2828427E+01	1414214E+03	5000000E+02	7071088E+02
3162278E+000	2500000E+04	7071088E+040	0
4472136E+000	0	2828427E+040	0
0	0	4406000E+00	0
2828738E+01	1968269E+03	5000000E+02	7896277E+02
3162278E+000	2500000E+04	9846845E+040	0
4994044E+000	0	3938738E+040	0
0	0	4730000E+00	0
5198152E+01	2598076E+03	5000000E+02	8660254E+02
3162278E+000	2500000E+04	1299038E+050	0
5477226E+000	0	5198152E+040	0
0	0	5128000E+00	0

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CASE NUMBER	33	GROUP NUMBER	1
.6547900E-01	.1273950E-03	.5000000E-02	.9354143E-02
.3162278E-000	.2500000E-04	.1636975E-050	.1870829E-01
.5918080E-000	.0	.6547900E-040	.2070620E-010
.0	.0	.5499000E-00	.2500000E-07
.0	.0	.0	.1581139E-02
CASE NUMBER	34	GROUP NUMBER	1
.6830520E-01	.3415200E-03	.5000000E-02	.9488833E-02
.3162278E-000	.2500000E-04	.1707630E-050	.1897367E-01
.6000000E-000	.0	.6830520E-040	.2160000E-010
.0	.0	.5510000E-00	.2500000E-07
.0	.0	.0	.1581139E-02
CASE NUMBER	35	GROUP NUMBER	1
.7117092E-01	.3585460E-03	.5000000E-02	.9617692E-02
.3162278E-000	.2500000E-04	.1776273E-050	.1923538E-01
.6082763E-000	.0	.7117092E-040	.2250622E-010
.0	.0	.5581000E-00	.2500000E-07
.0	.0	.0	.1581139E-02
CASE NUMBER	36	GROUP NUMBER	1
.2886751E-000	.0	.5000000E-020	.0
.0	.0	.2500000E-040	.0
.0	.0	.0	.0
.0	.0	.3453000E-00	.0
CASE NUMBER	37	GROUP NUMBER	1
.3525534E-00	.1767767E-02	.5000000E-02	.3525534E-02
.2886751E-000	.2500000E-04	.8838835E-030	.7071068E-00
.2041241E-000	.0	.6109403E-030	.1020621E-000
.0	.0	.3728000E-00	.4320000E-07
.0	.0	.0	.1728000E-04
CASE NUMBER	38	GROUP NUMBER	1
.1000000E-01	.5000000E-02	.5000000E-02	.1000000E-01
.2886751E-000	.2500000E-04	.2500000E-040	.2886751E-000
.2886751E-000	.0	.1728000E-040	.4320000E-07
.0	.0	.4011000E-00	.1443376E-02
.0	.0	.0	.0
CASE NUMBER	39	GROUP NUMBER	1
.1837117E-01	.9185587E-02	.5000000E-02	.6123724E-02
.2886751E-000	.2500000E-04	.4582783E-040	.1224745E-01
.3525534E-000	.0	.3174528E-040	.5303301E-000
.0	.0	.4282000E-00	.4320000E-07
.0	.0	.0	.1728000E-04
CASE NUMBER	40	GROUP NUMBER	1
.2886751E-000	.0	.5000000E-020	.0
.4082483E-000	.0	.2500000E-040	.0
.0	.0	.7071068E-040	.0
.0	.0	.4887522E-040	.0
.0	.0	.4588000E-00	.0

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CASE NUMBER	41	GROUP NUMBER	1
.3952847E-01	.1976424E-03	.5000000E-02	.7905894E-02
.2886751E-000	.2500000E-04	.8882118E-040	.1581139E-01
.4564355E-000	.0	.6830520E-040	.1141088E-010
.0	.0	.4941000E-00	.4320000E-07
.0	.0	.0	.1443376E-02
CASE NUMBER	42	GROUP NUMBER	1
.5198152E-01	.2598078E-03	.5000000E-02	.8660254E-02
.2886751E-000	.2500000E-04	.1289038E-050	.1732051E-01
.5000000E-000	.0	.8978951E-040	.1500000E-010
.0	.0	.5641000E-00	.4320000E-07
.0	.0	.0	.1728000E-04
CASE NUMBER	43	GROUP NUMBER	1
.5458113E-01	.2729057E-03	.5000000E-02	.8803408E-02
.2886751E-000	.2500000E-04	.1264528E-050	.1760682E-01
.5082650E-000	.0	.9431620E-040	.1575622E-010
.0	.0	.5490000E-00	.4320000E-07
.0	.0	.0	.1728000E-04
CASE NUMBER	44	GROUP NUMBER	1
.5724324E-01	.2982167E-03	.5000000E-02	.8944272E-02
.2886751E-000	.2500000E-04	.1431084E-050	.1788854E-01
.5163978E-000	.0	.8891648E-040	.1652473E-010
.0	.0	.5503000E-00	.4320000E-07
.0	.0	.0	.1443376E-02
CASE NUMBER	45	GROUP NUMBER	1
.0	.0	.5000000E-020	.0
.2826129E-000	.0	.2500000E-040	.0
.0	.0	.0	.0
.0	.0	.3610000E-00	.0
CASE NUMBER	46	GROUP NUMBER	1
.3588555E-00	.1799428E-03	.5000000E-02	.3556517E-02
.2826129E-000	.2500000E-04	.8871400E-030	.7113033E-00
.1867974E-000	.0	.1097166E-040	.9451058E-010
.0	.0	.3895000E-00	.7621582E-07
.0	.0	.0	.1313064E-02
CASE NUMBER	47	GROUP NUMBER	1
.1063147E-01	.5315733E-02	.5000000E-02	.5103104E-02
.2826129E-000	.2500000E-04	.2657867E-040	.1020621E-01
.2880201E-000	.0	.2241135E-040	.2791960E-000
.0	.0	.4200000E-00	.7621582E-07
.0	.0	.0	.1313064E-02
CASE NUMBER	48	GROUP NUMBER	1
.1984009E-01	.8884044E-03	.5000000E-02	.8835800E-02
.2826129E-000	.2500000E-04	.4242022E-040	.1192738E-01
.3132278E-000	.0	.5172834E-040	.4458038E-000
.0	.0	.4440000E-00	.7621582E-07
.0	.0	.0	.1313064E-02

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CASE NUMBER 49	2828427E+01	1414214E+03	5000000E+02	7071068E+02	1414214E+01	7427874E+000	3048625E+04
	2626129E+000		2500000E+04	7071068E+040			7621562E+07
	3713907E+000			8622814E+040		1524313E+060	1313064E+02
	0	0	0	4850000E+00			0
CASE NUMBER 50	3952847E+01	1976424E+03	5000000E+02	7905894E+02	1581139E+01	1038068E+010	3048625E+04
	2626129E+000		2500000E+04	8822118E+040			7621562E+07
	4152274E+000			1205075E+050		1524313E+060	1313064E+02
	0	0	0	5252000E+00			0
CASE NUMBER 51	4192374E+01	2096187E+03	5000000E+02	8062258E+02	1612452E+01	1100871E+010	3048625E+04
	2626129E+000		2500000E+04	1048094E+050			7621562E+07
	4234505E+000			1278098E+050		1524313E+060	1313064E+02
	0	0	0	5253000E+00			0
CASE NUMBER 52	3779645E+000						3430000E+03
	0	0	0	0	0	0	0
	0	0	0	2888000E+00			0
CASE NUMBER 53	3535534E+000				7071068E+00	1338306E+000	3430000E+03
	3779645E+000				0	0	0
	2672612E+000			1212688E+030		0	0
	0	0	0	3170000E+00			0
CASE NUMBER 54	1000000E+010				1000000E+01	3779645E+000	3430000E+03
	3779645E+000				0	0	0
	3779645E+000			3430000E+030		0	0
	0	0	0	3245000E+00			0
CASE NUMBER 55	1761105E+010				1207615E+01	6656350E+000	3430000E+03
	3779645E+000				0	0	0
	6564355E+000			6040588E+030		0	0
	0	0	0	3545000E+00			0
CASE NUMBER 56	2828427E+010				1414214E+01	1069045E+010	3430000E+03
	3779645E+000				0	0	0
	5345225E+000			8701505E+030		0	0
	0	0	0	3818000E+00			0

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CASE NUMBER 57	3952847E+010				1581139E+01	1494038E+010	3430000E+03
	3779645E+000				0	0	0
	5976143E+000			1355827E+040		0	0
	0	0	0	4091000E+00			0
CASE NUMBER 58	5242815E+010				1737198E+01	1981522E+010	3430000E+03
	3779645E+000				0	0	0
	6565991E+000			1798217E+040		0	0
	0	0	0	4375000E+00			0
CASE NUMBER 59	6547800E+010				1870829E+01	2474874E+010	3430000E+03
	3779645E+000				0	0	0
	7071068E+000			2245830E+040		0	0
	0	0	0	4667000E+00			0
CASE NUMBER 60	8000000E+010				2000000E+01	3023716E+010	3430000E+03
	3779645E+000				0	0	0
	7559288E+000			2744000E+040		0	0
	0	0	0	4980000E+00			0
CASE NUMBER 61	8201847E+010				2024646E+01	3137811E+010	3430000E+03
	3779645E+000				0	0	0
	7853197E+000			2847540E+040		0	0
	0	0	0	5029000E+00			0
CASE NUMBER 62	8807439E+010				2049390E+01	3253106E+010	3430000E+03
	3779645E+000				0	0	0
	7745987E+000			2852351E+040		0	0
	0	0	0	5190000E+00			0
CASE NUMBER 63	8916670E+010				2073644E+01	3370186E+010	3430000E+03
	3779645E+000				0	0	0
	7837628E+000			3058418E+040		0	0
	0	0	0	5193000E+00			0
CASE NUMBER 64	3333333E+000						7290000E+03
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	3038000E+00			0

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CASE NUMBER 65	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.3535534E-000.	0.	0.	.7071088E-00 .117811E-000.	0.	0.
.3333333E-000.	0.	0.	.2577494E-030.	0.	0.
.2357023E-000.	0.	0.	.3272000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 66	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.1000000E-010.	0.	0.	.1000000E+01 .3333333E-000.	0.	0.
.3333333E-000.	0.	0.	.7290000E-030.	0.	0.
.3333333E-000.	0.	0.	.3527000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 67	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.1837117E-010.	0.	0.	.1224745E+01 .6123724E-000.	0.	0.
.3333333E-000.	0.	0.	.1339259E-040.	0.	0.
.4082463E-000.	0.	0.	.3778000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 68	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.2828427E-010.	0.	0.	.1414214E+01 .9428090E-000.	0.	0.
.3333333E-000.	0.	0.	.2061923E-040.	0.	0.
.4714045E-000.	0.	0.	.4078000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 69	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.3952847E-010.	0.	0.	.1561139E+01 .1317818E-010.	0.	0.
.3333333E-000.	0.	0.	.2881626E-040.	0.	0.
.5270463E-000.	0.	0.	.4279000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 70	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.5196152E-010.	0.	0.	.1732051E+01 .1732051E-010.	0.	0.
.3333333E-000.	0.	0.	.3787895E-040.	0.	0.
.5773503E-000.	0.	0.	.4578000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 71	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.5547900E-010.	0.	0.	.1870829E+01 .2182433E-010.	0.	0.
.3333333E-000.	0.	0.	.4773419E-040.	0.	0.
.6236096E-000.	0.	0.	.4978000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 72	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.6830520E-010.	0.	0.	.1897367E+01 .2278840E-010.	0.	0.
.3333333E-000.	0.	0.	.4979449E-040.	0.	0.
.8324555E-000.	0.	0.	.5044000E-00	0.	0.
0.	0.	0.		0.	0.

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CASE NUMBER 73	0.	0.	GROUP NUMBER 1	0.	7290000E-03
.7117092E-010.	0.	0.	.1923538E+01 .2372364E-010.	0.	0.
.3333333E-000.	0.	0.	.5198360E-040.	0.	0.
.6411795E-000.	0.	0.	.5117000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 74	0.	0.	GROUP NUMBER 1	0.	1000000E-04
.3162278E-000.	0.	0.	.3128000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 75	0.	0.	GROUP NUMBER 1	0.	1000000E-04
.3535534E-000.	0.	0.	.7071088E-00 .1118034E-000.	0.	0.
.3162278E-000.	0.	0.	.3535534E-030.	0.	0.
.2238068E-000.	0.	0.	.3360000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 76	0.	0.	GROUP NUMBER 1	0.	1000000E-04
.1000000E-010.	0.	0.	.1000000E+01 .3162278E-000.	0.	0.
.3162278E-000.	0.	0.	.1000000E-040.	0.	0.
.3162278E-000.	0.	0.	.3815000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 77	0.	0.	GROUP NUMBER 1	0.	1000000E-04
.1837117E-010.	0.	0.	.1224745E+01 .5809475E-000.	0.	0.
.3162278E-000.	0.	0.	.1837117E-040.	0.	0.
.3872983E-000.	0.	0.	.3844000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 78	0.	0.	GROUP NUMBER 1	0.	1000000E-04
.2828427E-010.	0.	0.	.1414214E+01 .8944272E-000.	0.	0.
.3162278E-000.	0.	0.	.2828427E-040.	0.	0.
.4472136E-000.	0.	0.	.4101000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 79	0.	0.	GROUP NUMBER 1	0.	1000000E-04
.3952847E-010.	0.	0.	.1561139E+01 .1250000E-010.	0.	0.
.3162278E-000.	0.	0.	.3952847E-040.	0.	0.
.5000000E-000.	0.	0.	.4384000E-00	0.	0.
0.	0.	0.		0.	0.
CASE NUMBER 80	0.	0.	GROUP NUMBER 1	0.	1000000E-04
.5196152E-010.	0.	0.	.1732051E+01 .1643168E-010.	0.	0.
.3162278E-000.	0.	0.	.5196152E-040.	0.	0.
.5477226E-000.	0.	0.	.4719000E-00	0.	0.
0.	0.	0.		0.	0.

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CASE NUMBER 81	0.	0.	GROUP NUMBER 1	1760682E+01	1726007E+010	1000000E+04
.5458113E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5587704E+000	0.	0.		.5458113E+040	0.	0.
0.	0.	0.		.4802000E+00	0.	0.
CASE NUMBER 82	0.	0.	GROUP NUMBER 1	1788954E+01	1810193E+010	1000000E+04
.5724234E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5656854E+000	0.	0.		.5724234E+040	0.	0.
0.	0.	0.		.4891000E+00	0.	0.
CASE NUMBER 83	0.	0.	GROUP NUMBER 1	1816590E+01	1895706E+010	1000000E+04
.5894748E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5744563E+000	0.	0.		.5894748E+040	0.	0.
0.	0.	0.		.4978000E+00	0.	0.
CASE NUMBER 84	0.	0.	GROUP NUMBER 1	1843809E+01	192524E+010	1000000E+04
.6269290E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5830952E+000	0.	0.		.6269290E+040	0.	0.
0.	0.	0.		.5061000E+00	0.	0.
CASE NUMBER 85	0.	0.	GROUP NUMBER 1	1870829E+01	2070628E+010	1000000E+04
.6847900E+010	0.	0.		0.	0.	0.
.3162278E+000	0.	0.		0.	0.	0.
.5916060E+000	0.	0.		.6547900E+040	0.	0.
0.	0.	0.		.5132000E+00	0.	0.
CASE NUMBER 86	0.	0.	GROUP NUMBER 1	1091091E+00	3749666E+030	1728000E+04
.1298922E+020	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.3149709E+010	0.	0.		.2244538E+010	0.	0.
0.	0.	0.		.2260000E+00	0.	0.
CASE NUMBER 87	0.	0.	GROUP NUMBER 1	7071048E+00	1020621E+000	1728000E+04
.3535534E+000	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.2041241E+000	0.	0.		.6109403E+020	0.	0.
0.	0.	0.		.3472000E+00	0.	0.
CASE NUMBER 88	0.	0.	GROUP NUMBER 1	1000000E+01	2886751E+000	1728000E+04
.1000000E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		.1728000E+040	0.	0.
0.	0.	0.		.3727000E+00	0.	0.

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CASE NUMBER 89	0.	0.	GROUP NUMBER 1	1224745E+01	5302301E+000	1728000E+04
.1827117E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.3535534E+000	0.	0.		.3174539E+040	0.	0.
0.	0.	0.		.3997000E+00	0.	0.
CASE NUMBER 90	0.	0.	GROUP NUMBER 1	1414214E+01	8164966E+000	1728000E+04
.2828427E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4082483E+000	0.	0.		.4887522E+040	0.	0.
0.	0.	0.		.4267000E+00	0.	0.
CASE NUMBER 91	0.	0.	GROUP NUMBER 1	1581139E+01	1141089E+010	1728000E+04
.3952847E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4564355E+000	0.	0.		.4830520E+040	0.	0.
0.	0.	0.		.4598000E+00	0.	0.
CASE NUMBER 92	0.	0.	GROUP NUMBER 1	1612452E+01	1210234E+010	1728000E+04
.4182374E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4654747E+000	0.	0.		.7244422E+040	0.	0.
0.	0.	0.		.4670000E+00	0.	0.
CASE NUMBER 93	0.	0.	GROUP NUMBER 1	1643168E+01	1280722E+010	1728000E+04
.4438553E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4743416E+000	0.	0.		.7866363E+040	0.	0.
0.	0.	0.		.4741000E+00	0.	0.
CASE NUMBER 94	0.	0.	GROUP NUMBER 1	1673320E+01	1352526E+010	1728000E+04
.4685296E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4820459E+000	0.	0.		.8096192E+040	0.	0.
0.	0.	0.		.4822000E+00	0.	0.
CASE NUMBER 95	0.	0.	GROUP NUMBER 1	1702939E+01	1425629E+010	1728000E+04
.4938522E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.4915860E+000	0.	0.		.8533788E+040	0.	0.
0.	0.	0.		.4912000E+00	0.	0.
CASE NUMBER 96	0.	0.	GROUP NUMBER 1	1732051E+01	1500000E+010	1728000E+04
.5196152E+010	0.	0.		0.	0.	0.
.2886751E+000	0.	0.		0.	0.	0.
.5000000E+000	0.	0.		.8878951E+040	0.	0.
0.	0.	0.		.5012000E+00	0.	0.

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CASE NUMBER 105
.3718064E+010. 0. 0. 1548193E+01 .9764114E+000. 3048625E+04
.2626129E+000. 0. 0. 0. 0. 0.
.4068381E+000. 0. 1123488E+050. 0. 0. 0.
0. 0. 4791000E+00
CASE NUMBER 106
0. 0. 1000000E+030. 0. 0. 0. 3430000E+07 3430000E+03
.3779645E+000. 0. 1000000E+050. 0. 0. 3430000E+07 3779645E+02
0. 0. 0. 0. 0. 3430000E+050. 0.
0. 0. 0. 2671000E+00
CASE NUMBER 107
.3525534E+00 .3525534E+02 1000000E+03 7071068E+02 7071068E+00 1236306E+000. 3430000E+03
.3779645E+000. 1000000E+05 3535534E+040. 0. 3430000E+07 3779645E+02
.2676112E+000. 0. 1212688E+030. 3430000E+050. 0.
0. 0. 2861000E+00
CASE NUMBER 108
1000000E+01 1000000E+03 1000000E+03 1000000E+03 1000000E+01 3779645E+000. 3430000E+03
.3779645E+000. 1000000E+05 1000000E+050 0 3430000E+07 3779645E+02
.3779645E+000. 0. 3430000E+030 3430000E+050. 0.
0. 0. 3840000E+00
CASE NUMBER 109
.1837117E+01 1837117E+03 1000000E+03 1224745E+03 1224745E+01 6942851E+000. 3430000E+03
.3779645E+000. 1000000E+05 1837117E+050. 0. 3430000E+07 3779645E+02
.4629100E+000. 0. 6301312E+030 3430000E+050. 0.
0. 0. 1231000E+00
CASE NUMBER 110
.228427E+01 2828427E+03 1000000E+03 1414214E+03 1414214E+01 1059045E+010. 3430000E+03
.3779645E+000. 1000000E+05 2828427E+050 0 3430000E+07 3779645E+02
.5245229E+000. 0. 8701505E+030 3430000E+050. 0.
0. 0. 3416000E+00
CASE NUMBER 111
.3952847E+01 3952847E+03 1000000E+03 1581138E+03 1581138E+01 1494036E+010. 3430000E+03
.3779645E+000. 1000000E+05 1581138E+050. 0. 3430000E+07 3779645E+02
.5978143E+000. 0. 1355827E+040 3430000E+050. 0.
0. 0. 3825000E+00
CASE NUMBER 112
.86152E+01 5196152E+03 1000000E+03 1722051E+03 1722051E+01 1963981E+010. 3430000E+03
.3779645E+000. 1000000E+05 1598152E+050 0 3430000E+07 3779645E+02
.6548537E+000. 0. 1782280E+040 3430000E+050. 0.
0. 0. 3889000E+00

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CASE NUMBER	129	GROUP NUMBER	1
.6289280E+01	.6289280E+03	.1000000E+03	.1843909E+03
.3333333E+000	.1000000E+05	.6289280E+050	.2089763E+010
.6146363E+000	.0	.4570311E+040	.7290000E+07
.0	.0	.4410000E+00	.3333333E+02
CASE NUMBER	130	GROUP NUMBER	1
.6547900E+01	.6547900E+03	.1000000E+03	.1870829E+03
.3333333E+000	.1000000E+05	.6547900E+050	.2182833E+010
.6236086E+000	.0	.4773419E+040	.7290000E+07
.0	.0	.4488000E+00	.3333333E+02
CASE NUMBER	131	GROUP NUMBER	1
.2628817E+02	.2628817E+00	.1000000E+03	.1380130E+02
.3162278E+000	.1000000E+05	.2628817E+020	.8313050E+030
.4364356E+010	.0	.2628817E+010	.1000000E+08
.0	.0	.2647000E+00	.3162278E+02
CASE NUMBER	132	GROUP NUMBER	1
.353534E+00	.353534E+02	.1000000E+03	.7071068E+02
.3162278E+000	.1000000E+05	.353534E+040	.1118034E+000
.2236086E+000	.0	.353534E+030	.1000000E+08
.0	.0	.3052000E+00	.3162278E+02
CASE NUMBER	133	GROUP NUMBER	1
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+03
.3162278E+000	.1000000E+05	.1000000E+050	.3162278E+000
.3162278E+000	.0	.1000000E+040	.1000000E+08
.0	.0	.3229000E+00	.3162278E+02
CASE NUMBER	134	GROUP NUMBER	1
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03
.3162278E+000	.1000000E+05	.1837117E+050	.5808475E+000
.3872983E+000	.0	.1837117E+040	.1000000E+08
.0	.0	.3432000E+00	.3162278E+02
CASE NUMBER	135	GROUP NUMBER	1
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03
.3162278E+000	.1000000E+05	.2828427E+050	.8944272E+000
.4472136E+000	.0	.2828427E+040	.1000000E+08
.0	.0	.3670000E+00	.3162278E+02
CASE NUMBER	136	GROUP NUMBER	1
.3952847E+01	.3952847E+03	.1000000E+03	.1581139E+03
.3162278E+000	.1000000E+05	.3952847E+050	.1250000E+010
.5000000E+000	.0	.3952847E+040	.1000000E+08
.0	.0	.3942000E+00	.3162278E+02

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CASE NUMBER	137	GROUP NUMBER	1
.5186152E+01	.5186152E+03	.1000000E+03	.1732051E+03
.3162278E+000	.1000000E+05	.5186152E+050	.1643168E+010
.5477226E+000	.0	.5186152E+040	.1000000E+08
.0	.0	.4259000E+00	.3162278E+02
CASE NUMBER	138	GROUP NUMBER	1
.5458113E+01	.5458113E+03	.1000000E+03	.1760682E+03
.3162278E+000	.1000000E+05	.5458113E+050	.1726007E+010
.5547764E+000	.0	.5458113E+040	.1000000E+08
.0	.0	.4327000E+00	.3162278E+02
CASE NUMBER	139	GROUP NUMBER	1
.5724334E+01	.5724334E+03	.1000000E+03	.1788854E+03
.3162278E+000	.1000000E+05	.5724334E+050	.1810193E+010
.5636854E+000	.0	.5724334E+040	.1000000E+08
.0	.0	.4396000E+00	.3162278E+02
CASE NUMBER	140	GROUP NUMBER	1
.2886751E+000	.1000000E+030	.0	.0
.0	.1000000E+050	.0	.0
.0	.0	.2803000E+00	.1728000E+04
.0	.0	.0	.1728000E+08
CASE NUMBER	141	GROUP NUMBER	1
.353534E+00	.353534E+02	.1000000E+03	.7071068E+02
.2886751E+000	.1000000E+05	.353534E+040	.1020821E+000
.2041241E+000	.0	.6109403E+030	.1728000E+08
.0	.0	.3126000E+00	.2886751E+02
CASE NUMBER	142	GROUP NUMBER	1
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+03
.2886751E+000	.1000000E+05	.1000000E+050	.2886751E+000
.2886751E+000	.0	.1728000E+040	.1728000E+08
.0	.0	.3345000E+00	.2886751E+02
CASE NUMBER	143	GROUP NUMBER	1
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03
.2886751E+000	.1000000E+05	.1837117E+050	.5303301E+000
.353534E+000	.0	.3174539E+040	.1728000E+08
.0	.0	.3375000E+00	.2886751E+02
CASE NUMBER	144	GROUP NUMBER	1
.2828427E+01	.2828427E+03	.1000000E+03	.1414214E+03
.2886751E+000	.1000000E+05	.2828427E+050	.8164966E+000
.4082483E+000	.0	.4887522E+040	.1728000E+08
.0	.0	.3843000E+00	.2886751E+02

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CASE NUMBER 145
3952847E-01 3952847E-03 1000000E-03 1581139E-03 1581139E-01 1141088E-010 1728000E-04
2886751E-000 1000000E-05 3952847E-050 0 1728000E-08 2886751E-02
4564355E-000 0 4153000E-00 1728000E-060 0
0 0 4153000E-00 1728000E-060 0
CASE NUMBER 146
4192374E-01 4192374E-03 1000000E-03 1612452E-03 1612452E-01 1210234E-010 1728000E-04
2886751E-000 1000000E-05 4192374E-050 0 1728000E-08 2886751E-02
4654747E-000 0 4218000E-00 1728000E-060 0
0 0 4218000E-00 1728000E-060 0
CASE NUMBER 147
4436553E-01 4436553E-03 1000000E-03 1643188E-03 1643188E-01 1280722E-010 1728000E-04
2886751E-000 1000000E-05 4436553E-050 0 1728000E-08 2886751E-02
4743418E-000 0 4282000E-00 1728000E-060 0
0 0 4282000E-00 1728000E-060 0
CASE NUMBER 148
2626129E-000 1000000E-030 0 0 0 3048625E-04
0 1000000E-050 0 0 3048625E-08 2626129E-02
0 0 3020000E-00 3048625E-060 0
0 0 3020000E-00 3048625E-060 0
CASE NUMBER 149
3535534E-00 3535534E-02 1000000E-03 7071068E-02 7071068E-00 9284767E-010 3048625E-04
2626129E-000 1000000E-05 3535534E-040 0 3048625E-08 2626129E-02
1856953E-000 0 1077852E-040 3048625E-060 0
0 0 3250000E-00 3048625E-060 0
CASE NUMBER 150
1000000E-01 1000000E-03 1000000E-03 1000000E-03 1000000E-01 2626129E-000 3048625E-04
2626129E-000 1000000E-05 1000000E-050 0 3048625E-08 2626129E-02
2626129E-000 0 3048625E-040 3048625E-060 0
0 0 3486000E-00 3048625E-060 0
CASE NUMBER 151
1837117E-01 1837117E-03 1000000E-03 1224745E-03 1224745E-01 4824506E-000 3048625E-04
2626129E-000 1000000E-05 1837117E-050 0 3048625E-08 2626129E-02
2163338E-000 0 5600482E-040 3048625E-060 0
0 0 3760000E-00 3048625E-060 0
CASE NUMBER 152
2828427E-01 2828427E-03 1000000E-03 1414214E-03 1414214E-01 7427814E-000 3048625E-04
2626129E-000 1000000E-05 2828427E-050 0 3048625E-08 2626129E-02
3713907E-000 0 6622814E-040 3048625E-060 0
0 0 4065000E-00 3048625E-060 0

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TRANSGENERATED
DATA INPUT
CASE NUMBER 153
3042188E-01 3042188E-03 1000000E-03 1449138E-03 1449138E-01 7991806E-000 3048625E-04
2626129E-000 1000000E-05 3042188E-050 0 3048625E-08 2626129E-02
3005622E-000 0 3277542E-040 3048625E-060 0
0 0 4128000E-00 3048625E-060 0
CASE NUMBER 154
0 2000000E-030 0 0 0 3430000E-03
3779645E-000 4000000E-050 0 0 1372000E-08 7559289E-02
0 0 2520000E-00 6860000E-050 0
0 0 2520000E-00 6860000E-050 0
CASE NUMBER 155
3535534E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1336306E-000 3430000E-03
3779645E-000 4000000E-05 1414214E-050 0 1372000E-08 7559289E-02
2672612E-000 0 2647000E-00 6860000E-050 0
0 0 2647000E-00 6860000E-050 0
CASE NUMBER 156
1000000E-01 2000000E-03 2000000E-03 2000000E-03 1000000E-01 3779645E-000 3430000E-03
3779645E-000 4000000E-05 4000000E-050 0 1372000E-08 7559289E-02
3779645E-000 0 3430000E-030 6860000E-050 0
0 0 2782000E-00 6860000E-050 0
CASE NUMBER 157
1837117E-01 2874235E-03 2000000E-03 2449480E-03 1224745E-01 6943651E-000 3430000E-03
3779645E-000 4000000E-05 2449480E-050 0 1372000E-08 7559289E-02
4629100E-000 0 6701312E-030 6860000E-050 0
0 0 2930000E-00 6860000E-050 0
CASE NUMBER 158
2828427E-01 5656854E-03 2000000E-03 2828427E-03 1414214E-01 1089045E-010 3430000E-03
3779645E-000 4000000E-05 1131371E-060 0 1372000E-08 7559289E-02
5345225E-000 0 9701505E-030 6860000E-050 0
0 0 3116000E-00 6860000E-050 0
CASE NUMBER 159
3952847E-01 7905694E-03 2000000E-03 3142278E-03 1581139E-01 1494038E-010 3430000E-03
3779645E-000 4000000E-05 1581139E-040 0 1372000E-08 7559289E-02
5978143E-000 0 135827E-040 6860000E-050 0
0 0 3340000E-00 6860000E-050 0
CASE NUMBER 160
5196152E-01 1039230E-04 2000000E-03 3464102E-02 1722051E-01 1962901E-010 3430000E-03
3779645E-000 4000000E-05 2078461E-060 0 1372000E-08 7559289E-02
6546537E-000 0 1782280E-040 6860000E-050 0
0 0 3577000E-00 6860000E-050 0

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DATA INPUT

CASE NUMBER 161	GROUP NUMBER 1	
.4547900E+01	.1309580E+04	.2000000E+03
.3779645E+00	.4000000E+05	.3741657E+03
.7071068E+00	.0	.2618180E+06
.0	.0	.2248930E+04
.0	.0	.3858000E+00
CASE NUMBER 162	GROUP NUMBER 1	
.4830520E+01	.1368104E+04	.2000000E+03
.3779645E+00	.4000000E+05	.3794733E+03
.7171372E+00	.0	.2732208E+06
.0	.0	.2342868E+04
.0	.0	.3908000E+00
CASE NUMBER 163	GROUP NUMBER 1	
.7117082E+01	.1423418E+04	.2000000E+03
.3779645E+00	.4000000E+05	.3847077E+03
.7270292E+00	.0	.2848937E+06
.0	.0	.2441183E+04
.0	.0	.3962000E+00
CASE NUMBER 164	GROUP NUMBER 1	
.7407564E+01	.1481513E+04	.2000000E+03
.3779645E+00	.4000000E+05	.3898718E+03
.7267884E+00	.0	.2963025E+06
.0	.0	.2540794E+04
.0	.0	.4019000E+00
CASE NUMBER 165	GROUP NUMBER 1	
.0	.0	.2000000E+03
.3333333E+00	.4000000E+05	.0
.0	.0	.0
.0	.0	.2585000E+00
CASE NUMBER 166	GROUP NUMBER 1	
.353534E+00	.7071068E+02	.2000000E+03
.3333333E+00	.4000000E+05	.1414214E+03
.2357023E+00	.0	.1414214E+05
.0	.0	.2577404E+03
.0	.0	.2734000E+00
CASE NUMBER 167	GROUP NUMBER 1	
.1000000E+01	.2000000E+03	.2000000E+03
.3333333E+00	.4000000E+05	.4000000E+05
.3333333E+00	.0	.7290000E+03
.0	.0	.2897000E+00
CASE NUMBER 168	GROUP NUMBER 1	
.1837117E+01	.1874235E+03	.2000000E+03
.3333333E+00	.4000000E+05	.2449490E+03
.4082483E+00	.0	.7348469E+05
.0	.0	.1339258E+04
.0	.0	.3083000E+00

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DATA INPUT

CASE NUMBER 169	GROUP NUMBER 1	
.2828427E+01	.5658854E+03	.2000000E+03
.3333333E+00	.4000000E+05	.2828427E+03
.4714045E+00	.0	.1131371E+06
.0	.0	.2061923E+04
.0	.0	.3298000E+00
CASE NUMBER 170	GROUP NUMBER 1	
.3952847E+01	.7905694E+03	.2000000E+03
.3333333E+00	.4000000E+05	.3162278E+03
.5270463E+00	.0	.1581139E+06
.0	.0	.2891628E+04
.0	.0	.3539000E+00
CASE NUMBER 171	GROUP NUMBER 1	
.5196152E+01	.1039230E+04	.2000000E+03
.3333333E+00	.4000000E+05	.3464102E+03
.5773503E+00	.0	.1732051E+06
.0	.0	.2078461E+04
.0	.0	.3787995E+04
.0	.0	.3822000E+00
CASE NUMBER 172	GROUP NUMBER 1	
.5458113E+01	.1051823E+04	.2000000E+03
.3333333E+00	.4000000E+05	.3521383E+03
.5868939E+00	.0	.1760682E+06
.0	.0	.2182245E+04
.0	.0	.3878965E+04
.0	.0	.3884000E+00
CASE NUMBER 173	GROUP NUMBER 1	
.5724334E+01	.1144867E+04	.2000000E+03
.3333333E+00	.4000000E+05	.3577709E+03
.5962848E+00	.0	.1788854E+06
.0	.0	.2289734E+04
.0	.0	.4173040E+04
.0	.0	.3948000E+00
CASE NUMBER 174	GROUP NUMBER 1	
.0	.0	.2000000E+03
.3162278E+00	.4000000E+05	.0
.0	.0	.0
.0	.0	.2619000E+00
CASE NUMBER 175	GROUP NUMBER 1	
.3935334E+00	.7071068E+02	.2000000E+03
.3162278E+00	.4000000E+05	.1414214E+03
.2236688E+00	.0	.1414214E+05
.0	.0	.353534E+03
.0	.0	.2783000E+00
CASE NUMBER 176	GROUP NUMBER 1	
.1000000E+01	.2000000E+03	.2000000E+03
.3162278E+00	.4000000E+05	.4000000E+05
.3162278E+00	.0	.1000000E+04
.0	.0	.1000000E+04
.0	.0	.2558000E+00

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DATA INPUT
CASE NUMBER 177
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5809475E+000 1000000E+04
3162278E+000 4000000E+05 7348489E+050 0 4000000E+08 6324555E+02
3872883E+000 0 0 3180000E+00 2000000E+060 0 0
0 0 0 0 0 0 0
CASE NUMBER 178
2828427E+01 5656854E+03 2000000E+03 2828427E+03 1414214E+01 8944272E+000 1000000E+04
3162278E+000 4000000E+05 131271E+080 0 4000000E+08 6324555E+02
4472136E+000 0 0 2828427E+040 2000000E+060 0 0
0 0 0 3382000E+00 0 0 0
CASE NUMBER 179
3852847E+01 7905894E+03 2000000E+03 3162278E+03 1581139E+01 1250000E+010 1000000E+04
3162278E+000 4000000E+05 1581139E+080 0 4000000E+08 6324555E+02
5000000E+000 0 0 3852847E+040 2000000E+060 0 0
0 0 0 3635000E+00 0 0 0
CASE NUMBER 180
4192374E+01 8384748E+03 2000000E+03 3224803E+03 1612452E+01 1325745E+010 1000000E+04
3162278E+000 4000000E+05 1678950E+080 0 4000000E+08 6324555E+02
5098020E+000 0 0 4192374E+040 2000000E+060 0 0
0 0 0 3696000E+00 0 0 0
CASE NUMBER 181
4438555E+01 8873105E+03 2000000E+03 3286335E+03 1642148E+01 1402981E+010 1000000E+04
3162278E+000 4000000E+05 1774621E+080 0 4000000E+08 6324555E+02
5194152E+000 0 0 4438555E+040 2000000E+060 0 0
0 0 0 3754000E+00 0 0 0
CASE NUMBER 182
4385288E+01 9370592E+03 2000000E+03 3346640E+03 1673320E+01 1481621E+010 1000000E+04
3162278E+000 4000000E+05 1874118E+080 0 4000000E+08 6324555E+02
5291503E+000 0 0 4695286E+040 2000000E+060 0 0
0 0 0 3815000E+00 0 0 0
CASE NUMBER 183
4938522E+01 9877944E+03 2000000E+03 3405877E+03 1702938E+01 1561698E+010 1000000E+04
3162278E+000 4000000E+05 1975409E+080 0 4000000E+08 6324555E+02
5385165E+000 0 0 4938522E+040 2000000E+060 0 0
0 0 0 3878000E+00 0 0 0
CASE NUMBER 184
2886751E+000 2000000E+030 0 0 0 0 1728000E+04
0 4000000E+050 0 0 0 0 5773503E+02
0 0 0 2691000E+00 0 0 0
0 0 0 0 0 0 0

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DATA INPUT
CASE NUMBER 185
3535534E+00 7071088E+02 2000000E+03 1414214E+03 7071088E+00 1020421E+000 1728000E+04
2886751E+000 4000000E+05 1414214E+050 0 4000000E+08 5773503E+02
2041241E+000 0 0 6109403E+030 3456000E+060 0 0
0 0 0 2887000E+00 0 0 0
CASE NUMBER 186
1000000E+01 2000000E+03 2000000E+03 2000000E+03 1000000E+01 2886751E+000 1728000E+04
2886751E+000 4000000E+05 4000000E+030 0 4000000E+08 5773503E+02
2886751E+000 0 0 1728000E+040 3456000E+060 0 0
0 0 0 3083000E+00 0 0 0
CASE NUMBER 187
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5202301E+000 1728000E+04
2886751E+000 4000000E+05 7348489E+050 0 4000000E+08 5773503E+02
3535534E+000 0 0 3174538E+040 3456000E+060 0 0
0 0 0 3304000E+00 0 0 0
CASE NUMBER 188
2828427E+01 5656854E+03 2000000E+03 2828427E+03 1414214E+01 8184968E+000 1728000E+04
2886751E+000 4000000E+05 1131271E+080 0 4000000E+08 5773503E+02
4082483E+000 0 0 4887322E+040 3456000E+060 0 0
0 0 0 3550000E+00 0 0 0
CASE NUMBER 189
3043188E+01 6086378E+03 2000000E+03 2898275E+03 1449138E+01 8784930E+000 1728000E+04
2886751E+000 4000000E+05 1212727E+080 0 4000000E+08 5773503E+02
4183300E+000 0 0 5258831E+040 3456000E+060 0 0
0 0 0 3805000E+00 0 0 0
CASE NUMBER 190
3263127E+01 6526255E+03 2000000E+03 2864478E+03 1483240E+01 8419837E+000 1728000E+04
2886751E+000 4000000E+05 1305251E+080 0 4000000E+08 5773503E+02
4261744E+000 0 0 5828684E+040 3456000E+060 0 0
0 0 0 3861000E+00 0 0 0
CASE NUMBER 191
3489123E+01 6878245E+03 2000000E+03 3023150E+03 1516575E+01 1008934E+010 1728000E+04
2886751E+000 4000000E+05 1285249E+080 0 4000000E+08 5773503E+02
4377975E+000 0 0 6027476E+040 3456000E+060 0 0
0 0 0 3715000E+00 0 0 0
CASE NUMBER 192
3718068E+01 7436126E+03 2000000E+03 3098387E+03 1549193E+01 1072312E+010 1728000E+04
2886751E+000 4000000E+05 1487226E+080 0 4000000E+08 5773503E+02
4477138E+000 0 0 6424815E+040 3456000E+060 0 0
0 0 0 3779000E+00 0 0 0

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CASE NUMBER	GROUP NUMBER						
1707447E-02	192	2000000E-03	2390456E-02	1195228E-00	4484028E-030		3048625E-04
2626129E-000		4000000E-05	6829688E-020	0	1219450E-09	5252257E-02	
3138623E-010		0	5205428E-010	6097250E-060	0	0	
0		0	2821000E-00	0	0	0	
CASE NUMBER 194	GROUP NUMBER 1						
3335534E-00	7071068E-02	2000000E-03	1414214E-03	7071068E-00	8284787E-010	3048625E-04	
2626129E-000		4000000E-05	1414214E-050	0	1219450E-09	5252257E-02	
1856953E-000		0	1077852E-040	6097250E-060	0	0	
0		0	3033000E-00	0	0	0	
CASE NUMBER 195	GROUP NUMBER 1						
1000000E-01	2000000E-03	2000000E-03	2000000E-03	1000000E-01	2626129E-000	3048625E-04	
2626129E-000		4000000E-05	4000000E-050	0	1219450E-09	5252257E-02	
2626129E-000		0	3048625E-040	6097250E-060	0	0	
0		0	2236000E-00	0	0	0	
CASE NUMBER 196	GROUP NUMBER 1						
1837117E-01	3674235E-03	2000000E-03	2448490E-03	1224745E-01	4824508E-000	3048625E-04	
2626129E-000		4000000E-05	7348489E-050	0	1219450E-09	5252257E-02	
3218338E-000		0	5600832E-040	6097250E-060	0	0	
0		0	3477000E-00	0	0	0	
CASE NUMBER 197	GROUP NUMBER 1						
2023858E-01	4047715E-03	2000000E-03	2529822E-03	1264911E-01	5314911E-000	3048625E-04	
2626129E-000		4000000E-05	8095431E-050	0	1219450E-09	5252257E-02	
3321819E-000		0	6189983E-040	6097250E-060	0	0	
0		0	3529000E-00	0	0	0	
CASE NUMBER 198	GROUP NUMBER 1						
2218529E-01	4433058E-03	2000000E-03	2607681E-03	1303840E-01	5820490E-000	3048625E-04	
2626129E-000		4000000E-05	8986115E-050	0	1219450E-09	5252257E-02	
3424053E-000		0	6757365E-040	6097250E-060	0	0	
0		0	3584000E-00	0	0	0	
CASE NUMBER 199	GROUP NUMBER 1						
2414953E-01	4829807E-03	2000000E-03	2683262E-03	1341641E-01	6341978E-000	3048625E-04	
2626129E-000		4000000E-05	9659814E-050	0	1219450E-09	5252257E-02	
3523231E-000		0	7362287E-040	6097250E-060	0	0	
0		0	3641000E-00	0	0	0	
CASE NUMBER 200	GROUP NUMBER 2						
0		5000000E-020	0	0	0	3430000E-03	
1779645E-000		2500000E-040	5832000E-04	6803361E-01	8575000E-06	1889822E-02	
0		1800000E-020	0	1715000E-050	0	0	
0		2616000E-06	3057000E-00	0	0	0	

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DATA INPUT

CASE NUMBER	GROUP NUMBER						
3535534E-00	201	5000000E-02	3535534E-02	7071068E-00	1236306E-00	1272792E-02	3430000E-03
3779645E-00		2500000E-04	8838835E-03	5832000E-04	6803361E-01	8575000E-06	1889822E-02
2672612E-00		1800000E-02	1212688E-03	3181881E-03	1715000E-05	1580890E-05	2061823E-04
6363961E-03		2916000E-06	3284000E-00	0	0	0	0
CASE NUMBER 202	GROUP NUMBER 2						
1000000E-01	5000000E-02	5000000E-02	5000000E-02	1000000E-01	3779645E-00	1800000E-02	3430000E-03
3779645E-00		2500000E-04	2500000E-04	5832000E-04	6803361E-01	8575000E-06	1889822E-02
3779645E-00		1800000E-02	1430000E-03	8000000E-03	1715000E-05	4500000E-05	5832000E-04
5000000E-03		2916000E-06	3476000E-00	0	0	0	0
CASE NUMBER 203	GROUP NUMBER 2						
938400E-01	9882039E-03	5000000E-02	4232117E-02	1248423E-01	7318934E-00	2243562E-02	3430000E-03
3779645E-00		2500000E-04	4841020E-04	5832000E-04	6803361E-01	8575000E-06	1889822E-02
4711039E-00		1800000E-02	6841879E-03	1742767E-04	1715000E-05	8713835E-05	1129313E-05
1121781E-04		2916000E-06	3715000E-00	0	0	0	0
CASE NUMBER 204	GROUP NUMBER 2						
2628427E-01	1414214E-03	5000000E-02	7071068E-02	1414214E-01	1089045E-01	2545584E-02	3430000E-03
3779645E-00		2500000E-04	7071068E-04	5832000E-04	6803361E-01	8575000E-06	1889822E-02
5345225E-00		1800000E-02	1701505E-03	2545584E-04	1715000E-05	1272792E-02	1649539E-05
172792E-04		2916000E-06	3930000E-00	0	0	0	0
CASE NUMBER 205	GROUP NUMBER 2						
3981115E-01	1990558E-03	5000000E-02	7924485E-02	1584698E-01	1504720E-01	2852818E-02	3430000E-03
3779645E-00		2500000E-04	9952788E-04	5832000E-04	6803361E-01	8575000E-06	1889822E-02
5990355E-00		1800000E-02	365522E-04	3583004E-04	1715000E-05	1791502E-06	2321786E-05
1426409E-04		2916000E-06	4240000E-00	0	0	0	0
CASE NUMBER 206	GROUP NUMBER 2						
5196152E-01	2598076E-03	5000000E-02	8660254E-02	1732051E-01	1963961E-01	3117691E-02	3430000E-03
3779645E-00		2500000E-04	1299038E-05	5832000E-04	6803361E-01	8575000E-06	1889822E-02
8846527E-00		1800000E-02	1782280E-04	4678537E-04	1715000E-05	2338269E-06	3030366E-05
558846E-04		2916000E-06	4592000E-00	0	0	0	0
CASE NUMBER 207	GROUP NUMBER 2						
8547900E-01	3273959E-03	5000000E-02	8354143E-02	1870828E-01	2474874E-01	3387493E-02	3430000E-03
3779645E-00		2500000E-04	1636975E-05	5832000E-04	6803361E-01	8575000E-06	1889822E-02
7071068E-00		1800000E-02	2245930E-04	5893110E-04	1715000E-05	2946555E-06	3818736E-05
1682746E-04		2916000E-06	4919000E-00	0	0	0	0
CASE NUMBER 208	GROUP NUMBER 2						
8000000E-01	4000000E-03	5000000E-02	1000000E-03	2000000E-01	1023716E-01	3600000E-02	3430000E-03
3779645E-00		2500000E-04	2000000E-05	5832000E-04	6803361E-01	8575000E-06	1889822E-02
7889289E-00		1800000E-02	2744900E-04	7200000E-04	1715000E-05	3800000E-06	4845600E-05
1800000E-04		2916000E-06	5292000E-00	0	0	0	0

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DATA INPUT
CASE NUMBER 209
GROUP NUMBER 2
3501867E-01 -4150834E-03 -5000000E-02 -1012423E-02 -2024848E-01 -3127811E-01 -3644722E-02 -3430000E-03
3779645E-00 -1494336E-02 -2500000E-04 -2075467E-05 -5832000E-04 -6803361E-01 -8575000E-06 -1889822E-02
7853197E-00 -1180890E-05 -1800000E-02 -2847540E-04 -7471681E-04 -1715000E-05 -3735840E-06 -4841449E-05
1822361E-04 -3111806E-05 -2916000E-06 -5419000E-00
CASE NUMBER 210
GROUP NUMBER 2
8607439E-01 -4202715E-02 -5000000E-02 -1024895E-02 -2049390E-01 -3253306E-01 -3688902E-02 -3430000E-03
3779645E-00 -1548339E-02 -2500000E-04 -2151860E-05 -5832000E-04 -6803361E-01 -8575000E-06 -1889822E-02
7745867E-00 -1185204E-05 -1800000E-02 -2952351E-04 -7746895E-04 -1715000E-05 -3873347E-06 -5019858E-05
864451E-04 -3222256E-05 -2916000E-06 -5488000E-00
CASE NUMBER 211
GROUP NUMBER 2
8816670E-01 -4458335E-02 -5000000E-02 -1036822E-03 -2073644E-01 -3370184E-01 -3732558E-02 -3430000E-03
3779645E-00 -1605001E-03 -2500000E-04 -2229147E-05 -5832000E-04 -6803361E-01 -8575000E-06 -1889822E-02
7827638E-00 -1209349E-05 -1800000E-02 -3058418E-04 -8025003E-04 -1715000E-05 -4012501E-06 -5200202E-05
1866280E-04 -9231399E-05 -2916000E-06 -5498000E-00
CASE NUMBER 212
GROUP NUMBER 2
0 0 -5000000E-020 0 0 0 0 7290000E-03
3333333E-000 2500000E-040 5832000E-04 6000000E-01 1822500E-07 1668667E-02
0 0 -1800000E-020 0 0 0 0 0
0 0 -2916000E-06 3094000E-00 3645000E-050 0 0
CASE NUMBER 213
GROUP NUMBER 2
3535534E-00 -1767767E-02 -5000000E-02 -3535534E-02 -7071068E-00 -1178511E-00 -1272782E-02 -7290000E-03
3333333E-00 -4363961E-01 -2500000E-04 -8838835E-03 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
2357023E-00 -4122847E-04 -1800000E-02 -2577404E-02 -3181981E-03 -3645000E-05 -1590990E-05 -2061923E-04
6363961E-02 -2181981E-05 -2916000E-06 -3344000E-00
CASE NUMBER 214
GROUP NUMBER 2
1000000E-01 -5000000E-02 -5000000E-02 -5000000E-02 -1000000E-01 -3333333E-00 -1800000E-02 -7290000E-03
3333333E-00 -1800000E-02 -2500000E-04 -2500000E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
3333333E-00 -5832000E-04 -1800000E-02 -7290000E-03 -9000000E-03 -3645000E-05 -4500000E-05 -5832000E-04
9000000E-03 -9500000E-05 -2916000E-06 -3620000E-00
CASE NUMBER 215
GROUP NUMBER 2
1837117E-01 -9185587E-02 -5000000E-02 -6123724E-02 -1224745E-01 -6123724E-00 -2204541E-02 -7290000E-03
3333333E-00 -3304811E-02 -2500000E-04 -4582783E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
4082487E-00 -7142712E-04 -1800000E-02 -1339259E-04 -1653406E-04 -3645000E-05 -8267028E-05 -1071407E-05
1102270E-04 -5511352E-05 -2916000E-06 -3920000E-00
CASE NUMBER 216
GROUP NUMBER 2
2828627E-01 -1414214E-03 -5000000E-02 -7071068E-02 -1414214E-01 -9428090E-00 -2545584E-02 -7290000E-03
3333333E-00 -5091169E-02 -2500000E-04 -7071068E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
4714045E-00 -3247883E-04 -1800000E-02 -2061823E-04 -2545584E-04 -3645000E-05 -1272782E-06 -1649538E-05
1272782E-04 -6363961E-05 -2916000E-06 -4220000E-00

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TRANSGENERATED
DATA INPUT
CASE NUMBER 217
GROUP NUMBER 2
3952847E-01 -1976424E-03 -5000000E-02 -7905894E-02 -1581139E-01 -317616E-01 -2846050E-02 -7290000E-03
3333333E-00 -715125E-02 -2500000E-04 -9882118E-04 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
5270463E-00 -8221202E-04 -1800000E-02 -2881626E-04 -3557562E-04 -3645000E-05 -1778781E-06 -2305300E-05
1423025E-04 -7115125E-05 -2916000E-06 -4502000E-00
CASE NUMBER 218
GROUP NUMBER 2
5196152E-01 -2588076E-03 -5000000E-02 -8680254E-02 -1732051E-01 -1732051E-01 -3117881E-02 -7290000E-03
3333333E-00 -9353074E-02 -2500000E-04 -1288038E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
5772503E-00 -1010132E-05 -1800000E-02 -3787955E-04 -4676537E-04 -3645000E-05 -2328268E-06 -3070386E-05
1558848E-04 -7794229E-05 -2916000E-06 -4854000E-00
CASE NUMBER 219
GROUP NUMBER 2
6547900E-01 -3273950E-03 -5000000E-02 -9354143E-02 -1870828E-01 -2182633E-01 -3267492E-02 -7290000E-03
3333333E-00 -1178822E-03 -2500000E-04 -1636975E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
6226098E-00 -1091047E-05 -1800000E-02 -4772419E-04 -5983110E-04 -3645000E-05 -2946555E-06 -3818766E-05
1682746E-04 -8418729E-05 -2916000E-06 -5235000E-00
CASE NUMBER 220
GROUP NUMBER 2
8830520E-01 -3415280E-03 -5000000E-02 -9486832E-02 -1897367E-01 -2276840E-01 -3415280E-02 -7290000E-03
3333333E-00 -1229494E-03 -2500000E-04 -1707830E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
6324555E-00 -1106544E-05 -1800000E-02 -4979449E-04 -6147468E-04 -3645000E-05 -3072734E-06 -3983559E-05
1707630E-04 -8538150E-05 -2916000E-06 -5439000E-00
CASE NUMBER 221
GROUP NUMBER 2
7117092E-01 -3558546E-03 -5000000E-02 -9817682E-02 -1923538E-01 -2372364E-01 -3462348E-02 -7290000E-03
3333333E-00 -1281077E-03 -2500000E-04 -1779273E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
6411795E-00 -1121808E-05 -1800000E-02 -5188260E-04 -8405383E-04 -3645000E-05 -3202691E-06 -4150888E-05
1731185E-04 -8659523E-05 -2916000E-06 -5494000E-00
CASE NUMBER 222
GROUP NUMBER 2
7407564E-01 -3702782E-03 -5000000E-02 -9746794E-02 -1948359E-01 -2469188E-01 -3508846E-02 -7290000E-03
3333333E-00 -1333261E-03 -2500000E-04 -1851881E-05 -5832000E-04 -6000000E-01 -1822500E-07 -1668667E-02
6497863E-00 -1136868E-05 -1800000E-02 -5400114E-04 -6684807E-04 -3645000E-05 -3333404E-06 -4320001E-05
1754423E-04 -877215E-05 -2916000E-06 -5302000E-00
CASE NUMBER 223
GROUP NUMBER 2
0 0 -5000000E-020 0 0 0 0 1000000E-04
3162278E-000 2500000E-040 5832000E-04 5892100E-01 2500000E-07 1581139E-02
0 0 -1800000E-020 0 0 0 0 0
0 0 -2916000E-06 3174000E-00 3645000E-050 0 0
CASE NUMBER 224
GROUP NUMBER 2
3535534E-00 -1767767E-02 -5000000E-02 -3535534E-02 -7071068E-00 -1118034E-00 -1272782E-02 -7290000E-03
3162278E-00 -6363961E-01 -2500000E-04 -8838835E-03 -5832000E-04 -5892100E-01 -2500000E-07 -1581139E-02
2236068E-00 -4123847E-04 -1800000E-02 -3535534E-02 -3181981E-03 -5000000E-05 -1590990E-05 -2061923E-04
8282981E-02 -3181981E-05 -2916000E-06 -3455000E-00

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DATA INPUT

CASE NUMBER 223	GROUP NUMBER 2
1000000E-01	5000000E-02
3162278E-00	1800000E-02
3162278E-00	5832000E-04
3162278E-00	5832000E-04
9000000E-03	4500000E-05
CASE NUMBER 226	GROUP NUMBER 2
1837117E-01	5185587E-02
3162278E-00	3308811E-02
3872983E-00	7142712E-04
1102270E-04	5511352E-05
CASE NUMBER 227	GROUP NUMBER 2
2830041E-01	1465021E-03
3162278E-00	5274074E-02
4525062E-00	8345303E-04
1287855E-04	6439277E-05
CASE NUMBER 228	GROUP NUMBER 2
4066322E-01	2033161E-03
3162278E-00	7319379E-02
5047294E-00	9308608E-04
1438514E-04	7182568E-05
CASE NUMBER 229	GROUP NUMBER 2
3198152E-01	2598078E-03
3162278E-00	9353074E-02
5477228E-00	1010132E-05
1588846E-04	7794228E-05
CASE NUMBER 230	GROUP NUMBER 2
6547800E-01	3273950E-03
3162278E-00	1178422E-02
5816080E-00	1091067E-05
1683748E-04	848728E-05
CASE NUMBER 231	GROUP NUMBER 2
6820520E-01	3415260E-03
3162278E-00	1228494E-02
6000000E-00	1106544E-05
1707630E-04	8538150E-05
CASE NUMBER 232	GROUP NUMBER 2
0.	0.
2886751E-000	2500000E-040
0.	0.
0.	0.
0.	0.

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DATA INPUT

CASE NUMBER 233	GROUP NUMBER 2
3535534E-00	1767767E-02
2886751E-00	6333961E-01
2041241E-00	4123847E-04
8282961E-03	3181981E-05
CASE NUMBER 234	GROUP NUMBER 2
1000000E-01	5000000E-02
2886751E-00	1800000E-02
2886751E-00	5832000E-04
9000000E-03	4500000E-05
CASE NUMBER 235	GROUP NUMBER 2
1781103E-01	8905524E-02
2886751E-00	3169989E-02
2486082E-00	7042809E-04
1086853E-04	5434268E-05
CASE NUMBER 236	GROUP NUMBER 2
2715548E-01	1357775E-03
2886751E-00	4887988E-02
4027438E-00	8136484E-04
1255630E-04	6270151E-05
CASE NUMBER 237	GROUP NUMBER 2
3952847E-01	1976424E-03
2886751E-00	7115125E-02
4584355E-00	9221202E-04
1423025E-04	7115125E-05
CASE NUMBER 238	GROUP NUMBER 2
4192374E-01	2096187E-03
2886751E-00	7548272E-02
4654747E-00	9403817E-04
1491206E-04	7256032E-05
CASE NUMBER 239	GROUP NUMBER 2
4428553E-01	2218278E-03
2886751E-00	7985795E-02
8743418E-00	9582954E-04
1478993E-04	7594255E-05
CASE NUMBER 240	GROUP NUMBER 2
4695298E-01	2343848E-03
2886751E-00	8433533E-02
4820459E-00	8758802E-04
1505988E-04	7529949E-05

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DATA INPUT
CASE NUMBER 241
4938522E+01 2448261E+03 5000000E+02 8514693E+02 1702938E+01 1425629E+01 3065280E+02 1728000E+04
2886751E+00 8889340E+02 2500000E+04 1234631E+05 5822000E+04 5186152E+01 4320000E+07 1442376E+02
4915960E+00 9831538E+04 1800000E+02 8533766E+04 4444670E+04 8640000E+05 222235E+06 2880146E+05
1532645E+04 766224E+05 2916000E+06 5257000E+00
CASE NUMBER 242
5188152E+01 2598078E+03 5000000E+02 8660254E+02 1732051E+01 1500000E+01 3117891E+02 1728000E+04
2886751E+00 8889340E+02 2500000E+04 1234631E+05 5822000E+04 5186152E+01 4320000E+07 1442376E+02
5000000E+00 1010132E+05 1800000E+02 8578951E+04 4676537E+04 8640000E+05 222235E+06 2880146E+05
1532645E+04 766224E+05 2916000E+06 5361000E+00
CASE NUMBER 243
0 0 5000000E+020 0 0 0 3048625E+04
2626129E+00 2500000E+040 5822000E+04 4727032E+01 7621562E+07 1313064E+02
0 0 1800000E+020 0 1524313E+06 0
0 0 2916000E+06 3532000E+00
CASE NUMBER 244
3535534E+00 1767767E+02 5000000E+02 3535534E+02 7071068E+00 8284767E+01 1272792E+02 3048625E+04
2626129E+00 422847E+04 2500000E+04 8838935E+03 5822000E+04 4727032E+01 7621562E+07 1313064E+02
1858953E+00 4123847E+04 1800000E+02 1077852E+04 3181981E+03 1524313E+06 1589890E+05 2061923E+04
6363861E+03 3181981E+05 2916000E+06 3807000E+00
CASE NUMBER 245
1000000E+01 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2626129E+00 1800000E+02 3048625E+04
2626129E+00 1800000E+02 2500000E+04 2500000E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
2626129E+00 5822000E+04 1800000E+02 3048625E+04 9000000E+02 1524313E+06 4500000E+05 5822000E+04
5000000E+03 4500000E+05 2916000E+06 4070000E+00
CASE NUMBER 246
1837117E+01 8185587E+02 5000000E+02 6123724E+02 1224745E+01 4824508E+00 2204541E+02 3048625E+04
2626129E+00 3306811E+02 2500000E+04 4592793E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3215338E+00 7142712E+04 1800000E+02 5600682E+04 1851408E+04 1524313E+06 8267028E+05 1071407E+05
1102270E+04 5511352E+05 2916000E+06 4382000E+00
CASE NUMBER 247
2828427E+01 1414214E+03 5000000E+02 7071068E+02 1414214E+01 7427814E+00 2545584E+02 3048625E+04
2626129E+00 5091169E+02 2500000E+04 7071068E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3713807E+00 8247853E+04 1800000E+02 8622814E+04 2545584E+04 1524313E+06 1272792E+02 1648529E+05
1272792E+04 8623861E+05 2916000E+06 4759000E+00
CASE NUMBER 248
3042188E+01 1521589E+03 5000000E+02 7245688E+02 1449138E+01 7891808E+00 2688448E+02 3048625E+04
2626129E+00 5877740E+02 2500000E+04 7607973E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3805622E+00 8451271E+04 1800000E+02 8277542E+04 2728870E+04 1524313E+06 1389435E+06 1774788E+05
1304224E+04 6521120E+05 2916000E+06 4854000E+00

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TRANSGENERATED
DATA INPUT
CASE NUMBER 249
3283127E+01 1531544E+03 5000000E+02 7416198E+02 1483240E+01 6569792E+00 2688931E+02 3048625E+04
2626129E+00 5873829E+02 2500000E+04 8157818E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3885178E+00 8650254E+04 1800000E+02 9946052E+04 2926875E+04 1524313E+06 1488607E+06 1903056E+05
1334816E+04 6874579E+05 2916000E+06 4938000E+00
CASE NUMBER 250
3488123E+01 1744061E+03 5000000E+02 7582875E+02 1516575E+01 8160258E+00 2729835E+02 3048625E+04
2626129E+00 6278621E+02 2500000E+04 8720307E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
3982721E+00 8844666E+04 1800000E+02 1063398E+05 3139310E+04 1524313E+06 1569655E+06 2034273E+05
1364818E+04 6824588E+05 2916000E+06 5022000E+00
CASE NUMBER 251
3718064E+01 1858932E+03 5000000E+02 7745947E+02 1549195E+01 876414E+00 2788548E+02 3048625E+04
2626129E+00 6692515E+02 2500000E+04 9295140E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
4068381E+00 9024896E+04 1800000E+02 1123498E+05 3146258E+04 1524313E+06 1673128E+06 2168275E+05
1294274E+04 6971370E+05 2916000E+06 5103000E+00
CASE NUMBER 252
3932847E+01 1976424E+03 5000000E+02 7905694E+02 1581139E+01 1038068E+01 2846050E+02 3048625E+04
2626129E+00 7115125E+02 2500000E+04 9882118E+04 5822000E+04 4727032E+01 7621562E+07 1313064E+02
4152274E+00 9221202E+04 1800000E+02 1205075E+05 3557562E+04 1524313E+06 1778781E+06 2305300E+05
1423025E+04 7115125E+05 2916000E+06 5189000E+00
CASE NUMBER 253
0 0 0 0 0 0 3430000E+03
3779645E+00 0 0 5822000E+04 6803361E+010 0 0
0 0 1800000E+020 0 0 0
0 0 2948000E+00 0
CASE NUMBER 254
3535534E+000 0 0 7071068E+00 738208E+00 1272792E+02 3430000E+03
3779645E+00 6363861E+010 0 5822000E+04 6803361E+010 0 0
2672612E+00 4123847E+04 1800000E+02 1212688E+030 0 0 2061923E+04
0 0 3048000E+00 0
CASE NUMBER 255
1028095E+010 0 0 1008889E+01 3881338E+00 1816000E+02 3430000E+03
3779645E+00 1848429E+020 0 5822000E+04 6803361E+010 0 0
3813242E+00 5883841E+04 1800000E+02 3522284E+030 0 0 5888908E+04
0 0 3275000E+00 0
CASE NUMBER 256
1837117E+010 0 0 1224745E+01 6947651E+00 2204541E+02 3430000E+03
3779645E+00 3306811E+020 0 5822000E+04 6803361E+010 0 0
4629100E+00 7142712E+04 1800000E+02 6301312E+030 0 0 1071407E+05
0 0 3474000E+00 0

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TRANSGENERATED
DATA INPUT
CASE NUMBER 257
0. 0. 1414214E+01 1058045E+01 2545584E+02 3430000E+03
3779645E+00 5091169E+02 0. 5832000E+04 6803361E+010 0.
5345225E+00 824763E+04 1800000E+02 5701505E+030 0. 1649539E+05
0 0. 3734000E+00 0. 0. 0. 0. 0.

CASE NUMBER 258
0. 0. 1581138E+01 1494036E+01 2846050E+02 3430000E+03
3779645E+00 7115125E+020 0. 5832000E+04 6803361E+010 0.
5976143E+00 9221202E+04 1800000E+02 1355827E+040 0. 2305300E+05
0 0. 2855000E+00 0. 0. 0. 0. 0.

CASE NUMBER 259
0. 0. 1732051E+01 1983961E+01 3117691E+02 3430000E+03
3779645E+00 9353074E+020 0. 5832000E+04 6803361E+010 0.
6546537E+00 1010132E+05 1800000E+02 1782280E+040 0. 3030396E+05
0 0. 4261000E+00 0. 0. 0. 0. 0.

CASE NUMBER 260
0. 0. 1877181E+01 2500170E+01 3378926E+02 3430000E+03
3779645E+00 1190668E+030 0. 5832000E+04 6803361E+010 0.
7095078E+00 1094772E+05 1800000E+02 2268886E+040 0. 3857768E+05
0 0. 4579000E+00 0. 0. 0. 0. 0.

CASE NUMBER 261
0. 0. 2000000E+01 2022718E+01 3600000E+02 3430000E+03
3779645E+00 1440000E+030 0. 5832000E+04 6803361E+010 0.
7559289E+00 1166400E+05 1800000E+02 2744000E+040 0. 4665600E+05
0 0. 4895000E+00 0. 0. 0. 0. 0.

CASE NUMBER 262
0. 0. 2024646E+01 2137811E+01 3644722E+02 3430000E+03
3779645E+00 1494336E+030 0. 5832000E+04 6803361E+010 0.
7653197E+00 1180890E+05 1800000E+02 2847540E+040 0. 4841649E+05
0 0. 4955000E+00 0. 0. 0. 0. 0.

CASE NUMBER 263
0. 0. 0. 0. 0. 0. 0. 0.
3333333E+000 0. 0. 0. 0. 0. 0. 0.
0. 0. 1800000E+020 0. 0. 0. 0. 0.
0. 0. 2948000E+00 0. 0. 0. 0. 0.

CASE NUMBER 264
0. 0. 7071068E+00 1178511E+00 1272792E+02 7290000E+03
3333333E+00 6383961E+010 0. 5832000E+04 6000000E+010 0.
2357021E+00 4122847E+04 1800000E+02 2577404E+030 0. 2081923E+04
0 0. 3197000E+00 0. 0. 0. 0. 0.

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TRANSGENERATED
DATA INPUT
CASE NUMBER 265
0. 0. 1000000E+01 3333333E+00 1800000E+02 7290000E+03
3333333E+00 1800000E+020 0. 5832000E+04 6000000E+010 0.
3333333E+00 5832000E+04 1800000E+02 3450000E+030 0. 5832000E+04
0 0. 3450000E+00 0. 0. 0. 0. 0.

CASE NUMBER 266
0. 0. 1224745E+01 6123794E+00 2204541E+02 7290000E+03
3333333E+00 3306811E+020 0. 5832000E+04 6000000E+010 0.
4082483E+00 7142712E+04 1800000E+02 1335259E+040 0. 1071407E+05
0 0. 3664000E+00 0. 0. 0. 0. 0.

CASE NUMBER 267
0. 0. 1414214E+01 9420800E+00 2545584E+02 7290000E+03
3333333E+00 5091169E+020 0. 5832000E+04 6000000E+010 0.
4714045E+00 824763E+04 1800000E+02 2061823E+040 0. 1649539E+05
0 0. 3913000E+00 0. 0. 0. 0. 0.

CASE NUMBER 268
0. 0. 1581138E+01 1317618E+01 2846050E+02 7290000E+03
3333333E+00 7115125E+020 0. 5832000E+04 6000000E+010 0.
5270463E+00 9221202E+04 1800000E+02 2881628E+040 0. 2305300E+05
0 0. 4213000E+00 0. 0. 0. 0. 0.

CASE NUMBER 269
0. 0. 1732051E+01 1732051E+01 3117691E+02 7290000E+03
3333333E+00 9353074E+020 0. 5832000E+04 6000000E+010 0.
5773503E+00 1010132E+05 1800000E+02 3787895E+040 0. 3030396E+05
0 0. 4571000E+00 0. 0. 0. 0. 0.

CASE NUMBER 270
0. 0. 1870828E+01 2182633E+01 3367482E+02 7290000E+03
3333333E+00 1178622E+030 0. 5832000E+04 6000000E+010 0.
6236096E+00 1091067E+05 1800000E+02 4773419E+040 0. 3818736E+05
0 0. 4912000E+00 0. 0. 0. 0. 0.

CASE NUMBER 271
0. 0. 1887387E+01 2278840E+01 3415260E+02 7290000E+03
3333333E+00 1229494E+030 0. 5832000E+04 6000000E+010 0.
6324555E+00 1106344E+05 1800000E+02 4979449E+040 0. 3983559E+05
0 0. 4987000E+00 0. 0. 0. 0. 0.

CASE NUMBER 272
0. 0. 0. 0. 0. 0. 0. 0.
3162278E+000 0. 0. 0. 0. 0. 0. 0.
0. 0. 1800000E+020 0. 0. 0. 0. 0.
0. 0. 3015000E+00 0. 0. 0. 0. 0.

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DATA INPUT
CASE NUMBER 273
.353534E+000 0. 0. .7071068E+00 .1118034E+00 .1272792E+02 .1000000E+04
.3162278E+00 .6363961E+010 0. .5832000E+04 .5692100E+010. 0.
.2236068E+00 .4123847E+04 .1800000E+02 .3525334E+030. 0. .2081923E+04
0. 0. 0. .3269000E+00
CASE NUMBER 274
.1000000E+010 0. 0. .1000000E+01 .3162278E+00 .1800000E+02 .1000000E+04
.3162278E+00 .1800000E+020 0. .5832000E+04 .5692100E+010. 0.
.3162278E+00 .5832000E+04 .1800000E+02 .1000000E+040. 0. .5832000E+04
0. 0. 0. .3505000E+00
CASE NUMBER 275
.1837117E+010 0. 0. .1224745E+01 .5809475E+00 .2204541E+02 .1000000E+04
.3162278E+00 .3306811E+020 0. .5832000E+04 .5692100E+010. 0.
.3872983E+00 .7142712E+04 .1800000E+02 .1837117E+040. 0. .1071407E+05
0. 0. 0. .3730000E+00
CASE NUMBER 276
.2828427E+010 0. 0. .1414214E+01 .8944272E+00 .2545584E+02 .1000000E+04
.3162278E+00 .5091189E+020 0. .5832000E+04 .5692100E+010. 0.
.4472136E+00 .8247693E+04 .1800000E+02 .2828427E+040. 0. .1649539E+05
0. 0. 0. .4019000E+00
CASE NUMBER 277
.3552847E+010 0. 0. .1581139E+01 .1250000E+01 .2846050E+02 .1000000E+04
.3162278E+00 .7115125E+020 0. .5832000E+04 .5692100E+010. 0.
.5000000E+00 .5221202E+04 .1800000E+02 .3952847E+040. 0. .2305300E+05
0. 0. 0. .4310000E+00
CASE NUMBER 278
.5196152E+010 0. 0. .1732051E+01 .1642148E+01 .3117691E+02 .1000000E+04
.3162278E+00 .9352074E+020 0. .5832000E+04 .5692100E+010. 0.
.5477226E+00 .1010132E+05 .1800000E+02 .5196152E+040. 0. .3030396E+05
0. 0. 0. .4652000E+00
CASE NUMBER 279
.5458113E+010 0. 0. .1760882E+01 .1726007E+01 .3169227E+02 .1000000E+04
.3162278E+00 .9824604E+020 0. .5832000E+04 .5692100E+010. 0.
.5567764E+00 .1026830E+05 .1800000E+02 .5458113E+040. 0. .3183172E+05
0. 0. 0. .4722000E+00
CASE NUMBER 280
.5724334E+010 0. 0. .1788854E+01 .1810193E+01 .3219938E+02 .1000000E+04
.3162278E+00 .1030380E+030 0. .5832000E+04 .5692100E+010. 0.
.5656854E+00 .1042260E+05 .1800000E+02 .5724334E+040. 0. .3338432E+05
0. 0. 0. .4816000E+00

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DATA INPUT
CASE NUMBER 281
.5994748E+010 0. 0. .1816580E+01 .1895706E+01 .3269862E+02 .1000000E+04
.3162278E+00 .1079055E+030 0. .5832000E+04 .5692100E+010. 0.
.5744543E+00 .1059435E+05 .1800000E+02 .5994748E+040. 0. .3496137E+05
0. 0. 0. .4901000E+00
CASE NUMBER 282
.2886751E+000 0. 0. 0. 0. 0. .1728000E+04
0. 0. .1800000E+020 0. .5832000E+04 .5196152E+010. 0.
0. 0. 0. .3116000E+00
CASE NUMBER 283
.353534E+000 0. 0. .7071068E+00 .1020621E+00 .1272792E+02 .1728000E+04
.2886751E+00 .6363961E+010 0. .5832000E+04 .5196152E+010. 0.
.2041241E+00 .4123847E+04 .1800000E+02 .353534E+030. 0. .2081923E+04
0. 0. 0. .3365000E+00
CASE NUMBER 284
.1000000E+010 0. 0. .1000000E+01 .2886751E+00 .1800000E+02 .1728000E+04
.2886751E+00 .1800000E+020 0. .5832000E+04 .5196152E+010. 0.
.2886751E+00 .5832000E+04 .1800000E+02 .1728000E+040. 0. .5832000E+04
0. 0. 0. .3623000E+00
CASE NUMBER 285
.1837117E+010 0. 0. .1224745E+01 .5302301E+00 .2204541E+02 .1728000E+04
.2886751E+00 .3306811E+020 0. .5832000E+04 .5196152E+010. 0.
.353534E+00 .7142712E+04 .1800000E+02 .1837117E+040. 0. .1071407E+05
0. 0. 0. .3809000E+00
CASE NUMBER 286
.2828427E+010 0. 0. .1414214E+01 .8164966E+00 .2545584E+02 .1728000E+04
.2886751E+00 .5091189E+020 0. .5832000E+04 .5196152E+010. 0.
.4082482E+00 .8247693E+04 .1800000E+02 .2828427E+040. 0. .1649539E+05
0. 0. 0. .4195000E+00
CASE NUMBER 287
.3552847E+010 0. 0. .1581139E+01 .1141089E+01 .2846050E+02 .1728000E+04
.2886751E+00 .7115125E+020 0. .5832000E+04 .5196152E+010. 0.
.4564355E+00 .5221202E+04 .1800000E+02 .3552847E+040. 0. .2305300E+05
0. 0. 0. .4522000E+00
CASE NUMBER 288
.4192274E+010 0. 0. .1612452E+01 .1210224E+01 .2802413E+02 .1728000E+04
.2886751E+00 .7546273E+020 0. .5832000E+04 .5196152E+010. 0.
.4854747E+00 .9402817E+04 .1800000E+02 .4192274E+040. 0. .2444893E+05
0. 0. 0. .4597000E+00

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CASE NUMBER	288	0.	0.	GROUP NUMBER	2	
.443553E+010	0.	0.	.1643168E+01	.1280722E+01	.2957702E+02	.1728000E+04
.2836751E+00	.7985795E+020	0.	.5832000E+04	.5196152E+010	0.	0.
.4743416E+00	.9582954E+04	.1800000E+02	.7666363E+040	0.	0.	.2587298E+05
0.	0.	0.	.4676000E+00	0.	0.	0.
CASE NUMBER	289	0.	0.	GROUP NUMBER	2	
.4685296E+010	0.	0.	.1673320E+01	.1352528E+01	.3011976E+02	.1728000E+04
.2886751E+00	.8435333E+020	0.	.5832000E+04	.5196152E+010	0.	0.
.4830459E+00	.9758803E+04	.1800000E+02	.8096182E+040	0.	0.	.2732465E+05
0.	0.	0.	.4760000E+00	0.	0.	0.
CASE NUMBER	291	0.	0.	GROUP NUMBER	2	
.2626129E+000	0.	0.	0.	0.	0.	.3048625E+04
0.	0.	0.	.5832000E+04	.4727032E+010	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	.3263000E+00	0.	0.	0.
CASE NUMBER	292	0.	0.	GROUP NUMBER	2	
.3535534E+000	0.	0.	.7071068E+00	.9284767E+01	.1272792E+02	.3048625E+04
.2626129E+00	.8363961E+010	0.	.5832000E+04	.4727032E+010	0.	0.
.1856952E+00	.4123847E+04	.1800000E+02	.1077852E+040	0.	0.	.2081923E+04
0.	0.	0.	.3533000E+00	0.	0.	0.
CASE NUMBER	293	0.	0.	GROUP NUMBER	2	
.1000000E+010	0.	0.	.1000000E+01	.2626129E+00	.1800000E+02	.3048625E+04
.2626129E+00	.1800000E+020	0.	.5832000E+04	.4727032E+010	0.	0.
.2626129E+00	.5832000E+04	.1800000E+02	.3048625E+040	0.	0.	.5832000E+04
0.	0.	0.	.2810000E+00	0.	0.	0.
CASE NUMBER	294	0.	0.	GROUP NUMBER	2	
.1837117E+010	0.	0.	.1224745E+01	.4824506E+00	.2204541E+02	.3048625E+04
.2626129E+00	.3306811E+020	0.	.5832000E+04	.4727032E+010	0.	0.
.3216338E+00	.7142712E+04	.1800000E+02	.5800682E+040	0.	0.	.1071407E+05
0.	0.	0.	.4100000E+00	0.	0.	0.
CASE NUMBER	295	0.	0.	GROUP NUMBER	2	
.2626129E+00	0.	0.	.1418214E+01	.7427814E+00	.2545584E+02	.3048625E+04
.2626129E+00	.5091169E+020	0.	.5832000E+04	.4727032E+010	0.	0.
.3713907E+00	.8247693E+04	.1800000E+02	.8672814E+040	0.	0.	.1649538E+05
0.	0.	0.	.4418000E+00	0.	0.	0.
CASE NUMBER	296	0.	0.	GROUP NUMBER	2	
.3043189E+010	0.	0.	.1449138E+01	.7991806E+00	.2608448E+02	.3048625E+04
.2626129E+00	.5477740E+020	0.	.5832000E+04	.4727032E+010	0.	0.
.3805622E+00	.8451371E+04	.1800000E+02	.9277542E+040	0.	0.	.1774788E+05
0.	0.	0.	.4490000E+00	0.	0.	0.

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CASE NUMBER	297	0.	0.	GROUP NUMBER	2	
.3263127E+010	0.	0.	.1483240E+01	.8569392E+00	.2669831E+02	.3048625E+04
.2626129E+00	.5873629E+020	0.	.5832000E+04	.4727032E+010	0.	0.
.2895179E+00	.8650234E+04	.1800000E+02	.9948052E+040	0.	0.	.1903056E+05
0.	0.	0.	.4565000E+00	0.	0.	0.
CASE NUMBER	298	0.	0.	GROUP NUMBER	2	
.3779645E+000	0.	0.	0.	0.	0.	.3430000E+03
0.	0.	0.	.5832000E+04	.8603361E+01	.3430000E+07	.3779645E+02
0.	0.	0.	0.	.3430000E+030	0.	0.
0.	0.	0.	.5832000E+06	.2613000E+00	0.	0.
CASE NUMBER	299	0.	0.	GROUP NUMBER	2	
.3535534E+00	.3535534E+02	.1000000E+03	.7071068E+02	.1336306E+00	.1272792E+02	.3430000E+03
.3779645E+00	.6383981E+01	.1000000E+05	.3535534E+04	.5832000E+04	.8603361E+01	.3430000E+07
.2672612E+00	.4123847E+04	.1800000E+02	.1272688E+03	.6563961E+03	.3430000E+05	.6363961E+05
.1272792E+04	.5832000E+06	.2780000E+00	0.	0.	0.	.2061923E+04
CASE NUMBER	300	0.	0.	GROUP NUMBER	2	
.1000000E+01	.1000000E+03	.1000000E+03	.1000000E+01	.3779645E+00	.1800000E+02	.3430000E+03
.3779645E+00	.1800000E+02	.1000000E+05	.1000000E+05	.5832000E+04	.8603361E+01	.3430000E+07
.3779645E+00	.5832000E+04	.1800000E+02	.3430000E+03	.1800000E+04	.3430000E+05	.1800000E+06
.1800000E+04	.1800000E+06	.5832000E+08	.2935000E+00	0.	0.	.5832000E+04
CASE NUMBER	301	0.	0.	GROUP NUMBER	2	
.1837117E+01	.1837117E+03	.1000000E+03	.1224745E+03	.1224745E+01	.6943651E+00	.2204541E+02
.3779645E+00	.3306811E+02	.1000000E+05	.1837117E+05	.5832000E+04	.8603361E+01	.3430000E+07
.4629100E+00	.7142712E+04	.1800000E+02	.8301312E+03	.3306811E+04	.3430000E+05	.3306811E+06
.2204541E+04	.2204541E+06	.5832000E+06	.3128000E+00	0.	0.	.1071407E+05
CASE NUMBER	302	0.	0.	GROUP NUMBER	2	
.2626129E+00	.2626129E+03	.1000000E+03	.1414214E+03	.1414214E+01	.1069045E+01	.2545584E+02
.3779645E+00	.5091169E+02	.1000000E+05	.2828427E+05	.5832000E+04	.8603361E+01	.3430000E+07
.5345225E+00	.8247693E+04	.1800000E+02	.9701505E+03	.5091169E+04	.3430000E+05	.5091169E+06
.2545584E+04	.2545584E+06	.5832000E+06	.3331000E+00	0.	0.	.1649538E+05
CASE NUMBER	303	0.	0.	GROUP NUMBER	2	
.3852847E+01	.3852847E+03	.1000000E+03	.1581139E+03	.1581139E+01	.1494036E+01	.2846050E+02
.3779645E+00	.7115125E+02	.1000000E+05	.3532847E+05	.5832000E+04	.8603361E+01	.3430000E+07
.5876143E+00	.8221202E+04	.1800000E+02	.1355827E+04	.7115125E+04	.3430000E+05	.7115125E+06
.2846050E+04	.2846050E+06	.5832000E+06	.3587000E+00	0.	0.	.2305300E+05
CASE NUMBER	304	0.	0.	GROUP NUMBER	2	
.5196152E+01	.5196152E+03	.1000000E+03	.1732051E+03	.1732051E+01	.1963961E+01	.3117681E+02
.3779645E+00	.9353074E+02	.1000000E+05	.5196152E+05	.5832000E+04	.8603361E+01	.3430000E+07
.6546537E+00	.1010132E+04	.1800000E+02	.1782280E+04	.9353074E+04	.3430000E+05	.9353074E+06
.3117681E+04	.3117681E+06	.5832000E+06	.3806000E+00	0.	0.	.3030396E+05

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CASE NUMBER	305	GROUP NUMBER	2
5547900E+01	5547900E+03	1000000E-03	1870820E+03
3778445E+00	1178622E+03	1000000E-05	5547900E+05
7071048E+00	1081077E+05	1000000E-02	2245830E+04
3367882E+04	3367882E+06	5832000E-06	4117000E+00
CASE NUMBER	306	GROUP NUMBER	2
5830520E+01	5830520E+03	1000000E-03	1897367E+03
3778445E+00	1228494E+03	1000000E-05	5832000E+04
7171372E+00	1106544E+05	1000000E-02	2342868E+04
3415260E+04	3415260E+06	5832000E-06	4171000E+00
CASE NUMBER	307	GROUP NUMBER	2
7117092E+01	7117092E+03	1000000E-03	1923538E+03
3778445E+00	1281077E+03	1000000E-05	7117092E+05
7278292E+00	1121808E+05	1000000E-02	2441163E+04
3462368E+04	3462368E+06	5832000E-06	4230000E+00
CASE NUMBER	308	GROUP NUMBER	2
7407564E+01	7407564E+03	1000000E-03	1949359E+03
3778445E+00	1333361E+03	1000000E-05	7407564E+05
7367884E+00	1136866E+05	1000000E-02	2540794E+04
3508846E+04	3508846E+06	5832000E-06	4282000E+00
CASE NUMBER	309	GROUP NUMBER	2
7701883E+01	7701883E+03	1000000E-03	1974842E+03
3778445E+00	1386339E+03	1000000E-05	7701883E+05
7444200E+00	1151728E+05	1000000E-02	2441163E+04
3554715E+04	3554715E+06	5832000E-06	4358000E+00
CASE NUMBER	310	GROUP NUMBER	2
0.	0.	1000000E-030	0.
3333333E+000	0.	1000000E-050	5832000E-04
0.	0.	1000000E-020	6000000E+01
0.	0.	5832000E+06	7290000E-07
CASE NUMBER	311	GROUP NUMBER	2
3555534E+00	3555534E+02	1000000E-02	7071048E+02
3333333E+00	3333333E+01	1000000E-05	3555534E+04
3257023E+00	4123847E+04	1000000E-02	2377404E+03
1272792E+04	1272792E+06	5832000E-06	2882000E+00
CASE NUMBER	312	GROUP NUMBER	2
1000000E+01	1000000E+03	1000000E-03	1000000E+03
3333333E+00	1000000E+02	1000000E-05	1000000E+05
3333333E+00	5832000E+04	1000000E-02	7290000E+03
1000000E+04	1000000E+06	5832000E-06	3076000E+00

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CASE NUMBER	313	GROUP NUMBER	2
1827117E+01	1827117E+03	1000000E-03	1224745E+03
3333333E+00	3306811E+02	1000000E-05	1827117E+05
4082482E+00	7142712E+04	1000000E-02	1239259E+04
2204541E+04	2204541E+06	5832000E-06	3278000E+00
CASE NUMBER	314	GROUP NUMBER	2
2828427E+01	2828427E+03	1000000E-03	1414214E+03
3333333E+00	5091169E+02	1000000E-05	2828427E+05
4714045E+00	8247892E+04	1000000E-02	2061932E+04
2545584E+04	2545584E+06	5832000E-06	3501000E+00
CASE NUMBER	315	GROUP NUMBER	2
3952847E+01	3952847E+03	1000000E-03	1581138E+03
3333333E+00	7115125E+02	1000000E-05	3952847E+05
5270483E+00	9221202E+04	1000000E-02	2881626E+04
2846050E+04	2846050E+06	5832000E-06	3763000E+00
CASE NUMBER	316	GROUP NUMBER	2
3198152E+01	3198152E+03	1000000E-03	1732051E+03
3333333E+00	9353074E+02	1000000E-05	3198152E+05
7773503E+00	1010132E+05	1000000E-02	2787985E+04
3117691E+04	3117691E+06	5832000E-06	4072000E+00
CASE NUMBER	317	GROUP NUMBER	2
5458113E+01	5458113E+03	1000000E-03	1760682E+03
3333333E+00	9824604E+02	1000000E-05	5458113E+05
1868829E+00	1028830E+05	1000000E-02	2978965E+04
1169227E+04	1169227E+06	5832000E-06	4139000E+00
CASE NUMBER	318	GROUP NUMBER	2
5724334E+01	5724334E+03	1000000E-03	1760682E+03
3333333E+00	1030280E+02	1000000E-05	5724334E+05
5862840E+00	1043280E+05	1000000E-02	4173040E+04
3219938E+04	3219938E+06	5832000E-06	4212000E+00
CASE NUMBER	319	GROUP NUMBER	2
5994748E+01	5994748E+03	1000000E-03	1816590E+03
3333333E+00	1079055E+02	1000000E-05	5994748E+05
6055301E+00	1059435E+05	1000000E-02	4370171E+04
3269882E+04	3269882E+06	5832000E-06	4284000E+00
CASE NUMBER	320	GROUP NUMBER	2
0.	0.	1000000E-030	0.
3162278E+000	0.	1000000E-050	5832000E-04
0.	0.	1000000E-020	5832100E+01
0.	0.	5832000E+06	1000000E+08

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CASE NUMBER 321	GROUP NUMBER 2
353534E+00	353534E+02
3162278E+00	6363961E+01
2236668E+00	4123047E+04
1272792E+04	1272792E+06
CASE NUMBER 322	GROUP NUMBER 2
1000000E+01	1000000E+03
3162278E+00	1000000E+05
3162278E+00	5832000E+04
1000000E+04	1000000E+06
CASE NUMBER 323	GROUP NUMBER 2
1837117E+01	1837117E+03
3162278E+00	2306811E+02
3872982E+00	7142712E+04
2204541E+04	2204541E+06
CASE NUMBER 324	GROUP NUMBER 2
2828427E+01	2828427E+03
3162278E+00	3091189E+02
4472156E+00	8247693E+04
2545584E+04	2545584E+06
CASE NUMBER 325	GROUP NUMBER 2
3952847E+01	3952847E+03
3162278E+00	7115125E+02
5000000E+00	9221202E+04
2846050E+04	2846050E+06
CASE NUMBER 326	GROUP NUMBER 2
4182374E+01	4182374E+03
3162278E+00	7548373E+02
5095020E+00	9403817E+04
2902413E+04	2902413E+06
CASE NUMBER 327	GROUP NUMBER 2
4435532E+01	4435532E+03
3162278E+00	7985795E+02
5196152E+00	9582954E+04
2957702E+04	2957702E+06
CASE NUMBER 328	GROUP NUMBER 2
4685296E+01	4685296E+03
3162278E+00	8435333E+02
5291502E+00	9758003E+04
3011976E+04	3011976E+06

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CASE NUMBER 329	GROUP NUMBER 2
4938522E+01	4938522E+03
3162278E+00	8889340E+02
5385145E+00	9321538E+04
3065280E+04	3065280E+06
CASE NUMBER 330	GROUP NUMBER 2
5196152E+01	5196152E+03
3162278E+00	9353074E+02
5477226E+00	1010132E+04
3117891E+04	3117891E+06
CASE NUMBER 331	GROUP NUMBER 2
0	0
2886751E+00	1000000E+050
0	1800000E+020
0	5832000E+06
CASE NUMBER 332	GROUP NUMBER 2
353534E+00	353534E+02
2886751E+00	6363961E+01
2061241E+00	4123047E+04
1272792E+04	1272792E+06
CASE NUMBER 333	GROUP NUMBER 2
1000000E+01	1000000E+03
2886751E+00	1000000E+05
2886751E+00	5832000E+04
1000000E+04	1000000E+06
CASE NUMBER 334	GROUP NUMBER 2
1837117E+01	1837117E+03
2886751E+00	2306811E+02
353534E+00	7142712E+04
2204541E+04	2204541E+06
CASE NUMBER 335	GROUP NUMBER 2
2828427E+01	2828427E+03
2886751E+00	3091189E+02
4092483E+00	8247693E+04
2545584E+04	2545584E+06
CASE NUMBER 336	GROUP NUMBER 2
3043189E+01	3043189E+03
2886751E+00	5477740E+02
4182374E+00	8451371E+04
2004482E+04	2004482E+06

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CASE NUMBER	327	GROUP NUMBER	2
3263127E-01	3263127E-03	1000000E-03	1483240E-03
2886751E-00	5873629E-02	1000000E-05	3263127E-05
4281744E-00	8850254E-04	1000000E-02	5638684E-04
2668831E-04	2668831E-06	5832000E-06	3895000E-00
CASE NUMBER	328	GROUP NUMBER	2
3488123E-01	3488123E-03	1000000E-03	1516575E-03
2886751E-00	6278621E-02	1000000E-05	3488123E-05
4377975E-00	8864686E-04	1000000E-02	6027476E-04
2729835E-04	2729835E-06	5832000E-06	3959000E-00
CASE NUMBER	329	GROUP NUMBER	2
3718064E-01	3718064E-03	1000000E-03	1549193E-03
2886751E-00	6692515E-02	1000000E-05	3718064E-05
4472136E-00	9034896E-04	1000000E-02	6424815E-04
2788548E-04	2788548E-06	5832000E-06	4026000E-00
CASE NUMBER	330	GROUP NUMBER	2
3552847E-01	3552847E-03	1000000E-03	1581139E-03
2886751E-00	7115125E-02	1000000E-05	3552847E-05
4544355E-00	9321202E-04	1000000E-02	6830520E-04
2846050E-04	2846050E-06	5832000E-06	4085000E-00
CASE NUMBER	341	GROUP NUMBER	2
0	0	1000000E-030	0
2628129E-000	0	1000000E-050	5832000E-04
0	0	1000000E-020	4727032E-01
0	0	5832000E-06	3048625E-06
CASE NUMBER	342	GROUP NUMBER	2
353534E-00	353534E-02	1000000E-03	7071068E-02
2626129E-00	6363961E-01	1000000E-05	353534E-05
1856953E-00	4123847E-04	1000000E-02	1077852E-04
1272792E-04	1272792E-06	5832000E-06	3172000E-00
CASE NUMBER	343	GROUP NUMBER	2
1000000E-01	1000000E-03	1000000E-03	1000000E-01
2626129E-00	1000000E-05	1000000E-05	5832000E-04
2626129E-00	5832000E-02	1000000E-02	3048625E-04
1000000E-04	1000000E-06	5832000E-06	3424000E-00
CASE NUMBER	344	GROUP NUMBER	2
1827117E-01	1827117E-03	1000000E-03	1224745E-03
2626129E-00	3206811E-02	1000000E-05	1827117E-05
3218338E-00	7142712E-04	1000000E-02	5600832E-04
2204541E-04	2204541E-06	5832000E-06	3691000E-00

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CASE NUMBER	345	GROUP NUMBER	2
2023858E-01	2023858E-03	1000000E-03	1264911E-03
2626129E-00	3642944E-02	1000000E-05	2023858E-05
3321819E-00	7376961E-04	1000000E-02	6169383E-04
2276840E-04	2276840E-06	5832000E-06	3750000E-00
CASE NUMBER	346	GROUP NUMBER	2
2216529E-01	2216529E-03	1000000E-03	1302840E-03
2626129E-00	3988752E-02	1000000E-05	2216529E-05
3424053E-00	7602399E-04	1000000E-02	6757265E-04
2248913E-04	2248913E-06	5832000E-06	3811000E-00
CASE NUMBER	347	GROUP NUMBER	2
2614953E-01	2614953E-03	1000000E-03	1341841E-03
2626129E-00	4324499E-02	1000000E-05	2614953E-05
3523231E-00	7824449E-04	1000000E-02	7382287E-04
2414953E-04	2414953E-06	5832000E-06	3873000E-00
CASE NUMBER	348	GROUP NUMBER	2
2818989E-01	2818989E-03	1000000E-03	1378405E-03
2626129E-00	4716145E-02	1000000E-05	2818989E-05
3619869E-00	8028957E-04	1000000E-02	7994235E-04
2481129E-04	2481129E-06	5832000E-06	3937000E-00
CASE NUMBER	349	GROUP NUMBER	2
0	0	2000000E-030	0
3779645E-000	0	4000000E-050	5832000E-04
0	0	1000000E-020	6803361E-01
0	0	1166400E-07	6860000E-050
CASE NUMBER	350	GROUP NUMBER	2
353534E-00	7071068E-02	2000000E-03	1414214E-03
3779645E-00	8263961E-01	4000000E-05	1414214E-05
2672612E-00	4123847E-04	1000000E-02	1212688E-03
2545584E-04	5891169E-06	1166400E-07	2555000E-00
CASE NUMBER	351	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
3779645E-00	1000000E-02	4000000E-05	5832000E-04
3779645E-00	5832000E-04	1000000E-02	3430000E-03
3600000E-04	7200000E-06	1166400E-07	2705000E-00
CASE NUMBER	352	GROUP NUMBER	2
1827117E-01	1827117E-03	2000000E-03	2449490E-03
3779645E-00	3206811E-02	4000000E-05	7248469E-05
4629100E-00	7142712E-04	1000000E-02	6201312E-03
4409092E-04	8818162E-06	1166400E-07	2883000E-00

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CASE NUMBER	353	GROUP NUMBER	2
2828427E-01	5856854E-03	2000000E-03	2828427E-03
3779645E-00	5091168E-02	4000000E-05	1131371E-06
5345225E-00	8247693E-04	1800000E-02	9701505E-03
5091168E-04	1018234E-07	1166400E-07	3042000E-00
CASE NUMBER	354	GROUP NUMBER	2
3952847E-01	7905894E-03	2000000E-03	3162278E-03
3779645E-00	7115125E-02	4000000E-05	1581139E-06
5976143E-00	8221202E-04	1800000E-02	1355827E-04
5682100E-04	1138420E-07	1166400E-07	3253000E-00
CASE NUMBER	355	GROUP NUMBER	2
5196152E-01	1039230E-04	2000000E-03	3464102E-03
3779645E-00	8353074E-02	4000000E-05	2078461E-06
6546537E-00	1010132E-05	1800000E-02	1782280E-04
6235383E-04	1247077E-07	1166400E-07	3308000E-00
CASE NUMBER	356	GROUP NUMBER	2
6547800E-01	1309580E-04	2000000E-03	3741657E-03
3779645E-00	1178622E-02	4000000E-05	2619160E-06
7071082E-00	1091047E-05	1800000E-02	2245930E-04
6734982E-04	1346997E-07	1166400E-07	3797000E-00
CASE NUMBER	357	GROUP NUMBER	2
6830520E-01	1366104E-04	2000000E-03	3794733E-03
3779645E-00	1229444E-03	4000000E-05	2722208E-06
7171372E-00	1106544E-05	1800000E-02	2342868E-04
6830520E-04	1366104E-07	1166400E-07	3849000E-00
CASE NUMBER	358	GROUP NUMBER	2
7117082E-01	1423418E-04	2000000E-03	3847077E-03
3779645E-00	1210777E-03	4000000E-05	2846837E-06
7270282E-00	1121800E-05	1800000E-02	2441163E-04
6924738E-04	1324948E-07	1166400E-07	3905000E-00
CASE NUMBER	359	GROUP NUMBER	2
0.	0.	2000000E-030	0.
3333333E-000	0.	4000000E-050	5832000E-04
0.	0.	1800000E-020	6000000E-01
0.	0.	0.	2916000E-08
CASE NUMBER	360	GROUP NUMBER	2
0.	0.	1166400E-07	2521000E-00
0.	0.	0.	0.
0.	0.	0.	0.
CASE NUMBER	361	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3333333E-00	6363861E-01	4000000E-05	1414214E-05
2357023E-00	4123847E-04	1800000E-02	2577404E-03
2545584E-04	5091168E-06	1166400E-07	2651000E-00

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CASE NUMBER	361	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-03
3333333E-00	4000000E-05	4000000E-05	5832000E-04
3333333E-00	5832000E-04	1800000E-02	7200000E-06
3600000E-04	7200000E-06	1166400E-07	2819000E-00
CASE NUMBER	362	GROUP NUMBER	2
1837117E-01	3674235E-03	2000000E-03	2449490E-03
3333333E-00	3306811E-02	4000000E-05	7348468E-05
4082483E-00	7142712E-04	1800000E-02	1339259E-04
4409082E-04	8818163E-06	1166400E-07	3009000E-00
CASE NUMBER	363	GROUP NUMBER	2
2828427E-01	5856854E-03	2000000E-03	2828427E-03
3333333E-00	5091168E-02	4000000E-05	1131371E-06
4714045E-00	8247693E-04	1800000E-02	2081823E-04
5091168E-04	1018234E-07	1166400E-07	3228000E-00
CASE NUMBER	364	GROUP NUMBER	2
3952847E-01	7905894E-03	2000000E-03	3162278E-03
3333333E-00	7115125E-02	4000000E-05	1581139E-06
5270463E-00	8221202E-04	1800000E-02	2881626E-04
5682100E-04	1138420E-07	1166400E-07	3472000E-00
CASE NUMBER	365	GROUP NUMBER	2
5196152E-01	1039230E-04	2000000E-03	3464102E-03
3333333E-00	8353074E-02	4000000E-05	2078461E-06
5773503E-00	1010132E-05	1800000E-02	1782280E-04
6235383E-04	1247077E-07	1166400E-07	3761000E-00
CASE NUMBER	366	GROUP NUMBER	2
5458113E-01	1091823E-04	2000000E-03	3521363E-03
3333333E-00	9824604E-02	4000000E-05	2182245E-06
3668938E-00	1026830E-05	1800000E-02	3978965E-04
6238454E-04	1267897E-07	1166400E-07	3824000E-00
CASE NUMBER	367	GROUP NUMBER	2
0.	0.	2000000E-030	0.
3162278E-000	0.	4000000E-050	5832000E-04
0.	0.	1800000E-020	6000000E-01
0.	0.	0.	2000000E-060
CASE NUMBER	368	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3162278E-00	6363861E-01	4000000E-05	1414214E-05
2356068E-00	4123847E-04	1800000E-02	3535534E-03
2545584E-04	5091168E-06	1166400E-07	2701000E-00

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CASE NUMBER 369	GROUP NUMBER 2
1000000E-01	2000000E-03
3162278E-00	1800000E-02
3162278E-00	5832000E-04
3162278E-00	5692100E-01
3600000E-04	2000000E-06
1166400E-07	2000000E-06
CASE NUMBER 370	GROUP NUMBER 2
1837117E-01	2000000E-03
3162278E-00	1800000E-02
3872863E-00	1837117E-04
4409082E-04	1166400E-07
CASE NUMBER 371	GROUP NUMBER 2
2828427E-01	2000000E-03
3162278E-00	1800000E-02
4472136E-00	1800000E-02
5091168E-04	1166400E-07
CASE NUMBER 372	GROUP NUMBER 2
3852867E-01	2000000E-03
3162278E-00	1800000E-02
5090000E-00	1800000E-02
5692100E-04	1166400E-07
CASE NUMBER 373	GROUP NUMBER 2
4192274E-01	2000000E-03
3162278E-00	1800000E-02
3899020E-00	1800000E-02
5004828E-04	1166400E-07
CASE NUMBER 374	GROUP NUMBER 2
4436553E-01	2000000E-03
3162278E-00	1800000E-02
5196152E-00	1800000E-02
5915004E-04	1166400E-07
CASE NUMBER 375	GROUP NUMBER 2
4695288E-01	2000000E-03
3162278E-00	1800000E-02
5291503E-00	1800000E-02
6023552E-04	1166400E-07
CASE NUMBER 376	GROUP NUMBER 2
0.	2000000E-03
2886751E-00	1800000E-02
0.	1800000E-02
0.	1166400E-07

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CASE NUMBER 377	GROUP NUMBER 2
3535534E-00	2000000E-03
2866751E-00	1800000E-02
2041241E-00	1800000E-02
2545584E-04	1166400E-07
CASE NUMBER 378	GROUP NUMBER 2
1000000E-01	2000000E-03
2886751E-00	1800000E-02
2886751E-00	1800000E-02
3000000E-04	1166400E-07
CASE NUMBER 379	GROUP NUMBER 2
1837117E-01	2000000E-03
2886751E-00	1800000E-02
3535534E-00	1800000E-02
4409082E-04	1166400E-07
CASE NUMBER 380	GROUP NUMBER 2
2828427E-01	2000000E-03
2886751E-00	1800000E-02
4002862E-00	1800000E-02
5091168E-04	1166400E-07
CASE NUMBER 381	GROUP NUMBER 2
3043186E-01	2000000E-03
2886751E-00	1800000E-02
4183100E-00	1800000E-02
5216898E-04	1166400E-07
CASE NUMBER 382	GROUP NUMBER 2
3283127E-01	2000000E-03
2886751E-00	1800000E-02
4201746E-00	1800000E-02
5329663E-04	1166400E-07
CASE NUMBER 383	GROUP NUMBER 2
0.	2000000E-03
2626128E-00	1800000E-02
0.	1800000E-02
0.	1166400E-07
CASE NUMBER 384	GROUP NUMBER 2
3535534E-00	2000000E-03
2886751E-00	1800000E-02
1856853E-00	1800000E-02
2545584E-04	1166400E-07

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CASE NUMBER	385	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
2626128E-00	1800000E-02	4000000E-05	5832000E-04
2626128E-00	5832000E-04	1800000E-02	3048625E-04
3600000E-04	7200000E-06	1166400E-07	3173000E-09
CASE NUMBER	386	GROUP NUMBER	2
1237117E-01	3674233E-03	2000000E-03	2448490E-05
2626128E-00	3306811E-02	4000000E-05	7348468E-05
3216338E-00	7142712E-04	1800000E-02	5600682E-04
4409082E-04	8818163E-06	1166400E-07	3419000E-00
CASE NUMBER	387	GROUP NUMBER	2
2023858E-01	4047715E-03	2000000E-03	2529822E-03
2626128E-00	3642944E-02	4000000E-05	8095431E-05
3221819E-00	7376961E-04	1800000E-02	6169983E-04
4553680E-04	9107360E-06	1166400E-07	3475000E-00
CASE NUMBER	388	GROUP NUMBER	2
0	0	5000000E-020	0
1779645E-000	0	2500000E-040	0
0	0	3600000E-020	0
0	0	2332800E-07	2928000E-00
CASE NUMBER	389	GROUP NUMBER	2
3535534E-00	1767767E-02	5000000E-02	3535534E-02
1779645E-00	1272792E-02	2500000E-04	8828835E-03
2672612E-00	3299077E-05	1800000E-02	1212688E-03
1272792E-04	6383961E-05	2332800E-07	3129000E-00
CASE NUMBER	390	GROUP NUMBER	2
1000000E-01	5000000E-02	5000000E-02	5000000E-02
1779645E-00	3600000E-02	2500000E-04	2500000E-04
1779645E-00	4665600E-05	1800000E-02	3430000E-03
1800000E-04	9000000E-05	2332800E-07	3347000E-00
CASE NUMBER	391	GROUP NUMBER	2
1925200E-01	9628448E-02	5000000E-02	6220167E-02
1779645E-00	6931043E-02	2500000E-04	4812224E-04
4702004E-00	5804162E-05	1800000E-02	6603744E-03
2239260E-04	1119630E-06	2332800E-07	3605000E-00
CASE NUMBER	392	GROUP NUMBER	2
2828427E-01	1414214E-03	5000000E-02	7071068E-02
1779645E-00	1018234E-03	2500000E-04	7071068E-04
3345225E-00	8598155E-05	1800000E-02	9701505E-03
2545584E-04	1272792E-06	2332800E-07	3864000E-00

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CASE NUMBER	393	GROUP NUMBER	2
1952847E-01	9784242E-03	5000000E-02	7905696E-02
1779645E-00	1423025E-03	2500000E-04	9882118E-04
5976143E-00	7376961E-05	1800000E-02	1355827E-04
2846050E-04	1423025E-06	2332800E-07	4193000E-00
CASE NUMBER	394	GROUP NUMBER	2
5196152E-01	2598078E-03	5000000E-02	8660254E-02
1779645E-00	1870615E-03	2500000E-04	1299038E-05
5546537E-00	8081058E-05	1800000E-02	1782280E-04
3117891E-04	1558846E-06	2332800E-07	4488000E-00
CASE NUMBER	395	GROUP NUMBER	2
6547900E-01	3273950E-03	5000000E-02	9354143E-02
1779645E-00	2357244E-03	2500000E-04	1826975E-05
7071068E-00	8728538E-05	1800000E-02	2245930E-04
3367492E-04	1683746E-06	2332800E-07	4844000E-00
CASE NUMBER	396	GROUP NUMBER	2
8000000E-01	4000000E-03	5000000E-02	1000000E-03
1779645E-00	2880000E-03	2500000E-04	2000000E-05
7535289E-00	9331209E-05	1800000E-02	2744000E-04
2600000E-04	1800000E-06	2332800E-07	5174000E-00
CASE NUMBER	397	GROUP NUMBER	2
8301867E-01	4150934E-03	5000000E-02	1012423E-03
1779645E-00	2988672E-03	2500000E-04	2075447E-05
7652197E-00	9447120E-05	1800000E-02	2847540E-04
3644722E-04	1822261E-06	2332800E-07	5285000E-00
CASE NUMBER	398	GROUP NUMBER	2
8607439E-01	4303719E-03	5000000E-02	1024695E-03
1779645E-00	3698679E-03	2500000E-04	2151860E-05
774967E-00	9561635E-05	1800000E-02	2952351E-04
2888902E-04	1844651E-06	2332800E-07	5401000E-00
CASE NUMBER	399	GROUP NUMBER	2
0	0	5000000E-020	0
3333333E-000	0	2500000E-040	0
0	0	3600000E-020	0
0	0	2332800E-07	3018000E-00
CASE NUMBER	400	GROUP NUMBER	2
3535534E-00	1767767E-02	5000000E-02	3535534E-02
1779645E-00	1272792E-02	2500000E-04	8828835E-03
2237022E-00	3299077E-05	1800000E-02	1212688E-03
1272792E-04	6383961E-05	2332800E-07	3129000E-00

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CASE NUMBER	401	GROUP NUMBER	2
1000000E-01	5000000E-02	5000000E-02	5000000E-02
3333333E-00	2500000E-04	2500000E-04	2500000E-04
3333333E-00	4665600E-05	3800000E-02	7290000E-03
1800000E-04	8000000E-05	2332800E-07	3556000E-00
CASE NUMBER	402	GROUP NUMBER	2
1837117E-01	8185587E-02	5000000E-02	6123724E-02
3333333E-00	6613622E-02	2500000E-04	4592793E-04
4082483E-00	5714170E-05	3800000E-02	1339259E-04
2204541E-04	1102270E-06	2332800E-07	3848000E-00
CASE NUMBER	403	GROUP NUMBER	2
2828427E-01	1414214E-02	5000000E-02	7071068E-02
3333333E-00	1018234E-02	2500000E-04	7071068E-04
4714043E-00	6598155E-05	3800000E-02	2061923E-04
2545584E-04	1272782E-06	2332800E-07	4131000E-00
CASE NUMBER	404	GROUP NUMBER	2
3952847E-01	1976424E-02	5000000E-02	7905694E-02
3333333E-00	1422025E-02	2500000E-04	8882118E-04
5270463E-00	7376981E-05	3800000E-02	2881626E-04
2846050E-04	1423025E-06	2332800E-07	4395000E-00
CASE NUMBER	405	GROUP NUMBER	2
5196152E-01	2598076E-03	5000000E-02	8660254E-02
3333333E-00	1870615E-03	2500000E-04	1299038E-05
5773503E-00	8081056E-05	3800000E-02	2787992E-04
3117691E-04	1558846E-06	2332800E-07	4778000E-00
CASE NUMBER	406	GROUP NUMBER	2
6547900E-01	3273950E-03	5000000E-02	9354143E-02
3333333E-00	2357244E-03	2500000E-04	1628975E-05
6238096E-00	8728528E-05	3800000E-02	4773418E-04
3367892E-04	1683746E-06	2332800E-07	5189000E-00
CASE NUMBER	407	GROUP NUMBER	2
6830520E-01	3415260E-02	5000000E-02	9486833E-02
3333333E-00	2458887E-03	2500000E-04	1707830E-05
6324555E-00	8852354E-05	3800000E-02	4979448E-04
3415260E-04	1707630E-06	2332800E-07	5215000E-00
CASE NUMBER	408	GROUP NUMBER	2
0	0	5000000E-020	0
3162278E-000	0	2500000E-040	0
0	0	3800000E-020	0
0	0	2332800E-07	3108000E-00

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DATA INPUT

CASE NUMBER	409	GROUP NUMBER	2
3325534E-00	1757767E-02	5000000E-02	3535534E-02
3162278E-00	1272782E-02	2500000E-04	8882118E-04
2236048E-00	3299077E-05	3800000E-02	3535534E-03
1272782E-04	8263961E-05	2332800E-07	3382000E-00
CASE NUMBER	410	GROUP NUMBER	2
1000000E-01	5000000E-02	5000000E-02	5000000E-02
3162278E-00	3800000E-02	2500000E-04	2500000E-04
3162278E-00	4665600E-05	3800000E-02	1000000E-04
1000000E-04	5000000E-05	2332800E-07	2666000E-00
CASE NUMBER	411	GROUP NUMBER	2
1837117E-01	8185587E-02	5000000E-02	6123724E-02
3162278E-00	6613622E-02	2500000E-04	4592793E-04
3872983E-00	5714170E-05	3800000E-02	1837117E-04
2204541E-04	1102270E-06	2332800E-07	3954000E-00
CASE NUMBER	412	GROUP NUMBER	2
2778070E-01	1289025E-03	5000000E-02	7071068E-02
3162278E-00	1000105E-03	2500000E-04	8945175E-04
4445436E-00	6598155E-05	3800000E-02	2778070E-04
250387E-04	1265182E-06	2332800E-07	4210000E-00
CASE NUMBER	413	GROUP NUMBER	2
3952847E-01	1976424E-03	5000000E-02	7905694E-02
3162278E-00	1422025E-02	2500000E-04	8882118E-04
5000000E-00	7376981E-05	3800000E-02	2952847E-04
2846050E-04	1423025E-06	2332800E-07	4528000E-00
CASE NUMBER	414	GROUP NUMBER	2
5196152E-01	2598076E-03	5000000E-02	8660254E-02
3162278E-00	1870615E-03	2500000E-04	1299038E-05
5477258E-00	8081056E-05	3800000E-02	5196152E-04
3117691E-04	1558846E-06	2332800E-07	4953000E-00
CASE NUMBER	415	GROUP NUMBER	2
5458113E-01	2729057E-03	5000000E-02	8802408E-02
3162278E-00	1964921E-03	2500000E-04	1344528E-05
5567764E-00	8214636E-05	3800000E-02	5458113E-04
3169227E-04	1584614E-06	2332800E-07	5034000E-00
CASE NUMBER	416	GROUP NUMBER	2
5726334E-01	2662167E-03	5000000E-02	8944272E-02
3162278E-00	2068780E-03	2500000E-04	1831084E-05
5684854E-00	9246079E-05	3800000E-02	5726334E-04
3219928E-04	1608969E-06	2332800E-07	5147000E-00

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DATA INPUT

CASE NUMBER 417	GROUP NUMBER 2
5994748E+01 2997374E+03 5000000E+02 8082851E+02 1816580E+01 1895706E+01 6539725E+02 1000000E+04	
3182278E+00 2158109E+03 2500000E+04 1498687E+03 4665600E+05 1138420E+02 2500000E+07 1581138E+02	
5744563E+00 8475483E+05 3600000E+02 5994748E+04 1079055E+05 5000000E+05 5395273E+06 2796908E+06	
3289862E+04 1634931E+06 2332800E+07 5232000E+00	
CASE NUMBER 418	GROUP NUMBER 2
5263280E+01 3134645E+03 5000000E+02 8219544E+02 1843909E+01 1982524E+01 6438072E+02 1000000E+04	
3142278E+00 2258944E+03 2500000E+04 1547323E+05 4665600E+05 1138420E+02 2500000E+07 1581138E+02	
5830952E+00 8602941E+05 3600000E+02 6268290E+04 1128472E+05 5000000E+05 5642361E+06 2825000E+06	
3319036E+04 1658518E+06 2332800E+07 5332000E+00	
CASE NUMBER 419	GROUP NUMBER 2
0 0 5000000E+020 0 0 0 1728000E+04	
2886751E+000 2500000E+040 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
0 0 3600000E+020 0 0 0 0	
0 0 2332800E+07 3263000E+00	
CASE NUMBER 420	GROUP NUMBER 2
3525534E+00 1767767E+02 5000000E+02 3515534E+02 7071068E+00 1020621E+00 2545584E+02 1728000E+04	
2886751E+00 1272792E+02 2500000E+04 8828835E+03 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
2041241E+00 3298077E+05 3600000E+02 6109403E+03 6363961E+03 8640000E+05 3181981E+05 1649538E+05	
1272792E+04 6363961E+05 2332800E+07 3528000E+00	
CASE NUMBER 421	GROUP NUMBER 2
1000000E+01 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2886751E+00 3600000E+02 1728000E+04	
2886751E+00 3600000E+02 2500000E+04 2500000E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
2886751E+00 4665600E+05 3600000E+02 1728000E+04 1800000E+04 8640000E+05 8000000E+05 4665600E+05	
1800000E+04 9000000E+05 2332800E+07 3820000E+00	
CASE NUMBER 422	GROUP NUMBER 2
1837117E+01 9185587E+02 5000000E+02 6123724E+02 1224745E+01 5303301E+00 4409082E+02 1728000E+04	
2886751E+00 6613622E+02 2500000E+04 4582793E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
3525534E+00 5714170E+05 3600000E+02 3174539E+04 2306811E+04 8640000E+05 1653406E+06 8571255E+05	
2204541E+04 1102270E+06 2332800E+07 4092000E+00	
CASE NUMBER 423	GROUP NUMBER 2
2828427E+01 1414214E+03 5000000E+02 7071068E+02 1414214E+01 8164986E+00 5091169E+02 1728000E+04	
2886751E+00 1118234E+03 2500000E+04 7071068E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
4082843E+00 8598155E+05 3600000E+02 4887522E+04 5091169E+04 8640000E+05 2545584E+06 1319631E+06	
2545584E+04 1272792E+06 2332800E+07 4405000E+00	
CASE NUMBER 424	GROUP NUMBER 2
3952847E+01 1678424E+03 5000000E+02 7805694E+02 1581138E+01 1141089E+01 5692100E+02 1728000E+04	
2886751E+00 1423025E+03 2500000E+04 8882118E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
4564355E+00 7376961E+05 3600000E+02 6830520E+04 7115125E+04 8640000E+05 3557562E+06 1844240E+06	
2846050E+04 1423025E+06 2332800E+07 4796000E+00	

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DATA INPUT

CASE NUMBER 425	GROUP NUMBER 2
4192374E+01 2096187E+03 5000000E+02 8082258E+02 1612452E+01 1210234E+01 5804826E+02 1728000E+04	
2886751E+00 1509255E+03 2500000E+04 1048094E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
4654747E+00 7523054E+05 3600000E+02 7244422E+04 7548273E+04 8640000E+05 3773137E+06 1955994E+06	
2902413E+04 1451206E+06 2332800E+07 4892000E+00	
CASE NUMBER 426	GROUP NUMBER 2
4028553E+01 2218276E+03 5000000E+02 8215838E+02 1643168E+01 1280722E+01 5915404E+02 1728000E+04	
2886751E+00 1587158E+03 2500000E+04 1108138E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
4749418E+00 7868963E+05 3600000E+02 7668383E+04 7869795E+04 8640000E+05 3982897E+06 2068918E+06	
2657702E+04 1478851E+06 2332800E+07 4992000E+00	
CASE NUMBER 427	GROUP NUMBER 2
4495294E+01 2342648E+03 5000000E+02 8366600E+02 1673320E+01 1352528E+01 6023952E+02 1728000E+04	
2886751E+00 1686707E+02 2500000E+04 1171324E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
4830459E+00 7807042E+05 3600000E+02 8096192E+04 8432533E+04 8640000E+05 4216787E+06 2185672E+06	
3011976E+04 1505988E+06 2332800E+07 5081000E+00	
CASE NUMBER 428	GROUP NUMBER 2
4938522E+01 2489261E+03 5000000E+02 8514693E+02 1702939E+01 1425829E+01 6130579E+02 1728000E+04	
2886751E+00 1777848E+03 2500000E+04 1254631E+05 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
4915840E+00 7945231E+05 3600000E+02 8533756E+04 8882340E+04 8640000E+05 4444670E+06 2304117E+06	
3095290E+04 1522845E+06 2332800E+07 5176000E+00	
CASE NUMBER 429	GROUP NUMBER 2
0 0 5000000E+020 0 0 0 3048625E+04	
2626128E+000 2500000E+040 4665600E+05 9454063E+01 7621562E+07 1210844E+02	
0 0 3600000E+020 0 0 0 0	
0 0 2332800E+07 3393000E+00	
CASE NUMBER 430	GROUP NUMBER 2
3535534E+00 1767767E+02 5000000E+02 3515534E+02 7071068E+00 1020621E+00 2545584E+02 1728000E+04	
2826120E+00 1272792E+02 2500000E+04 8828835E+03 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
1854953E+00 3298077E+05 3600000E+02 1077852E+04 6363961E+03 8640000E+05 3181981E+05 1649538E+05	
1272792E+04 6363961E+05 2332800E+07 3603000E+00	
CASE NUMBER 431	GROUP NUMBER 2
1000000E+01 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2626128E+00 3600000E+02 3048625E+04	
2826120E+00 3600000E+02 2500000E+04 2500000E+04 4665600E+05 9454063E+01 7621562E+07 1310844E+02	
2626120E+00 4665600E+05 3600000E+02 3048625E+04 1800000E+04 1524313E+06 8000000E+05 4665600E+05	
1800000E+04 9000000E+05 2332800E+07 3997000E+00	
CASE NUMBER 432	GROUP NUMBER 2
1657117E+01 9185587E+02 5000000E+02 6123724E+02 1224745E+01 5303301E+00 4409082E+02 1728000E+04	
2826120E+00 6613622E+02 2500000E+04 4582793E+04 4665600E+05 1038230E+02 4320000E+07 1443376E+02	
3716338E+00 5714170E+05 3600000E+02 5600882E+04 2306811E+04 8640000E+05 1653406E+06 8571255E+05	
2204541E+04 1102270E+06 2332800E+07 4302000E+00	

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DATA INPUT
CASE NUMBER 433
.2626427E+01 .1414214E+03 .5000000E+02 .7071068E+02 .1414214E+01 .7427814E+00 .5091169E+02 .3048625E+04
.2626129E+00 .1018234E+03 .2500000E+04 .7071068E+04 .4665600E+05 .9454063E+01 .7621562E+07 .1313064E+02
.3713907E+00 .6588155E+05 .3600000E+02 .8622814E+04 .5091169E+04 .1524313E+06 .2545584E+06 .1319631E+06
.2545584E+04 .1272792E+06 .2328000E+07 .4671000E+00
CASE NUMBER 434
.3042189E+01 .1521595E+03 .5000000E+02 .7245683E+02 .1448138E+01 .7991806E+00 .5216895E+02 .3048625E+04
.2626129E+00 .1085548E+03 .2500000E+04 .7607872E+04 .4665600E+05 .9454063E+01 .7621562E+07 .1313064E+02
.3805622E+00 .6781097E+05 .3600000E+02 .8277542E+04 .5477740E+04 .1524313E+06 .2728670E+06 .1419830E+06
.2608446E+04 .1304224E+06 .2328000E+07 .4761000E+00
CASE NUMBER 435
.3262127E+01 .1631564E+03 .5000000E+02 .7415188E+02 .1483240E+01 .8569292E+00 .5229663E+02 .3048625E+04
.2626129E+00 .1174726E+03 .2500000E+04 .8157818E+04 .4665600E+05 .9454063E+01 .7621562E+07 .1313064E+02
.3895178E+00 .6920203E+05 .3600000E+02 .9948052E+04 .5873629E+04 .1524313E+06 .2936815E+06 .1522445E+06
.2689831E+04 .1334816E+06 .2328000E+07 .4856000E+00
CASE NUMBER 436
0 0 0 0 0 0 0 .3430000E+03
.3779645E+00 0 0 0 4665600E+05 .1360672E+020 0 0
0 0 .3600000E+020 0 0 0
0 0 0 .2747000E+00
CASE NUMBER 437
.353534E+00 0 0 0 .7071068E+00 .1338306E+00 .2545584E+02 .3430000E+03
.3779645E+00 .1272792E+020 0 4665600E+05 .1360672E+020 0
.2672612E+00 .3289077E+05 .3600000E+02 .1212888E+030 .2919000E+00 0 0 .1649539E+05
0 0 0 0
CASE NUMBER 438
.1000000E+010 0 0 0 .1000000E+01 .3779645E+00 .3600000E+02 .3430000E+03
.3779645E+00 .3600000E+020 0 4665600E+05 .1360672E+020 0
.3779645E+00 .4665600E+05 .3600000E+02 .3430000E+030 .3168000E+00 0 0 .4665600E+05
0 0 0 0
CASE NUMBER 439
.1837117E+010 0 0 0 .1224745E+01 .6943651E+00 .4409082E+02 .3430000E+03
.3779645E+00 .6813822E+020 0 4665600E+05 .1360672E+020 0
.4829100E+00 .5714170E+05 .3600000E+02 .6301312E+030 .3400000E+00 0 0 .8571255E+05
0 0 0 0
CASE NUMBER 440
.2328427E+010 0 0 0 .1414214E+01 .1068045E+01 .5091169E+02 .3430000E+03
.3779645E+00 .1018224E+030 0 4665600E+05 .1360672E+020 0
.5345225E+00 .6588155E+05 .3600000E+02 .9701505E+030 0 0 .1319631E+06
0 0 0 0 .3822000E+00

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TRANSGENERATED
DATA INPUT
CASE NUMBER 441
.3518014E+010 0 0 0 .1576615E+01 .1481248E+01 .5675813E+02 .3430000E+03
.3779645E+00 .1410845E+030 0 4665600E+05 .1360672E+020 0
.5858044E+00 .7355854E+05 .3600000E+02 .1344222E+040 .3879000E+00 0 0 .1828455E+06
0 0 0 0
CASE NUMBER 442
.5196152E+010 0 0 0 .1732051E+01 .1983961E+01 .6235383E+02 .3430000E+03
.3779645E+00 .1870615E+030 0 4665600E+05 .1360672E+020 0
.6546537E+00 .8081056E+05 .3600000E+02 .1782280E+040 .4187000E+00 0 0 .2424317E+06
0 0 0 0
CASE NUMBER 443
.8547400E+010 0 0 0 .1870829E+01 .2474874E+01 .6734983E+02 .3430000E+03
.3779645E+00 .2357244E+030 0 4665600E+05 .1360672E+020 0
.7071068E+00 .8728528E+05 .3600000E+02 .2245930E+040 .4523000E+00 0 0 .3054988E+06
0 0 0 0
CASE NUMBER 444
.8820520E+010 0 0 0 .1897367E+01 .2581694E+01 .6830520E+02 .3430000E+03
.3779645E+00 .2458887E+030 0 4665600E+05 .1360672E+020 0
.7171722E+00 .8852354E+05 .3600000E+02 .2342888E+040 .4580000E+00 0 0 .3186847E+06
0 0 0 0
CASE NUMBER 445
.7117092E+010 0 0 0 .1923538E+01 .2690008E+01 .6924738E+02 .3430000E+03
.3779645E+00 .2562153E+030 0 4665600E+05 .1360672E+020 0
.7270292E+00 .8974461E+05 .3600000E+02 .2441163E+040 .4641000E+00 0 0 .3320550E+06
0 0 0 0
CASE NUMBER 446
.7407584E+010 0 0 0 .1948259E+01 .2799796E+01 .7017692E+02 .3430000E+03
.3779645E+00 .2688723E+030 0 4665600E+05 .1360672E+020 0
.7367884E+00 .9094926E+05 .3600000E+02 .2540794E+040 .4704000E+00 0 0 .3458073E+06
0 0 0 0
CASE NUMBER 447
.7701882E+010 0 0 0 .1974842E+01 .2911038E+01 .7109430E+02 .3430000E+03
.3779645E+00 .2772678E+030 0 4665600E+05 .1360672E+020 0
.7464200E+00 .9213822E+05 .3600000E+02 .2641746E+040 .4770000E+00 0 0 .3593280E+06
0 0 0 0
CASE NUMBER 448
.8000000E+010 0 0 0 .2000000E+01 .3023716E+01 .7200000E+02 .3430000E+03
.3779645E+00 .2880000E+030 0 4665600E+05 .1360672E+020 0
.7559289E+00 .9331200E+05 .3600000E+02 .2744000E+040 .4838000E+00 0 0 .3732480E+06
0 0 0 0

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RAN$GENERATED
DATA INPUT
CASE NUMBER 457
.5724334E+010 0. 0. 1.78854E+01 1.90811E+01 6438874E+02 7290000E+03
.3333333E+00 2060760E+030 4665600E+05 1.200000E+020 0. 2670745E+06
.5962848E+00 8346079E+05 3600000E+02 4173040E+040 0. 4601000E+00
0. 0. 0. 0. 0. 0.
CASE NUMBER 458
.5894748E+010 0. 0. 1.816580E+01 1.988249E+01 4539725E+02 7290000E+03
.3333333E+00 2158109E+030 4665600E+05 1.200000E+020 0. 2798909E+06
.6055301E+00 8475483E+05 3800000E+02 4370171E+040 0. 4485000E+00
0. 0. 0. 0. 0. 0.
CASE NUMBER 459
.8269290E+010 0. 0. 1.843908E+01 2.069763E+01 6638072E+02 7290000E+03
.3333333E+00 2258944E+030 4665600E+05 1.200000E+020 0. 2925000E+06
.6146383E+00 8602941E+05 3600000E+02 4570313E+040 0. 4770000E+00
0. 0. 0. 0. 0. 0.
CASE NUMBER 460
.6547600E+010 0. 0. 1.870828E+01 2.182633E+01 6734983E+02 7290000E+03
.3333333E+00 2357244E+030 4665600E+05 1.200000E+020 0. 3054988E+06
.6238096E+00 8728538E+05 3600000E+02 4773418E+040 0. 4855000E+00
0. 0. 0. 0. 0. 0.
CASE NUMBER 461
.3182278E+000 0. 0. 0. 0. 0. 1.000000E+04
.3182278E+000 0. 0. 4665600E+05 1.138420E+020 0. 0.
0. 0. 3600000E+020 0. 0. 0.
0. 0. 0. 2942000E+00 0. 0.
CASE NUMBER 462
.3535534E+000 0. 0. 7.071068E+00 1.118030E+00 2545584E+02 1.000000E+04
.3182278E+00 1.727293E+020 4665600E+05 1.138420E+020 0. 0.
.2238088E+00 3.299077E+05 3600000E+02 3.535534E+030 0. 1.649539E+05
0. 0. 0. 3.178800E+00 0. 0.
CASE NUMBER 463
.1000000E+010 0. 0. 1.000000E+01 3.162278E+00 3600000E+02 1.000000E+04
.3162278E+00 3.600000E+020 4665600E+05 1.138420E+020 0. 0.
.3162278E+00 4665600E+05 3600000E+02 1.000000E+040 0. 4665600E+05
0. 0. 0. 3.399000E+00 0. 0.
CASE NUMBER 464
.1637117E+010 0. 0. 1.224745E+00 5.885795E+00 4409082E+02 1.000000E+04
.3162278E+00 5.613623E+020 4665600E+05 1.138420E+020 0. 0.
.3872983E+00 5.71470E+05 3600000E+02 1.037117E+040 0. 8.571235E+05
0. 0. 0. 3.645000E+00 0. 0.

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DATA INPUT
CASE NUMBER 481
.2023858E+010 0. 0. 0. 1264911E+01 5314811E+00 4553680E+02 3048625E+04
.2626129E+00 7285888E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3221819E+00 5901589E+05 3600000E+02 8189883E+040 0. 0. 0. 9442510E+05
0. 0. 0. 4081000E+00
CASE NUMBER 482
.2216528E+010 0. 0. 0. 1303840E+01 5820890E+00 4693826E+02 3048625E+04
.2626129E+00 7979504E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3424053E+00 8083198E+05 3600000E+02 8757365E+040 0. 0. 0. 1034144E+06
0. 0. 0. 8152000E+00
CASE NUMBER 483
.2414953E+010 0. 0. 0. 1341641E+01 6341978E+00 4828907E+02 3048625E+04
.2626129E+00 8693832E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3523221E+00 8259559E+05 3600000E+02 7362287E+040 0. 0. 0. 1126721E+06
0. 0. 0. 4216000E+00
CASE NUMBER 484
.2818959E+010 0. 0. 0. 1378405E+01 6877750E+00 4962258E+02 3048625E+04
.2626129E+00 9428208E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3819989E+00 8431096E+05 3600000E+02 7984555E+040 0. 0. 0. 1221906E+06
0. 0. 0. 4291000E+00
CASE NUMBER 485
.2828427E+010 0. 0. 0. 1414214E+01 7427814E+00 5091169E+02 3048625E+04
.2626129E+00 1018234E+020 0. 0. 4665600E+05 9454063E+010 0. 0.
.3713907E+00 8588155E+05 3600000E+02 8622814E+040 0. 0. 0. 1319631E+06
0. 0. 0. 4351000E+00
CASE NUMBER 486
.3779645E+000 0. 1000000E+030 0. 0. 0. 0. 0. 3430000E+03
0. 0. 1000000E+050 0. 4665600E+05 1360672E+02 3430000E+07 3779645E+02
0. 0. 3600000E+020 0. 0. 0. 3430000E+050 0.
0. 0. 4665600E+07 2542000E+00
CASE NUMBER 487
.3525534E+00 3535534E+02 1000000E+03 7071068E+02 7071068E+00 1336306E+00 2545584E+02 3430000E+03
.3779645E+00 1272782E+02 1000000E+05 3535534E+04 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.2672612E+00 3299077E+05 3600000E+02 1212888E+03 1272782E+04 3430000E+05 1272782E+06 1649539E+05
.2545584E+04 2545584E+06 4665600E+07 2690000E+00
CASE NUMBER 488
.1000000E+01 1000000E+03 1000000E+03 1000000E+03 1000000E+01 3779645E+00 3600000E+02 3430000E+03
.3779645E+00 3600000E+05 1000000E+05 1000000E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.3779645E+00 4665600E+05 3600000E+02 3430000E+03 3600000E+04 3430000E+05 3600000E+06 4665600E+05
.3600000E+04 3600000E+06 4665600E+07 2648000E+00

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TRANSGENERATED
DATA INPUT
CASE NUMBER 489
.1837117E+01 1837117E+03 1000000E+03 1224745E+02 1224745E+01 8943651E+00 4409082E+02 3430000E+03
.3779645E+00 1837117E+05 1000000E+05 1837117E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.4628100E+00 5714170E+05 3600000E+02 6301512E+03 6301512E+04 3430000E+05 6301512E+06 8571255E+05
.4409082E+04 4409082E+06 4665600E+07 3036000E+00
CASE NUMBER 490
.2828427E+01 2828427E+03 1000000E+03 1414214E+03 1414214E+01 1069045E+01 5091169E+02 3430000E+03
.3779645E+00 1018234E+03 1000000E+05 2828427E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.5245225E+00 6598155E+05 3600000E+02 9701505E+03 1018234E+05 3430000E+05 1018234E+07 1319631E+06
.5091169E+04 5091169E+06 4665600E+07 3241000E+00
CASE NUMBER 491
.3552847E+01 3552847E+03 1000000E+03 1581138E+03 1581138E+01 1494036E+01 5892100E+02 3430000E+03
.3779645E+00 1423025E+03 1000000E+05 3952847E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.5876143E+00 7378861E+05 3600000E+02 1355827E+04 1423025E+05 3430000E+05 1423025E+07 1844240E+06
.5892100E+04 5892100E+06 4665600E+07 3484000E+00
CASE NUMBER 492
.5196152E+01 5196152E+03 1000000E+03 1732051E+03 1732051E+01 1962861E+01 6235383E+02 3430000E+03
.3779645E+00 1870615E+03 1000000E+05 5196152E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.8546337E+00 8081056E+05 3600000E+02 1782280E+04 1870615E+05 3430000E+05 1870615E+07 2424317E+06
.8235383E+04 8235383E+06 4665600E+07 3727000E+00
CASE NUMBER 493
.8547800E+01 8547800E+03 1000000E+03 1870829E+03 1870829E+01 2474874E+01 6734983E+02 3430000E+03
.3779645E+00 2257244E+03 1000000E+05 8547800E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7071068E+00 6728388E+05 3600000E+02 2245970E+04 2257244E+05 3430000E+05 2257244E+07 3054988E+06
.6734983E+04 6734983E+06 4665600E+07 4048000E+00
CASE NUMBER 494
.6830520E+01 6830520E+03 1000000E+03 1897367E+03 1897367E+01 2581694E+01 6830520E+02 3430000E+03
.3779645E+00 2458977E+03 1000000E+05 6830520E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7171722E+00 8852354E+05 3600000E+02 2342868E+04 2458977E+05 3430000E+05 2458977E+07 3168847E+06
.6830520E+04 6830520E+06 4665600E+07 4104000E+00
CASE NUMBER 495
.7117082E+01 7117082E+03 1000000E+03 1923538E+03 1923538E+01 2690000E+01 6824738E+02 3430000E+03
.3779645E+00 2562153E+03 1000000E+05 7117082E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7270262E+00 8974461E+05 3600000E+02 2441183E+04 2562153E+05 3430000E+05 2562153E+07 3320550E+06
.6824738E+04 6824738E+06 4665600E+07 4168000E+00
CASE NUMBER 496
.7407564E+01 7407564E+03 1000000E+03 1949359E+03 1949359E+01 2799796E+01 7017892E+02 3430000E+03
.3779645E+00 2666723E+03 1000000E+05 7407564E+05 4665600E+05 1360672E+02 3430000E+07 3779645E+02
.7387884E+00 8084929E+05 3600000E+02 2540794E+04 2666723E+05 3430000E+05 2666723E+07 3456073E+06
.7017892E+04 7017892E+06 4665600E+07 4232000E+00

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DATA INPUT
CASE NUMBER 497
0 1000000E-030 0 0 0 7290000E-03
333333E+00 0 1000000E-030 4665600E-05 1200000E-02 7290000E-07 333333E+02
0 0 1000000E-020 0 0 0
0 0 4665600E-07 2623000E-00 0 0
CASE NUMBER 498
333333E+00 3335534E-02 1000000E-03 7071068E-02 7071068E-00 1178511E-00 2545584E-02 7290000E-03
333333E+00 1272792E-02 1000000E-05 3535534E-04 4665600E-05 1200000E-02 7290000E-07 333333E+02
2557023E-00 3299077E-05 3000000E-02 2577404E-03 1272792E-04 7290000E-05 1272792E-06 1649539E-05
2545584E-04 2545584E-06 4665600E-07 2795000E-00 0 0
CASE NUMBER 499
1000000E-01 1000000E-03 1000000E-03 1000000E-03 1000000E-01 333333E+00 3600000E-02 7290000E-03
333333E+00 3800000E-02 1000000E-05 1000000E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
333333E+00 4665600E-05 3600000E-02 7290000E-03 3600000E-04 7290000E-05 3600000E-06 4665600E-05
3600000E-04 3600000E-06 4665600E-07 2803000E-00 0 0
CASE NUMBER 500
1837117E-01 1837117E-03 1000000E-03 1224745E-03 1224745E-01 6123724E-00 4409082E-02 7290000E-03
333333E+00 6613622E-02 1000000E-05 1837117E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
4082403E-00 5714170E-05 3600000E-02 1338259E-04 6613622E-04 7290000E-05 6613622E-06 6571255E-05
4409082E-04 4409082E-06 4665600E-07 3197000E-00 0 0
CASE NUMBER 501
2828427E-01 2828427E-03 1000000E-03 1414214E-03 1414214E-01 8426050E-00 5091169E-02 7290000E-03
333333E+00 1018234E-03 1000000E-05 2828427E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
4714045E-00 658155E-05 3600000E-02 2091923E-04 1018234E-05 7290000E-05 1018234E-07 1319831E-06
5091169E-04 5091169E-06 4665600E-07 3423000E-00 0 0
CASE NUMBER 502
3952847E-01 3952847E-03 1000000E-03 1581139E-03 1581139E-01 1317616E-01 5692100E-02 7290000E-03
333333E+00 1423025E-03 1000000E-05 3952847E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5270463E-00 7376961E-05 3600000E-02 2881626E-04 1423025E-05 7290000E-05 1423025E-07 1844240E-06
5692100E-04 5692100E-06 4665600E-07 3687000E-00 0 0
CASE NUMBER 503
5196152E-01 5196152E-03 1000000E-03 1732051E-03 1732051E-01 1732051E-01 6225382E-02 7290000E-03
333333E+00 1870615E-03 1000000E-05 5196152E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5773503E-00 8081056E-05 3600000E-02 3787955E-04 1870615E-05 7290000E-05 1870615E-07 2426317E-06
6235382E-04 6235382E-06 4665600E-07 4006000E-00 0 0
CASE NUMBER 504
5458113E-01 5458113E-03 1000000E-03 1760682E-03 1760682E-01 1819371E-01 6338454E-02 7290000E-03
333333E+00 1964921E-03 1000000E-05 5458113E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5889939E-00 8214636E-05 3600000E-02 3978965E-04 1964921E-05 7290000E-05 1964921E-07 2546537E-06
6338454E-04 6338454E-06 4665600E-07 4078000E-00 0 0

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DATA INPUT
CASE NUMBER 505
5724334E-01 5724334E-03 1000000E-03 1788854E-03 1788854E-01 1908111E-01 6439876E-02 7290000E-03
333333E+00 2060760E-03 1000000E-05 5724334E-05 4665600E-05 1200000E-02 7290000E-07 333333E+02
5862848E-00 8346075E-05 3600000E-02 4173040E-04 2060760E-05 7290000E-05 2060760E-07 2670745E-06
6439876E-04 6439876E-06 4665600E-07 4152000E-00 0 0
CASE NUMBER 506
0 1000000E-030 0 0 0 1000000E-04
3162278E-000 0 1000000E-030 4665600E-05 1138420E-02 1000000E-06 3162278E-02
0 0 1000000E-020 0 0 0
0 0 4665600E-07 2667000E-00 0 0
CASE NUMBER 507
3335534E-00 3335534E-02 1000000E-03 7071068E-02 7071068E-00 1118034E-00 2545584E-02 1000000E-04
3162278E-00 1272792E-02 1000000E-05 3535534E-04 4665600E-05 1138420E-02 1000000E-06 3162278E-02
2236068E-00 3299077E-05 3000000E-02 3535534E-03 1272792E-04 1000000E-06 1272792E-06 1649539E-05
2545584E-04 2545584E-06 4665600E-07 2846000E-00 0 0
CASE NUMBER 508
1000000E-01 1000000E-03 1000000E-03 1000000E-03 1000000E-01 3162278E-00 3600000E-02 1000000E-04
3162278E-00 3600000E-02 1000000E-05 1000000E-05 4665600E-05 1138420E-02 1000000E-06 3162278E-02
3162278E-00 4665600E-05 3600000E-02 1000000E-04 3600000E-04 1000000E-06 3600000E-06 4665600E-05
3600000E-04 3600000E-06 4665600E-07 3053000E-00 0 0
CASE NUMBER 509
1837117E-01 1837117E-03 1000000E-03 1224745E-03 1224745E-01 5609475E-00 4409082E-02 1000000E-04
3162278E-00 6613622E-02 1000000E-05 1837117E-05 4665600E-05 1138420E-02 1000000E-06 3162278E-02
3872983E-00 5714170E-05 3600000E-02 1837117E-04 6613622E-04 1000000E-06 6613622E-06 8571255E-05
4409082E-04 4409082E-06 4665600E-07 3274000E-00 0 0
CASE NUMBER 510
2828427E-01 2828427E-03 1000000E-03 1414214E-03 1414214E-01 8944272E-00 5091169E-02 1000000E-04
3162278E-00 1018234E-03 1000000E-05 2828427E-05 4665600E-05 1138420E-02 1000000E-06 3162278E-02
4472136E-00 658155E-05 3600000E-02 2828427E-04 1018234E-05 1000000E-06 1018234E-07 1319831E-06
5091169E-04 5091169E-06 4665600E-07 3515000E-00 0 0
CASE NUMBER 511
3952847E-01 3952847E-03 1000000E-03 1581139E-03 1581139E-01 1250000E-01 5692100E-02 1000000E-04
3162278E-00 1423025E-03 1000000E-05 3952847E-05 4665600E-05 1138420E-02 1000000E-06 3162278E-02
5000000E-00 7376961E-05 3600000E-02 3952847E-04 1423025E-05 1000000E-06 1423025E-07 1844240E-06
5692100E-04 5692100E-06 4665600E-07 3807000E-00 0 0
CASE NUMBER 512
4192374E-01 4192374E-03 1000000E-03 1612452E-03 1612452E-01 1325745E-01 5804826E-02 1000000E-04
3162278E-00 1509255E-03 1000000E-05 4192374E-05 4665600E-05 1138420E-02 1000000E-06 3162278E-02
5099020E-00 7523054E-05 3600000E-02 4192374E-04 1509255E-05 1000000E-06 1509255E-07 1855864E-06
5804826E-04 5804826E-06 4665600E-07 3885000E-00 0 0

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DATA INPUT

CASE NUMBER	513	GROUP NUMBER	2
4438553E-01	4438553E-03	1000000E-03	1643168E-03
3182278E-00	1597159E-02	1000000E-05	4438553E-05
5186152E-00	7666363E-08	3600000E-02	4438553E-04
5915404E-04	5915404E-06	4665600E-07	3931000E-00
4685298E-01	4685298E-03	1000000E-03	1673320E-03
3182278E-00	1686707E-03	1000000E-05	4685298E-05
5291503E-00	7807042E-05	3600000E-02	4685298E-04
6023952E-04	6023952E-06	4665600E-07	4000000E-00
CASE NUMBER	515	GROUP NUMBER	2
0.	0.	1000000E-030.	0.
2886751E-000.	0.	1000000E-050.	0.
0.	0.	3600000E-020.	0.
0.	0.	4665600E-07.	2754000E-00
CASE NUMBER	516	GROUP NUMBER	2
2535534E-00	2535534E-02	1000000E-03	7071068E-03
2886751E-00	1272782E-02	1000000E-05	3535534E-04
2041241E-00	3299077E-05	3600000E-02	6109403E-03
2545584E-04	2545584E-06	4665600E-07	2953000E-00
CASE NUMBER	517	GROUP NUMBER	2
1000000E-01	1000000E-03	1000000E-03	1000000E-03
2886751E-00	3600000E-02	1000000E-05	1000000E-05
2886751E-00	4665600E-05	3600000E-02	1728000E-04
3600000E-04	3600000E-06	4665600E-07	3191000E-00
CASE NUMBER	518	GROUP NUMBER	2
1837117E-01	1837117E-03	1000000E-03	1224745E-03
2886751E-00	6613622E-02	1000000E-05	1837117E-05
3535534E-00	5714170E-05	3600000E-02	3174529E-04
4409082E-04	4409082E-06	4665600E-07	3429000E-00
CASE NUMBER	519	GROUP NUMBER	2
2828427E-01	2828427E-03	1000000E-03	1414214E-03
2886751E-00	1018234E-03	1000000E-05	2828427E-05
4082483E-00	6599155E-05	3600000E-02	4887522E-04
5091189E-04	5091189E-06	4665600E-07	3704000E-00
CASE NUMBER	520	GROUP NUMBER	2
3043189E-01	3043189E-03	1000000E-03	1449138E-03
2886751E-00	1095548E-03	1000000E-05	3043189E-05
4183300E-00	6761097E-05	3600000E-02	5258631E-04
5216899E-04	5216899E-06	4665600E-07	3764000E-00

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CASE NUMBER	521	GROUP NUMBER	2
3263127E-01	3263127E-03	1000000E-03	1483240E-03
2886751E-00	1174726E-03	1000000E-05	3263127E-05
4281744E-00	6920203E-05	3600000E-02	5638884E-04
5329663E-04	5329663E-06	4665600E-07	3826000E-00
CASE NUMBER	522	GROUP NUMBER	2
3488123E-01	3488123E-03	1000000E-03	1516575E-03
2886751E-00	1255724E-03	1000000E-05	3488123E-05
4277975E-00	7075733E-05	3600000E-02	6027476E-04
5459670E-04	5459670E-06	4665600E-07	3891000E-00
CASE NUMBER	523	GROUP NUMBER	2
0.	0.	1000000E-030.	0.
2626129E-000.	0.	1000000E-050.	0.
0.	0.	3600000E-020.	0.
0.	0.	4665600E-07.	2868000E-00
CASE NUMBER	524	GROUP NUMBER	2
3535534E-00	3535534E-02	1000000E-03	7071068E-03
2626129E-00	1272782E-02	1000000E-05	3535534E-04
1856953E-00	3299077E-05	3600000E-02	1077952E-04
2545584E-04	2545584E-06	4665600E-07	2096000E-00
CASE NUMBER	525	GROUP NUMBER	2
1000000E-01	1000000E-03	1000000E-03	1000000E-03
2626129E-00	3600000E-02	1000000E-05	1000000E-05
2626129E-00	4665600E-05	3600000E-02	3048625E-04
3600000E-04	3600000E-06	4665600E-07	3356000E-00
CASE NUMBER	526	GROUP NUMBER	2
1837117E-01	1837117E-03	1000000E-03	1224745E-03
2626129E-00	6613622E-02	1000000E-05	1837117E-05
3218238E-00	5714170E-05	3600000E-02	5800882E-04
4409082E-04	4409082E-06	4665600E-07	3829000E-00
CASE NUMBER	527	GROUP NUMBER	2
2023858E-01	2023858E-03	1000000E-03	1264811E-03
2626129E-00	7285888E-02	1000000E-05	2023858E-05
3321819E-00	5901589E-05	3600000E-02	6169982E-04
4552880E-04	4552880E-06	4665600E-07	3888000E-00
CASE NUMBER	528	GROUP NUMBER	2
0.	0.	2000000E-030.	0.
2779845E-000.	0.	4000000E-050.	0.
0.	0.	3600000E-020.	0.
0.	0.	8331200E-07.	2383000E-00

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DATA INPUT

CASE NUMBER	529	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3779645E-00	1272792E-02	4000000E-05	1414214E-05
2672612E-00	3299077E-05	3600000E-02	1212688E-03
5091169E-04	1018234E-07	9331200E-07	2471000E-00
CASE NUMBER	530	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
3779645E-00	3600000E-02	4000000E-05	4665600E-05
3779645E-00	4665600E-05	3600000E-02	3430000E-03
7200000E-04	1440000E-07	9331200E-07	2622000E-00
CASE NUMBER	531	GROUP NUMBER	2
1837117E-01	3674235E-03	2000000E-03	2449490E-03
3779645E-00	6613622E-02	4000000E-05	7348468E-05
4629100E-00	5714170E-05	3600000E-02	8301312E-03
8818163E-04	1763633E-07	9331200E-07	2786000E-00
CASE NUMBER	532	GROUP NUMBER	2
2828427E-01	5656854E-03	2000000E-03	2828427E-03
3779645E-00	1018234E-03	4000000E-05	1131371E-06
5345225E-00	6598155E-05	3600000E-02	9701503E-03
1018234E-05	2036468E-07	9331200E-07	2973000E-00
CASE NUMBER	533	GROUP NUMBER	2
3952847E-01	7905694E-03	2000000E-03	3162278E-03
3779645E-00	1423025E-03	4000000E-05	1581139E-06
5976142E-00	7376861E-05	3600000E-02	1355827E-04
1138420E-05	2276840E-07	9331200E-07	3187000E-00
CASE NUMBER	534	GROUP NUMBER	2
5196152E-01	1036230E-04	2000000E-03	3464102E-03
3779645E-00	1870815E-03	4000000E-05	2078461E-06
6546537E-00	8081058E-05	3600000E-02	1782280E-04
1247077E-05	2494153E-07	9331200E-07	2428000E-00
CASE NUMBER	535	GROUP NUMBER	2
6547900E-01	1309580E-04	2000000E-03	3741657E-03
3779645E-00	2337244E-03	4000000E-05	2619140E-06
7071068E-00	8728538E-05	3600000E-02	2245930E-04
1346897E-05	2683993E-07	9331200E-07	3733000E-00
CASE NUMBER	536	GROUP NUMBER	2
6830520E-01	1366104E-04	2000000E-03	3794733E-03
3779645E-00	2458877E-05	4000000E-05	2732208E-06
7171372E-00	8852354E-05	3600000E-02	2342868E-04
1266104E-05	2732208E-07	9331200E-07	2787000E-00

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DATA INPUT

CASE NUMBER	537	GROUP NUMBER	2
0	0	2000000E-030	0
3333333E-000	0	4000000E-050	0
0	0	3600000E-020	0
0	0	9331200E-07	2439000E-00
CASE NUMBER	538	GROUP NUMBER	2
3535534E-00	7071068E-02	2000000E-03	1414214E-03
3333333E-00	1272792E-02	4000000E-05	1414214E-05
2357023E-00	3299077E-05	3600000E-02	2577404E-03
5091169E-04	1018234E-07	9331200E-07	2577404E-03
CASE NUMBER	539	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	1000000E-01
3333333E-00	3600000E-02	4000000E-05	4665600E-05
3333333E-00	4665600E-05	3600000E-02	3430000E-03
7200000E-04	1440000E-07	9331200E-07	2743000E-00
CASE NUMBER	540	GROUP NUMBER	2
1837117E-01	3674235E-03	2000000E-03	2449490E-03
3333333E-00	6613622E-02	4000000E-05	7348468E-05
4092480E-00	5714170E-05	3600000E-02	8301312E-03
8818163E-04	1763633E-07	9331200E-07	2786000E-00
CASE NUMBER	541	GROUP NUMBER	2
2828427E-01	5656854E-03	2000000E-03	2828427E-03
3333333E-00	1018234E-03	4000000E-05	1131371E-06
4714045E-00	6598155E-05	3600000E-02	2061923E-04
1018234E-05	2036468E-07	9331200E-07	3185000E-00
CASE NUMBER	542	GROUP NUMBER	2
3952847E-01	7905694E-03	2000000E-03	3162278E-03
3333333E-00	1423025E-03	4000000E-05	1581139E-06
5976142E-00	7376861E-05	3600000E-02	1355827E-04
1138420E-05	2276840E-07	9331200E-07	3410000E-00
CASE NUMBER	543	GROUP NUMBER	2
4192374E-01	8384748E-03	2000000E-03	3224903E-03
3333333E-00	1509255E-03	4000000E-05	1676750E-06
5374833E-00	7523054E-05	3600000E-02	3056241E-04
1160865E-05	2221920E-07	9331200E-07	3464000E-00
CASE NUMBER	544	GROUP NUMBER	2
4436555E-01	8873105E-03	2000000E-03	3286335E-03
3333333E-00	1587158E-03	4000000E-05	1776421E-06
5677220E-00	7666363E-05	3600000E-02	3234947E-04
1183081E-05	2386181E-07	9331200E-07	3519000E-00

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TRANSGENERATED
DATA INPUT
CASE NUMBER 545
4685295E+01 9370592E+03 2000000E+03 3346640E+03 1673220E+01 1561765E+01 6023952E+02 7290000E+03
3333333E+00 1686707E+03 4000000E+05 1874118E+04 4665600E+05 1200000E+02 2816000E+08 6666667E+02
557774E+00 7807042E+05 3600000E+02 3415581E+04 3373413E+05 1458000E+06 6746826E+07 2185972E+06
1204790E+05 2409581E+07 9331200E+07 3577000E+00

CASE NUMBER 546
4938522E+01 9877044E+03 2000000E+03 3405877E+03 1702939E+01 1646174E+01 6130579E+02 7290000E+03
3333333E+00 1777888E+03 4000000E+05 1975409E+04 4665600E+05 1200000E+02 2816000E+08 6666667E+02
5678462E+00 7945231E+05 3600000E+02 3600183E+04 3555736E+05 1458000E+06 7111472E+07 2304117E+06
1266116E+05 2452322E+07 9331200E+07 3638000E+00

CASE NUMBER 547
0. 0. 2000000E+030. 0. 0. 0. 1000000E+04
3162278E+000. 4000000E+050. 4665600E+05 1138420E+02 4000000E+08 6324555E+02
0. 0. 3600000E+020. 0. 2000000E+060. 0.
0. 0. 9331200E+07 2479000E+00

CASE NUMBER 548
353534E+00 7071068E+02 2000000E+03 1414214E+03 7071068E+00 1118034E+00 2545584E+02 1000000E+04
3162278E+00 1272792E+02 4000000E+05 1414214E+05 4665600E+05 1138420E+02 4000000E+08 6324555E+02
2294080E+00 3299077E+05 3600000E+02 353534E+03 2545584E+04 2000000E+06 5091169E+06 1648539E+05
5091169E+04 1018234E+07 9331200E+07 2625000E+00

CASE NUMBER 549
1000000E+01 2000000E+03 2000000E+03 2000000E+03 1000000E+01 3162278E+00 3600000E+02 1000000E+04
3162278E+00 3600000E+02 4000000E+05 4000000E+05 4665600E+05 1138420E+02 4000000E+08 6324555E+02
3162278E+00 4665600E+05 3600000E+02 1000000E+04 7200000E+04 2000000E+06 1440000E+07 4665600E+05
7200000E+04 1440000E+07 9331200E+07 2809000E+00

CASE NUMBER 550
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5809475E+00 4408082E+02 1000000E+04
3162278E+00 4612822E+02 4000000E+05 7348499E+05 4665600E+05 1138420E+02 4000000E+08 6324555E+02
3872883E+00 5714170E+05 3600000E+02 1837117E+04 1322724E+05 3456000E+06 2645449E+07 8371255E+05
8818163E+04 1763633E+07 9331200E+07 3178000E+00

CASE NUMBER 551
2828427E+01 5656854E+03 2000000E+03 2828427E+03 1414214E+01 8944272E+00 5091169E+02 1000000E+04
3162278E+00 7018234E+03 4000000E+05 1131371E+06 4665600E+05 1138420E+02 4000000E+08 6324555E+02
4472136E+00 6588155E+05 3600000E+02 2828427E+04 2828427E+04 2000000E+06 4072935E+07 1319631E+06
1018234E+05 2024468E+07 9331200E+07 3254000E+00

CASE NUMBER 552
3952847E+01 7805894E+03 2000000E+03 3162278E+02 1581139E+01 1250000E+01 5692100E+02 1000000E+04
3162278E+00 1432325E+03 4000000E+05 1581139E+04 4665600E+05 1138420E+02 4000000E+08 6324555E+02
5000000E+00 7376961E+05 3600000E+02 3952847E+04 2844050E+05 2000000E+06 5692100E+07 1844240E+06
1128420E+05 2276840E+07 9331200E+07 3517000E+00

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TRANSGENERATED
DATA INPUT
CASE NUMBER 553
4192274E+01 8384748E+03 2000000E+03 3224903E+03 1612452E+01 1325745E+01 5804826E+02 1000000E+04
3162278E+00 1509255E+03 4000000E+05 1676950E+04 4665600E+05 1138420E+02 4000000E+08 6324555E+02
5098020E+00 7823235E+05 3600000E+02 4192274E+04 3018509E+05 2000000E+06 6037019E+07 1955994E+06
1160885E+05 2321930E+07 9331200E+07 3575000E+00

CASE NUMBER 554
0. 0. 2000000E+030. 0. 0. 0. 1728000E+04
2886751E+000. 4000000E+050. 4665600E+05 1039230E+02 6912000E+08 5773503E+02
0. 0. 3600000E+020. 0. 3456000E+060. 0.
0. 0. 9331200E+07 2544000E+00

CASE NUMBER 555
353534E+00 7071068E+02 2000000E+03 1414214E+03 7071068E+00 1020621E+00 2545584E+02 1728000E+04
2886751E+00 1272792E+02 4000000E+05 1414214E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
2061241E+00 3299077E+05 3600000E+02 6108403E+03 2545584E+04 3456000E+06 5091169E+06 1648539E+05
5091169E+04 1018234E+07 9331200E+07 2726000E+00

CASE NUMBER 556
1000000E+01 2000000E+03 2000000E+03 2000000E+03 1000000E+01 2886751E+00 3600000E+02 1728000E+04
2886751E+00 3600000E+02 4000000E+05 4000000E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
2886751E+00 4665600E+05 3600000E+02 1728000E+04 7200000E+04 3456000E+06 1440000E+07 4665600E+05
7200000E+04 1440000E+07 9331200E+07 2943000E+00

CASE NUMBER 557
1837117E+01 3674235E+03 2000000E+03 2449490E+03 1224745E+01 5303301E+00 4408082E+02 1728000E+04
2886751E+00 4612822E+02 4000000E+05 7348499E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
353534E+00 5714170E+05 3600000E+02 1837117E+04 1322724E+05 3456000E+06 2645449E+07 8371255E+05
8818163E+04 1763633E+07 9331200E+07 3178000E+00

CASE NUMBER 558
2032858E+01 4047713E+03 2000000E+03 2529822E+03 1264911E+01 5842374E+00 4532480E+02 1728000E+04
2886751E+00 7285280E+02 4000000E+05 8095431E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
3651484E+00 5801569E+05 3600000E+02 3487226E+04 1457178E+05 3456000E+06 2814355E+07 8442510E+05
9107300E+04 1821472E+07 9331200E+07 2227000E+00

CASE NUMBER 559
2118519E+01 4433058E+03 2000000E+03 2607681E+03 1303846E+01 4298568E+00 4693828E+02 1728000E+04
2886751E+00 7879500E+02 4000000E+05 3886113E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
3743833E+00 6083190E+05 3600000E+02 3336162E+04 1585901E+05 3456000E+06 3191801E+07 1034144E+06
8387451E+04 1877536E+07 9331200E+07 3278000E+00

CASE NUMBER 560
2414953E+01 4828907E+03 2000000E+03 2683262E+03 1341441E+01 8971370E+00 4828907E+02 1728000E+04
2886751E+00 8893832E+02 4000000E+05 8659814E+05 4665600E+05 1039230E+02 6912000E+08 5773503E+02
3872932E+00 6259559E+05 3600000E+02 4173040E+04 1738786E+05 3456000E+06 3477532E+07 1728721E+06
6858614E+04 1821962E+07 9331200E+07 3328000E+00

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DATA INPUT

CASE NUMBER	561	GROUP NUMBER	2
261896E-01	5237920E-03	2000000E-03	2756810E-03
2086751E-00	9428280E-02	4000000E-05	1047580E-06
3979112E-00	6431086E-05	3600000E-02	4525578E-04
3924515E-04	1884903E-07	9331200E-07	3379000E-00
CASE NUMBER	562	GROUP NUMBER	2
2828427E-01	5656854E-03	2000000E-03	2828427E-03
2886751E-00	1018224E-03	4000000E-05	1131371E-06
4082483E-00	3588155E-05	3600000E-02	4887522E-04
1018234E-05	2036468E-07	9331200E-07	3432000E-00
CASE NUMBER	563	GROUP NUMBER	2
0	0	2000000E-030	0
2626129E-000	0	4000000E-050	4665600E-05
0	0	3600000E-020	9454063E-01
0	0	9331200E-07	6097250E-060
CASE NUMBER	564	GROUP NUMBER	2
2535532E-00	7071068E-03	2000000E-03	1414214E-03
2626129E-00	1272792E-02	4000000E-05	1414214E-05
1856053E-00	3289077E-05	3600000E-02	1077852E-04
5061169E-04	1018234E-07	9331200E-07	2875000E-00
CASE NUMBER	565	GROUP NUMBER	2
1000000E-01	2000000E-03	2000000E-03	2000000E-03
2626129E-00	3600000E-02	4000000E-05	4000000E-05
2626129E-00	4865600E-05	3600000E-02	3648625E-04
7200000E-04	1440000E-07	9331200E-07	3115000E-00
CASE NUMBER	566	GROUP NUMBER	2
1153490E-01	2307378E-03	2000000E-03	2087618E-03
2626129E-00	4153263E-02	4000000E-05	4614759E-05
2754307E-00	4883323E-05	3600000E-02	3517167E-04
7551424E-04	1510285E-07	9331200E-07	3162000E-00
CASE NUMBER	567	GROUP NUMBER	2
1314534E-01	2628068E-03	2000000E-03	2190890E-03
2626129E-00	4732323E-02	4000000E-05	5258137E-05
2871800E-00	5110809E-05	3600000E-02	4607522E-04
7887205E-04	1577441E-07	9331200E-07	3211000E-00
CASE NUMBER	568	GROUP NUMBER	2
1482222E-01	2984456E-03	2000000E-03	2280351E-03
2626129E-00	5236021E-02	4000000E-05	5829812E-05
2994247E-00	5219402E-05	3600000E-02	4518757E-04
8209262E-04	1641852E-07	9331200E-07	3260000E-00

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DATA INPUT

CASE NUMBER	569	GROUP NUMBER	1
0	0	5000000E-020	0
3779645E-000	0	2500000E-040	5832000E-04
0	0	1800000E-020	6803361E-01
0	0	2916000E-06	1715000E-050
CASE NUMBER	570	GROUP NUMBER	1
3986559E-00	1993280E-02	5000000E-02	3679500E-02
3779645E-00	7175808E-01	2500000E-04	9986398E-03
2781743E-00	4282386E-04	1800000E-02	1387380E-03
8633821E-03	3311910E-05	2916000E-06	3465000E-00
CASE NUMBER	571	GROUP NUMBER	1
1054047E-01	5270235E-02	5000000E-02	5088502E-02
3779645E-00	1897285E-02	2500000E-04	2635117E-04
3846549E-00	5935229E-04	1800000E-02	2615381E-03
8159304E-03	4578652E-05	2916000E-06	3750000E-00
CASE NUMBER	572	GROUP NUMBER	1
1827117E-01	3185587E-02	5000000E-02	6123724E-02
3779645E-00	2308811E-02	2500000E-04	4592783E-04
4629180E-00	7142712E-04	1800000E-02	6301312E-03
1102270E-04	5511352E-05	2916000E-06	3965000E-00
CASE NUMBER	573	GROUP NUMBER	1
2828427E-01	1414214E-03	5000000E-02	7071068E-02
3779645E-00	5091169E-02	2500000E-04	7071068E-04
5345225E-00	6247892E-04	1800000E-02	9701505E-03
1272792E-04	6363961E-05	2916000E-06	4116000E-00
CASE NUMBER	574	GROUP NUMBER	1
3952847E-01	1978044E-03	5000000E-02	7805894E-02
3779645E-00	7115125E-02	2500000E-04	5882118E-04
5976181E-00	8221202E-04	1800000E-02	1355827E-04
1423025E-04	7115125E-05	2916000E-06	4374000E-00
CASE NUMBER	575	GROUP NUMBER	1
5196132E-01	2580078E-03	5000000E-02	8660294E-02
3779645E-00	3353074E-02	2500000E-04	1299038E-05
6546327E-00	1010132E-05	1800000E-02	1782280E-04
1558846E-04	7794228E-05	2916000E-06	4734000E-00
CASE NUMBER	576	GROUP NUMBER	1
6567806E-01	3273950E-03	5000000E-02	9354143E-02
3779645E-00	1176622E-02	2500000E-04	1826875E-05
7071068E-00	1001067E-05	1800000E-02	2248930E-04
1682748E-04	8418729E-05	2916000E-06	5211000E-00

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DATA INPUT

CASE NUMBER 593	GROUP NUMBER 1
7407564E-01-3703782E-03-5000000E-02-9746794E-02-1949358E-01-2469188E-01-3508846E-02-7290000E-03	
3333333E-00-1333331E-03-2500000E-04-1851891E-05-5832000E-04-6000000E-01-1822500E-07-1666667E-02	
6497883E-00-1136868E-05-1800000E-02-5400114E-04-6666807E-04-3645000E-05-3333404E-06-4320091E-05	
1754423E-04-8772115E-05-2916000E-06-5507000E-00	
CASE NUMBER 594	GROUP NUMBER 1
7701883E-01-3858941E-03-5000000E-02-8874209E-02-1874842E-01-2567294E-01-3554715E-02-7290000E-03	
3333333E-00-1386339E-03-2500000E-04-1825471E-05-5832000E-04-6000000E-01-1822500E-07-1666667E-02	
6582806E-00-1151728E-05-1800000E-02-5614673E-04-8831895E-04-3645000E-05-3465847E-06-4481738E-05	
1777358E-04-8886788E-05-2916000E-06-5555000E-00	
CASE NUMBER 595	GROUP NUMBER 1
8000000E-01-4000000E-03-5000000E-02-1000000E-03-2000000E-01-2666667E-01-3600000E-02-7290000E-03	
3333333E-00-1440000E-03-2500000E-04-2000000E-05-5832000E-04-6000000E-01-1822500E-07-1666667E-02	
6666667E-00-1166400E-05-1800000E-02-5832000E-04-7200000E-04-3645000E-05-3600000E-06-4665600E-05	
1800000E-04-9000000E-05-2916000E-06-5611000E-00	
CASE NUMBER 596	GROUP NUMBER 1
0-0-5000000E-020-0-0-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
3162278E-000-2500000E-040-0-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
0-0-1800000E-020-0-5000000E-050-0-0-0	
0-0-2916000E-06-3200000E-00	
CASE NUMBER 597	GROUP NUMBER 1
3535534E-00-1767767E-02-5000000E-02-3535534E-02-7071068E-00-1118034E-00-1272792E-02-1000000E-04	
3162278E-00-6363961E-01-2500000E-04-8838835E-03-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
2236058E-00-4123847E-04-1800000E-02-2535534E-02-3181981E-03-5000000E-05-1590990E-05-2061923E-04	
6363961E-03-3181981E-05-2916000E-06-3545000E-00	
CASE NUMBER 598	GROUP NUMBER 1
1000000E-01-5000000E-03-5000000E-02-5000000E-02-1000000E-01-3162278E-00-1800000E-02-1000000E-04	
3162278E-00-3000000E-02-2500000E-04-2500000E-04-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
3162278E-00-5832000E-04-1800000E-02-1000000E-04-9000000E-03-5000000E-05-4500000E-05-5832000E-04	
9000000E-03-4500000E-05-2916000E-06-3882000E-00	
CASE NUMBER 599	GROUP NUMBER 1
1837117E-01-9185587E-02-5000000E-02-8123724E-02-1224745E-01-5809475E-00-2204541E-02-1000000E-04	
3162278E-00-3306811E-02-2500000E-04-4592782E-04-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
3872983E-00-7142712E-04-1800000E-02-1837117E-04-1653406E-04-5000000E-05-8267028E-05-1071407E-05	
1102770E-04-5511352E-05-2916000E-06-4170000E-00	
CASE NUMBER 600	GROUP NUMBER 1
2828427E-01-1414214E-03-5000000E-02-7071068E-02-1414214E-01-8944272E-00-2645564E-02-1000000E-04	
3162278E-00-3091189E-02-2500000E-04-7071068E-04-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
4472136E-00-8247693E-04-1800000E-02-2828427E-04-2545564E-04-5000000E-05-1272792E-06-1649526E-05	
1272792E-04-6363961E-05-2916000E-06-4487000E-00	

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CASE NUMBER 601	GROUP NUMBER 1
3932847E-01-1878424E-03-5000000E-02-7905684E-02-1581139E-01-1250000E-01-2846050E-02-1000000E-04	
3162278E-00-7115125E-02-2500000E-04-9882118E-04-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
5000000E-00-9221202E-04-1800000E-02-3952847E-04-3557562E-04-5000000E-05-1778781E-06-2303300E-05	
1423025E-04-7115125E-05-2916000E-06-4808000E-00	
CASE NUMBER 602	GROUP NUMBER 1
5186152E-01-2598076E-03-5000000E-02-8660254E-02-1722051E-01-1642188E-01-3117691E-02-1000000E-04	
3162278E-00-9252074E-02-2500000E-04-1299038E-05-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
5477226E-00-1010132E-03-1800000E-02-5186152E-04-4676537E-04-5000000E-05-2328268E-06-7030398E-05	
1558948E-04-7794229E-05-2916000E-06-5217000E-00	
CASE NUMBER 603	GROUP NUMBER 1
5547900E-01-1273950E-03-5000000E-02-8358143E-02-1870828E-01-2070638E-01-3367492E-02-1000000E-04	
3162278E-00-1178622E-03-2500000E-04-1636975E-05-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
5916080E-00-1091067E-05-1800000E-02-6547900E-04-5893110E-04-5000000E-05-2946555E-06-3818736E-05	
1683746E-04-8418729E-05-2916000E-06-5500000E-00	
CASE NUMBER 604	GROUP NUMBER 1
6830520E-01-3415260E-03-5000000E-02-9486832E-02-1897387E-01-2160000E-01-3415260E-02-1000000E-04	
3162278E-00-1228494E-03-2500000E-04-1707630E-05-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
6000000E-00-1108544E-05-1800000E-02-8830520E-04-6147488E-04-5000000E-05-3073734E-06-3983559E-05	
1707630E-04-8538150E-05-2916000E-06-5509000E-00	
CASE NUMBER 605	GROUP NUMBER 1
7117052E-01-3558546E-03-5000000E-02-8617882E-02-1933538E-01-2250622E-01-3462368E-02-1000000E-04	
3162278E-00-1281077E-03-2500000E-04-1778272E-05-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
4082743E-00-1121808E-05-1800000E-02-7117052E-04-6405383E-04-5000000E-05-3202891E-06-4150688E-05	
1731185E-04-8855927E-05-2916000E-06-5568000E-00	
CASE NUMBER 606	GROUP NUMBER 1
7407564E-01-3703782E-03-5000000E-02-9746794E-02-1949358E-01-2242477E-01-3508846E-02-1000000E-04	
3162278E-00-1232281E-03-2500000E-04-1851891E-05-5832000E-04-5882100E-01-2500000E-07-1581139E-02	
6184414E-00-1136868E-05-1800000E-02-7407564E-04-6666807E-04-5000000E-05-3333404E-06-4320091E-05	
1754423E-04-8772115E-05-2916000E-06-5629000E-00	
CASE NUMBER 607	GROUP NUMBER 1
0-0-5000000E-020-0-0-5832000E-04-5186152E-01-4320000E-07-1443376E-02	
2888751E-000-2500000E-040-0-5832000E-04-5186152E-01-4320000E-07-1443376E-02	
0-0-1800000E-020-0-5000000E-050-0-0-0	
0-0-2916000E-06-3346000E-00	
CASE NUMBER 608	GROUP NUMBER 1
3535534E-00-1767767E-02-5000000E-02-3535534E-02-7071068E-00-1020621E-00-1272792E-02-1726000E-04	
2986751E-00-6363961E-01-2500000E-04-8838835E-03-5832000E-04-5186152E-01-4320000E-07-1443376E-02	
2041261E-00-4123847E-04-1800000E-02-6109402E-03-2781981E-03-8840000E-05-1590990E-05-2061923E-04	
6363961E-03-3181981E-05-2916000E-06-3707000E-00	

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DATA INPUT

CASE NUMBER 609

1000000E-01	5000000E-02	5000000E-02	5000000E-02	1000000E-01	2886751E-00	1800000E-02	1728000E-00
2886751E-00	1800000E-02	2500000E-04	2500000E-04	5832000E-04	5186152E-01	4320000E-07	1443377E-02
2886751E-00	5832000E-04	1800000E-02	1728000E-00	9000000E-03	8640000E-05	4500000E-05	5832000E-04
5832000E-03	4500000E-05	2916000E-06	4078000E-04				

CASE NUMBER 610

1837117E-01	9185587E-02	5000000E-02	6123724E-01	1224745E-01	5301301E-00	-2204541E-02	17280000E-04
2886751E-01	3004881E-02	2500000E-04	4592793E-04	5832000E-04	-5198152E-01	41320000E-07	1443137E-02
2535534E-00	7142712E-04	1800000E-02	3174539E-04	1651406E-04	-8640000E-05	8267028E-05	1071407E-05
1102270E-04	5511352E-05	2816000E-06	4378000E-00				

CASE NUMBER 611

2828427E-01	-1414214E-03	5000000E-02	7071068E-04	1414214E-01	-8164986E-00	2545584E-02	1728000E-04
2888751E-00	-5091169E-02	2500000E-04	7071068E-04	5812000E-01	-5196152E-01	4132000E-07	1443176E-02
4082483E-00	8247993E-04	1800000E-02	4887522E-04	2545584E-02	-8640000E-05	1272792E-06	1649519E-05
1272792E-04	6367691E-05	2915000E-06	4887522E-04				

CASE NUMBER 612

7952247E-01	7874242E+03	55000000E-02	7905694E-02	1.581135E+01	114.1099E+01	2846450E+02	1728000E+04
28866751E+00	1171524E+02	25000000E-04	9802118E+04	5832000E+04	5186152E+01	4320000E+07	1443317E+02
45643355E+00	8221202E+04	1800000E-02	6830320E+04	3557562E+04	8640000E+05	1778781E+06	2305300E+05
1423025E+04	9115125E+05	2916000E+06	5026000E+00				

CASE NUMBER 613

5.186152E-01	2558076E-03	5000000E-02	4840254E-02	1732051E-01	1500000E-01	3117691E-02	1728000E-04
2886751E-00	8330764E-02	2500000E-01	1290038E-05	5832000E-04	5.196152E-01	4320000E-07	1443376E-07
1500000E-00	1010132E-05	1800000E-02	8578951E-04	46746537E-04	8640000E-05	2338268E-06	3030396E-05
5588846E-04	7794228E-05	2816000E-06	5487800E-00				

CASE NUMBER 614

5458117E-01	-2729057E-03	5000000E-02	8803408E-02	1760632E-01	-1576522E-01	3169227E-02	1728000E-04
2886751E-00	8824640E-02	2500000E-04	1264528E-05	5832000E-01	5196152E-01	4320000E-07	1443374E-02
5082450E-00	1026810E-05	1800000E-02	9431620E-04	4812302E-04	8640000E+05	2456151E-06	3183172E-05
1584614E-04	7923368E-05	2916000E-06	5489000E+00				

CASE NUMBER 015

5726434E-01	2862167E-03	5000000E-02	8944272E-02	1788554E-01	1652473E-01	3218938E-01	1728000E-04
2884515E-00	1030380E-03	2500000E-03	1421084E-05	9672000E-04	1596152E-01	4320000E-07	1443376E-02
5163978E-00	1043260E-05	2000000E-02	9891648E-04	5151901E-04	8640000E-05	2575950E-06	3338432E-05
8049845E-04	8049845E-05	2916000E-06	5070000E-00				

CASE NUMBER 616

5394748E-01	2997374E-03	5000000E-02	9042851E-02	1816590E-01	1730535E-01	3259866E-02	1728000E-04
2868751E-00	1079055E-03	2500000E-04	4485687E-05	5823000E-04	5196152E-01	4320000E-07	1443376E-02
5244044E-00	1059425E-05	1800000E-02	1073829E-05	5395273E-04	8840000E-05	2697636E-06	3496137E-05
1634931E-04	8174856E-05	2916000E-06	5547000E-00				

Keywords: child sexual abuse; disclosure; social support

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CASE NUMBER 617

2268290E-01	-31.3446E+03	5000000E-02	3219134E-02	1843090E-01	1803978E-01	3329036E-02	1720000E-04
2826571E-00	1128472E+03	2500000E-04	567322E+05	5832000E-04	5196152E-01	4319000E-07	1443376E-02
5322906E-00	1075368E-05	1800000E-02	1083333E-05	5642361E-04	8840000E-05	2821191E-06	3856250E-05
1585518E-04	8297590E+05	2916000E-06	5608000E+00				

CASE NUMBER 618

0	0	- 5000000E+00	0	0	0	0	1048625E+04
2826129E+00	0	2500000E+00	- 583200E+04	4727032E+01	7621562E+07	131064E+02	0
0	0	- 1800000E+00	0	0	1524313E+06	0	0
0	0	2516000E+06	1455200E+00	0	0	0	0

CASE NUMBER 619

3523514E-00	-17677767E-02	5000000E-02	3535334E+02	7071088E+00	-9278767E-01	-1272792E+02	3048625E+04
2626129E-00	-6363881E-01	2500000E-04	8838835E+03	5632000E+04	-4727032E+01	7621596E+07	1313064E+02
1858953E-00	-4123847E-04	1800000E-02	1077852E-04	3181981E+03	-1524313E+06	-1590990E+05	-2061923E+04
6363961E-03	3181981E-05	2816000E-06	3857000E+00				

CASE NUMBER 620

```

20262129E-001 5000000E+02 5000000E+02 5000000E+02 1000000E+01 2626129E+00 1800000E+02 1048625E+04
2626129E+00 1800000E+02 2500000E+04 2500000E+04 5832000E+04 727032E+01 7621562E+07 1313064E+02
2626129E+00 5832000E+04 1800000E+02 3048625E+04 9000000E+03 1524312E+06 4500000E+05 5832000E+04
5000000E+03 4500000E+05 2918000E+06 4254000E+00

```

CASE NUMBER 62:

```

1.750334E+01  875.1668E+02  50000000E+02  6025739E+02  1205148E+01  4566001E+00  2189266E+02  3048625E+04
202281.29E+00  3150801E+02  25000000E+02  4758334E+04  5832004E+04  4727032E+01  7621568E+07  1313064E+02
3.164873E+00  7028421E+04  18000000E+02  5336111E+04  1575330E+04  1524313E+06  7876501E+05  1020795E+05
1048633E+04  5423165E+05  2918000E+06  4555000E+00

```

CASE NUMBER 622

2028247E-01	-1414214E+03	5000000E+02	7071088E+02	-1414214E+01	-7427814E+00	-2545584E-02	3048625E-04
2028128E-00	-5091168E+02	2500000E+04	7071088E+04	-5932000E+01	-7427032E+01	-7621584E-07	-1313064E-02
1713907E-00	-8247893E+04	-1800000E+02	8622814E+04	-2545584E+04	-1524313E+06	-1272792E+06	-1649538E+05
2272792E-04	-8263961E+05	2816000E+06	4925000E+00				

CASE NUMBER 623

2952947E-01	7176424E-03	5000000E-02	7950484E-02	1581139E-01	1038068E-01	2648050E-02	1048625E-04
2628129E-00	7115125E-02	2500000E-04	8482118E-04	5832000E-04	4727032E-01	7621562E-07	1313044E-02
5152274E-00	9221202E-04	1800000E-02	1205075E-05	3557562E-04	1524313E-06	1778781E-06	2305200E-05
1423025E-04	7215125E-05	1916000E-06	5342000E-00				

CASE NUMBER 624

4192374E-01	7956187E-03	5000000E-02	8062253E-01	1100971E-01	2902413E-02	3048625E-04
2628129E-00	2584273E-02	2500000E-01	1042089E-05	5832000E-04	4727032E-01	7621562E-07
4234505E-00	5403817E-01	1600000E-02	1278098E-05	2773127E-04	1524213E-06	1886568E-06
1451206E-04	7256032E-05	2916000E-06	5438000E-00			2444993E-05

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DATA INPUT

CASE NUMBER	GROUP NUMBER						
3535534E+000	0	0	0	7071068E+00	1178511E+00	1272792E+02	7290000E+03
3333333E+000	0	0	0	5832000E+04	6000000E+010	0	0
2357023E+000	4123847E+04	1800000E+02	2577404E+030	0	0	0	2061923E+04
0	0	0	3310000E+00	0	0	0	0
CASE NUMBER 642	GROUP NUMBER						
1000000E+010	0	0	0	1000000E+01	3333333E+00	1800000E+02	7290000E+03
3333333E+000	1800000E+020	0	0	5832000E+04	6000000E+010	0	0
3333333E+000	5832000E+04	1800000E+02	7290000E+030	0	0	0	5832000E+04
0	0	0	3601000E+00	0	0	0	0
CASE NUMBER 643	GROUP NUMBER						
1837117E+010	0	0	0	1224745E+01	8123724E+00	2204541E+02	7290000E+03
3333333E+000	3308811E+020	0	0	5832000E+04	6000000E+010	0	0
4082483E+000	7142712E+04	1800000E+02	1338258E+040	0	0	0	1071407E+05
0	0	0	3887000E+00	0	0	0	0
CASE NUMBER 644	GROUP NUMBER						
2828427E+010	0	0	0	1414214E+01	8428090E+00	2545584E+02	7290000E+03
3333333E+000	5091169E+020	0	0	5832000E+04	6000000E+010	0	0
4714045E+000	8247693E+04	1800000E+02	2061923E+040	0	0	0	1649538E+05
0	0	0	4112000E+00	0	0	0	0
CASE NUMBER 645	GROUP NUMBER						
3852847E+010	0	0	0	1581138E+01	1317416E+01	2848050E+02	7290000E+03
3333333E+000	7115125E+020	0	0	5832000E+04	6000000E+010	0	0
5270463E+000	9221202E+04	1800000E+02	2881626E+040	0	0	0	2305300E+05
0	0	0	4354000E+00	0	0	0	0
CASE NUMBER 646	GROUP NUMBER						
5196152E+010	0	0	0	1732051E+01	1732051E+01	3117691E+02	7290000E+03
3333333E+000	9353074E+020	0	0	5832000E+04	6000000E+010	0	0
5772502E+000	1010132E+05	1800000E+02	3787995E+040	0	0	0	3030366E+05
0	0	0	4665000E+00	0	0	0	0
CASE NUMBER 647	GROUP NUMBER						
6547900E+010	0	0	0	1870828E+01	2182632E+01	3387492E+02	7290000E+03
3333333E+000	1178622E+020	0	0	5832000E+04	6000000E+010	0	0
4236086E+000	1091067E+05	1800000E+02	4773418E+040	0	0	0	3818736E+05
0	0	0	5086000E+00	0	0	0	0
CASE NUMBER 648	GROUP NUMBER						
6830520E+010	0	0	0	1887367E+01	2276840E+01	3415260E+02	7290000E+03
3333333E+000	1229494E+020	0	0	5832000E+04	6000000E+010	0	0
6324555E+000	1106544E+05	1800000E+02	4878449E+040	0	0	0	3983559E+05
0	0	0	5182000E+00	0	0	0	0

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DATA INPUT

CASE NUMBER	GROUP NUMBER						
717082E+010	0	0	0	1923538E+01	2172364E+01	3462369E+02	7290000E+03
3333333E+000	1281077E+030	0	0	5832000E+04	6000000E+010	0	0
6411795E+000	1121808E+05	1800000E+02	5188360E+040	0	0	0	4150688E+05
0	0	0	5259000E+00	0	0	0	0
CASE NUMBER 650	GROUP NUMBER						
7407564E+010	0	0	0	1949359E+01	2469188E+01	3508846E+02	7290000E+03
3333333E+000	1333361E+030	0	0	5832000E+04	6000000E+010	0	0
6497863E+000	1126886E+05	1800000E+02	5400114E+040	0	0	0	4320091E+05
0	0	0	5328000E+00	0	0	0	0
CASE NUMBER 651	GROUP NUMBER						
7701883E+010	0	0	0	1974842E+01	2567294E+01	3554715E+02	7290000E+03
3333333E+000	1286238E+020	0	0	5832000E+04	6000000E+010	0	0
6582806E+000	1151728E+05	1800000E+02	5614873E+040	0	0	0	4491738E+05
0	0	0	5402000E+00	0	0	0	0
CASE NUMBER 652	GROUP NUMBER						
3162278E+000	0	0	0	0	0	0	1000000E+04
0	0	0	0	5832000E+04	5692100E+010	0	0
0	0	0	1800000E+020	0	0	0	0
0	0	0	3082000E+00	0	0	0	0
CASE NUMBER 653	GROUP NUMBER						
3535534E+000	0	0	0	7071068E+00	1118034E+00	1272792E+02	1000000E+04
3162278E+000	8163961E+010	0	0	5832000E+04	5692100E+010	0	0
2276068E+000	4123847E+04	1800000E+02	3535534E+030	0	0	0	2061923E+04
0	0	0	3393000E+00	0	0	0	0
CASE NUMBER 654	GROUP NUMBER						
1000000E+010	0	0	0	1000000E+01	3162278E+00	1800000E+02	1000000E+04
3162278E+000	1800000E+020	0	0	5832000E+04	5692100E+010	0	0
3162278E+000	5832000E+04	1800000E+02	1000000E+040	0	0	0	5832000E+04
0	0	0	3899000E+00	0	0	0	0
CASE NUMBER 655	GROUP NUMBER						
1837117E+010	0	0	0	1224745E+01	8089475E+00	2204541E+02	1000000E+04
3162278E+000	3308811E+020	0	0	5832000E+04	5692100E+010	0	0
3872883E+000	7142712E+04	1800000E+02	1837117E+040	0	0	0	1071407E+05
0	0	0	3959000E+00	0	0	0	0
CASE NUMBER 656	GROUP NUMBER						
2828427E+010	0	0	0	1414214E+01	8844272E+00	2545584E+02	1000000E+04
3162278E+000	5091169E+020	0	0	5832000E+04	5692100E+010	0	0
4472138E+000	8247693E+04	1800000E+02	2828427E+040	0	0	0	1649538E+05
0	0	0	4176000E+00	0	0	0	0

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DATA INPUT
CASE NUMBER 657
3952847E-010 0 0 1581138E-01 250000E-01 2846050E-02 1000000E-04
3162278E-00 7115125E-020 0 5832000E-04 5682100E-010 0
5000000E-00 8221202E-04 1800000E-02 2952847E-040 0 2305300E-05
0 0 4460000E-00
CASE NUMBER 658
5196152E-010 0 0 1732051E-01 1643168E-01 3117691E-02 1000000E-04
3162278E-00 9353074E-020 0 5832000E-04 5682100E-010 0
5477226E-00 1010132E-05 1800000E-02 5196152E-040 0 3030396E-05
0 0 4797000E-00
CASE NUMBER 659
6547900E-010 0 0 1870829E-01 2070428E-01 3367482E-02 1000000E-04
3162278E-00 1178622E-020 0 5832000E-04 5682100E-010 0
5916080E-00 1081067E-05 1800000E-02 6547900E-040 0 3818736E-05
0 0 5273000E-00
CASE NUMBER 660
6830520E-010 0 0 1897367E-01 2180000E-01 3415260E-02 1000000E-04
3162278E-00 1229484E-030 0 5832000E-04 5682100E-010 0
6000000E-00 1108544E-05 1800000E-02 6830520E-040 0 3983559E-05
0 0 5343000E-00
CASE NUMBER 661
2886751E-000 0 0 5832000E-04 5196152E-010 0 1728000E-04
0 0 1800000E-020 0 0
0 0 3172000E-00
CASE NUMBER 662
353534E-000 0 0 7071068E-00 1020621E-00 1272792E-02 1728000E-04
2886751E-00 6363961E-010 0 5832000E-04 5196152E-010 0
2041241E-00 4123847E-04 1800000E-02 6109403E-030 0 2061923E-04
0 0 3511000E-00
CASE NUMBER 663
1000000E-010 0 0 1000000E-01 2886751E-00 1800000E-02 1728000E-04
2886751E-00 1800000E-020 0 5832000E-04 5196152E-010 0
2886751E-00 5832000E-04 1800000E-02 1728000E-040 0 5832000E-04
0 0 5832000E-00
CASE NUMBER 664
1837117E-010 0 0 1224745E-01 5203301E-00 2204541E-02 1728000E-04
2886751E-00 3306811E-020 0 5832000E-04 5196152E-010 0
353534E-00 7142712E-04 1800000E-02 3174539E-040 0 1071407E-05
0 0 4074000E-00

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DATA INPUT
CASE NUMBER 665
2886751E-010 0 0 1414214E-01 8184666E-00 2545584E-02 1728000E-04
2886751E-00 5091169E-020 0 5832000E-04 5196152E-010 0
4082483E-00 8247633E-04 1800000E-02 4887522E-040 0 1649539E-05
0 0 4243000E-00
CASE NUMBER 666
3952847E-010 0 0 1581138E-01 250000E-01 2846050E-02 1728000E-04
2886751E-00 7115125E-020 0 5832000E-04 5196152E-010 0
4564355E-00 8221202E-04 1800000E-02 2952847E-040 0 2305300E-05
0 0 4467000E-00
CASE NUMBER 667
5196152E-010 0 0 1732051E-01 1643168E-01 3117691E-02 1728000E-04
2886751E-00 9353074E-020 0 5832000E-04 5196152E-010 0
5000000E-00 1010132E-05 1800000E-02 5196152E-040 0 3030396E-05
0 0 4797000E-00
CASE NUMBER 668
5458113E-010 0 0 1760682E-01 1575622E-01 3169227E-02 1728000E-04
2886751E-00 9824604E-020 0 5832000E-04 5196152E-010 0
5082650E-00 1026830E-05 1800000E-02 9431620E-040 0 3183172E-05
0 0 5196000E-00
CASE NUMBER 669
5724334E-010 0 0 1788854E-01 1652473E-01 3219938E-02 1728000E-04
2886751E-00 1030380E-030 0 5832000E-04 5196152E-010 0
5162978E-00 1043260E-05 1800000E-02 8891649E-040 0 3338432E-05
0 0 5286000E-00
CASE NUMBER 670
2626129E-000 0 0 5832000E-04 4727032E-010 0 3048625E-04
0 0 1800000E-020 0 0
0 0 3270000E-00
CASE NUMBER 671
353534E-000 0 0 7071068E-00 1020621E-00 1272792E-02 3048625E-04
2626129E-00 6363961E-010 0 5832000E-04 4727032E-010 0
1858953E-00 4123847E-04 1800000E-02 1077852E-040 0 2061923E-04
0 0 2821000E-00
CASE NUMBER 672
1000000E-010 0 0 1000000E-01 2886751E-00 1800000E-02 3048625E-04
2626129E-00 1800000E-020 0 5832000E-04 4727032E-010 0
2626129E-00 5832000E-04 1800000E-02 3048625E-040 0 5832000E-04
0 0 3975000E-00

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DATA INPUT
CASE NUMBER 673
1837117E+01 0. 0. 1224745E+01 6824500E+00 2204541E+02 3048625E+04
2626129E+00 3306811E+02 0. 5832000E+04 4727032E+01 0. 1071407E+05
3216338E+00 7142712E+04 1800000E+02 5600682E+04 0. 0. 0.
0. 0. 0. 4247000E+00 0. 0. 0.
CASE NUMBER 674
2828427E+01 0. 0. 1414214E+01 7427814E+00 2545584E+02 3048625E+04
2626129E+00 5091169E+02 0. 5832000E+04 4727032E+01 0. 0.
3713907E+00 8247693E+04 1800000E+02 8622814E+04 0. 0. 1649539E+05
0. 0. 0. 4562000E+00 0. 0. 0.
CASE NUMBER 675
3952847E+01 0. 0. 1581139E+01 1496036E+01 2846050E+02 3048625E+04
2626129E+00 7115125E+02 0. 5832000E+04 4727032E+01 0. 0.
4152274E+00 9221202E+04 1800000E+02 1205075E+05 0. 0. 2305300E+05
0. 0. 0. 4940000E+00 0. 0. 0.
CASE NUMBER 676
4192374E+01 0. 0. 1612452E+01 1100971E+01 2902413E+02 3048625E+04
2626129E+00 7546273E+02 0. 5832000E+04 4727032E+01 0. 0.
4234505E+00 9403817E+04 1800000E+02 1278098E+05 0. 0. 2444993E+05
0. 0. 0. 5029000E+00 0. 0. 0.
CASE NUMBER 677
0. 0. 1000000E+03 0. 0. 0. 3430000E+03
3779645E+00 0. 1000000E+05 0. 5832000E+04 6803361E+01 3430000E+07 3779645E+02
0. 0. 1800000E+02 0. 0. 3430000E+05 0. 0.
0. 0. 5832000E+06 2648000E+00 0. 0. 0.
CASE NUMBER 678
3535534E+00 3535534E+02 1000000E+03 7071068E+02 7071068E+00 1236306E+00 1272792E+02 3430000E+03
3779645E+00 6363961E+01 1000000E+05 3535534E+04 5832000E+04 6803361E+01 3430000E+07 3779645E+02
2626129E+00 4123847E+04 1800000E+02 1212688E+03 6363961E+03 3430000E+05 6363961E+05 2061922E+04
1272792E+04 1272792E+06 5832000E+06 2896000E+00 0. 0. 0.
CASE NUMBER 679
1000000E+01 1000000E+03 1000000E+03 1000000E+01 3779645E+00 1800000E+02 3430000E+03
3779645E+00 1800000E+02 1000000E+05 1000000E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
3779645E+00 5832000E+04 1800000E+02 3430000E+03 1800000E+04 3430000E+05 1800000E+06 5832000E+04
1800000E+04 1800000E+06 5832000E+06 3132000E+00 0. 0. 0.
CASE NUMBER 680
1837117E+01 1837117E+03 1000000E+03 1224745E+03 1224745E+01 6824500E+00 2204541E+02 3430000E+03
3779645E+00 3306811E+02 1000000E+05 827117E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
4629100E+00 7142712E+04 1800000E+02 6301312E+03 3306811E+04 3430000E+05 3306811E+06 1071407E+05
2204541E+04 2204541E+06 5832000E+06 3333000E+00 0. 0. 0.

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TRANSGENERATED
DATA INPUT
CASE NUMBER 681
2828427E+01 2828427E+03 1000000E+03 1414214E+03 1414214E+01 1066045E+01 2545584E+02 3430000E+03
3779645E+00 5091169E+02 1000000E+05 2828427E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
5345225E+00 8247693E+04 1800000E+02 9701505E+03 5091169E+04 3430000E+05 5091169E+06 1649539E+05
2545584E+04 2545584E+06 5832000E+06 3508000E+00 0. 0. 0.
CASE NUMBER 682
3952847E+01 3952847E+03 1000000E+03 1581139E+03 1581139E+01 1496036E+01 2846050E+02 3430000E+03
3779645E+00 7115125E+02 1000000E+05 3952847E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
5976143E+00 9221202E+04 1800000E+02 1355827E+04 7115125E+04 3430000E+05 7115125E+06 2305300E+05
2846050E+04 2846050E+06 5832000E+06 3722000E+00 0. 0. 0.
CASE NUMBER 683
5196152E+01 5196152E+03 1000000E+03 1732051E+03 1732051E+01 1963961E+01 3117691E+02 3430000E+03
3779645E+00 9353074E+02 1000000E+05 5196152E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
6546537E+00 1010132E+05 1800000E+02 1782280E+04 9353074E+04 3430000E+05 9353074E+06 3030396E+05
3117691E+04 3117691E+06 5832000E+06 3964000E+00 0. 0. 0.
CASE NUMBER 684
6547900E+01 6547900E+03 1000000E+03 1870829E+03 1870829E+01 2474874E+01 3367492E+02 3430000E+03
3779645E+00 1178622E+02 1000000E+05 6547900E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
7071068E+00 1091047E+05 1800000E+02 2245939E+04 1178622E+05 3430000E+05 1178622E+07 2818736E+05
3367492E+04 3367492E+06 5832000E+06 4242000E+00 0. 0. 0.
CASE NUMBER 685
8000000E+01 8000000E+03 1000000E+03 2000000E+03 2000000E+01 3023716E+01 3600000E+02 3430000E+03
3779645E+00 1440000E+05 1000000E+05 8000000E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
7559289E+00 1168400E+05 1800000E+02 2744000E+04 1440000E+05 3430000E+05 1440000E+07 4665600E+05
2600000E+04 2600000E+06 5832000E+06 4510000E+00 0. 0. 0.
CASE NUMBER 686
8301467E+01 8301467E+03 1000000E+03 2024846E+03 2024846E+01 3137811E+01 3644722E+02 3430000E+03
3779645E+00 1494336E+03 1000000E+05 8301467E+05 5832000E+04 6803361E+01 3430000E+07 3779645E+02
7652197E+00 1180950E+05 1800000E+02 2847540E+04 1494336E+05 3430000E+05 1494336E+07 4841641E+05
3644722E+04 3644722E+06 5832000E+06 4574000E+00 0. 0. 0.
CASE NUMBER 687
0. 0. 1000000E+03 0. 0. 0. 7290000E+03
3333333E+00 0. 1000000E+05 0. 5832000E+04 8000000E+01 7290000E+07 3333333E+02
0. 0. 1800000E+02 0. 0. 7290000E+05 0. 0.
0. 0. 5832000E+06 2750000E+00 0. 0. 0.
CASE NUMBER 688
3535534E+00 3535534E+02 1000000E+03 7071068E+02 7071068E+00 1178611E+00 1272792E+02 3430000E+03
3333333E+00 6363961E+01 1000000E+05 3535534E+04 5832000E+04 6000000E+01 7290000E+07 3333333E+02
2357023E+00 4123847E+04 1800000E+02 2577404E+03 6363961E+03 7290000E+05 6363961E+05 2061922E+04
1272792E+04 1272792E+06 5832000E+06 3019000E+00 0. 0. 0.

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TRANSGENERATED DATA INPUT

CASE NUMBER	688	GROUP NUMBER	1
1000000E+01	1000000E+03	1000000E+03	1000000E+03
3333333E+00	1800000E+02	1000000E+05	1000000E+05
3333333E+00	5832000E+04	1800000E+02	7290000E+03
1800000E+04	1800000E+06	5832000E+04	7290000E+05
1800000E+04	5832000E+06	3259000E+00	
CASE NUMBER	690	GROUP NUMBER	1
1837117E+01	1837117E+03	1000000E+03	1224745E+03
3333333E+00	3306811E+02	1000000E+05	1837117E+05
4082483E+00	7142712E+04	1800000E+02	1338358E+04
2204541E+04	2204541E+06	5832000E+04	3448000E+00
CASE NUMBER	691	GROUP NUMBER	1
2828427E+01	2828427E+03	1000000E+03	1414214E+03
3333333E+00	5091169E+02	1000000E+05	2828427E+05
4714045E+00	8247693E+04	1800000E+02	2061923E+04
2545584E+04	2545584E+06	5832000E+04	3667000E+00
CASE NUMBER	692	GROUP NUMBER	1
3952847E+01	3952847E+03	1000000E+03	1581139E+03
3333333E+00	7115125E+02	1000000E+05	3952847E+05
5270483E+00	9221202E+04	1800000E+02	2881426E+04
2846050E+04	2846050E+06	5832000E+04	3915000E+00
CASE NUMBER	693	GROUP NUMBER	1
5196152E+01	5196152E+03	1000000E+03	1732051E+03
3333333E+00	9353074E+02	1000000E+05	5196152E+05
5773503E+00	1010132E+04	1800000E+02	3787995E+04
3117891E+04	3117891E+06	5832000E+04	4201000E+00
CASE NUMBER	694	GROUP NUMBER	1
8547900E+01	8547900E+03	1000000E+03	1870829E+03
3333333E+00	1178822E+02	1000000E+05	8547900E+05
4236096E+00	6810575E+04	1800000E+02	4773418E+04
3367492E+04	3367492E+06	5832000E+04	4525000E+00
CASE NUMBER	695	GROUP NUMBER	1
6830520E+01	6830520E+03	1000000E+03	1897367E+03
3333333E+00	1229494E+02	1000000E+05	6830520E+05
6324555E+00	1106544E+04	1800000E+02	4978448E+04
3415260E+04	3415260E+06	5832000E+04	4589000E+00
CASE NUMBER	696	GROUP NUMBER	1
0	0	1000000E+03	0
3162278E+00	0	1000000E+05	5832000E+04
0	0	1800000E+02	5892100E+01
0	0	5832000E+06	2783000E+00

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TRANSGENERATED DATA INPUT

CASE NUMBER	697	GROUP NUMBER	1
3535534E+00	3535534E+02	1000000E+03	7071088E+02
3162278E+00	6363981E+01	1000000E+05	3535534E+04
2336086E+00	1132877E+04	1800000E+02	5355534E+03
1272782E+04	1272782E+06	5832000E+04	3054000E+00
CASE NUMBER	698	GROUP NUMBER	1
1000000E+01	1000000E+03	1000000E+03	1000000E+03
3162278E+00	1800000E+02	1000000E+05	5832000E+04
3162278E+00	5832000E+04	1800000E+02	1000000E+04
1800000E+04	1800000E+06	5832000E+04	3312000E+00
CASE NUMBER	699	GROUP NUMBER	1
1837117E+01	1837117E+03	1000000E+03	1224745E+03
3162278E+00	3306811E+02	1000000E+05	1837117E+05
3872983E+00	7142712E+04	1800000E+02	1837117E+04
2204541E+04	2204541E+06	5832000E+04	3517000E+00
CASE NUMBER	700	GROUP NUMBER	1
2828427E+01	2828427E+03	1000000E+03	1414214E+03
3162278E+00	5091169E+02	1000000E+05	2828427E+05
4472136E+00	8247693E+04	1800000E+02	2828427E+04
2545584E+04	2545584E+06	5832000E+04	3749000E+00
CASE NUMBER	701	GROUP NUMBER	1
3952847E+01	3952847E+03	1000000E+03	1581139E+03
3162278E+00	7115125E+02	1000000E+05	3952847E+05
5000000E+00	9221202E+04	1800000E+02	2852847E+04
2846050E+04	2846050E+06	5832000E+04	4014000E+00
CASE NUMBER	702	GROUP NUMBER	1
5196152E+01	5196152E+03	1000000E+03	1732051E+03
3162278E+00	9353074E+02	1000000E+05	5196152E+05
5477228E+00	1010132E+04	1800000E+02	5196152E+04
3117891E+04	3117891E+06	5832000E+04	4317000E+00
CASE NUMBER	703	GROUP NUMBER	1
8547900E+01	8547900E+03	1000000E+03	1870829E+03
3162278E+00	1178822E+02	1000000E+05	8547900E+05
5587784E+00	1028830E+04	1800000E+02	5458113E+04
3162278E+04	3162278E+06	5832000E+04	4380000E+00
CASE NUMBER	704	GROUP NUMBER	1
5724334E+01	5724334E+03	1000000E+03	1788854E+03
3162278E+00	1030380E+02	1000000E+05	5724334E+05
5656854E+00	1043260E+04	1800000E+02	5724334E+04
3219938E+04	3219938E+06	5832000E+04	4446000E+00

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CASE NUMBER 705
.5984748E-01 .5984748E-03 .1000000E-03 .1816590E-03 .1816590E-01 .1895706E-01 .3269862E-02 .1000000E-04
.3162278E-00 .1079055E-03 .1000000E-05 .5994748E-05 .5832000E-04 .5992100E-01 .1000000E-08 .3162278E-02
.5744563E-00 .1059435E-05 .1800000E-02 .5994748E-04 .1079055E-05 .1000000E-06 .1079055E-07 .3496137E-03
.3269862E-04 .3269862E-06 .5832000E-06 .4517000E-00
CASE NUMBER 706
0. 0. .1000000E-030. 0. 0. 0. 0. 1728000E-04
.2886751E-000. .1000000E-050. .5832000E-04. .5196152E-01. 1728000E-08. 2886751E-02
0. 0. .1800000E-020. 0. 0. 0. 0. 0.
0. 0. .5832000E-06. 2885000E-00
CASE NUMBER 707
.3535534E-00 .3535534E-02 .1000000E-03 .7071068E-02 .7071068E-00 .1020421E-00 .1272792E-02 .1728000E-04
.2886751E-00 .6263961E-01 .1000000E-05 .3535534E-04 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.2041241E-00 .4123847E-04 .1800000E-02 .6109403E-03 .6382981E-03 .1728000E-06 .6263961E-05 .2061923E-04
.1272792E-04 .1272792E-06 .5832000E-06 .3150000E-00
CASE NUMBER 708
.1000000E-01 .1000000E-03 .1000000E-03 .1000000E-03 .1000000E-01 .2886751E-00 .1800000E-02 .1728000E-04
.2886751E-00 .1800000E-02 .1000000E-05 .1000000E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.2886751E-00 .5832000E-04 .1800000E-02 .1728000E-04 .1800000E-04 .1728000E-06 .1800000E-06 .5832000E-04
.1800000E-04 .1800000E-06 .5832000E-06 .3425000E-00
CASE NUMBER 709
.1837117E-01 .1837117E-03 .1000000E-03 .1224745E-03 .1224745E-01 .5303701E-00 .2204541E-02 .1728000E-04
.2886751E-00 .3306811E-02 .1000000E-05 .1837117E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.3535534E-00 .7142712E-04 .1800000E-02 .3174528E-04 .3306811E-04 .1728000E-06 .3306811E-06 .1071407E-05
.2204541E-04 .2204541E-06 .5832000E-06 .3694000E-00
CASE NUMBER 710
.2828427E-01 .2828427E-03 .1000000E-03 .1414214E-03 .1414214E-01 .8164966E-00 .2545584E-02 .1728000E-04
.2886751E-00 .5091169E-02 .1000000E-05 .2828427E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4082493E-00 .8247693E-04 .1800000E-02 .4887522E-04 .5091169E-04 .1728000E-06 .5091169E-06 .1649539E-05
.2545584E-04 .2545584E-06 .5832000E-06 .3914000E-00
CASE NUMBER 711
.3952847E-01 .3952847E-03 .1000000E-03 .1581139E-03 .1581139E-01 .1141089E-01 .2846050E-02 .1728000E-04
.2886751E-00 .7115125E-02 .1000000E-05 .3952847E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4564355E-00 .8221202E-04 .1800000E-02 .6830520E-04 .7115125E-04 .1728000E-06 .7115125E-06 .2305200E-05
.2846050E-04 .2846050E-06 .5832000E-06 .4209000E-00
CASE NUMBER 712
.4192274E-01 .4192274E-03 .1000000E-03 .1612452E-03 .1612452E-01 .1270234E-01 .2902613E-02 .1728000E-04
.2886751E-00 .7546273E-02 .1000000E-05 .4192274E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4654747E-00 .9403817E-04 .1800000E-02 .7244422E-04 .7546273E-04 .1728000E-06 .7546273E-06 .2444992E-05
.2902613E-04 .2902613E-06 .5832000E-06 .4274000E-00

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DATA INPUT

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CASE NUMBER 713
.4436532E-01 .4436532E-03 .1000000E-03 .1643168E-03 .1643168E-01 .1280722E-01 .2957702E-02 .1728000E-04
.2886751E-00 .7985795E-02 .1000000E-05 .4436532E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4743416E-00 .5582954E-04 .1800000E-02 .7688383E-04 .7985795E-04 .1728000E-06 .7985795E-06 .2587398E-05
.2957702E-04 .2957702E-06 .5832000E-06 .4339000E-00
CASE NUMBER 714
.4685296E-01 .4685296E-03 .1000000E-03 .1673320E-03 .1673320E-01 .1352528E-01 .3011976E-02 .1728000E-04
.2886751E-00 .8433533E-02 .1000000E-05 .4685296E-05 .5832000E-04 .5196152E-01 .1728000E-08 .2886751E-02
.4830459E-00 .9758803E-04 .1800000E-02 .8096192E-04 .8433533E-04 .1728000E-06 .8433533E-06 .2732465E-05
.3011976E-04 .3011976E-06 .5832000E-06 .4405000E-00
CASE NUMBER 715
0. 0. .1000000E-030. 0. 0. 0. 0. 3048625E-04
.2626129E-000. .1000000E-050. .5832000E-04. .4727032E-01. 3048625E-08. 2626129E-02
0. 0. .1800000E-020. 0. 0. 0. 0. 0.
0. 0. .5832000E-06. 2987000E-00
CASE NUMBER 716
.3535534E-00 .3535534E-02 .1000000E-03 .7071068E-02 .7071068E-00 .9284757E-01 .1272792E-02 .3048625E-04
.2626129E-00 .6263961E-01 .1000000E-05 .3535534E-04 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.1854953E-00 .4123847E-04 .1800000E-02 .1077852E-04 .6263961E-02 .3048625E-06 .6263961E-05 .2061923E-04
.1272792E-04 .1272792E-06 .5832000E-06 .3289000E-00
CASE NUMBER 717
.1000000E-01 .1000000E-03 .1000000E-03 .1000000E-03 .1000000E-01 .2626129E-00 .1800000E-02 .3048625E-04
.2626129E-00 .1800000E-02 .1000000E-05 .1000000E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.2626129E-00 .5832000E-04 .1800000E-02 .3048625E-04 .1800000E-04 .3048625E-06 .1800000E-06 .5832000E-04
.1800000E-04 .1800000E-06 .5832000E-06 .3571000E-00
CASE NUMBER 718
.1837117E-01 .1837117E-03 .1000000E-03 .1224745E-03 .1224745E-01 .4824506E-00 .2204541E-02 .3048625E-04
.2626129E-00 .3306811E-02 .1000000E-05 .1837117E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.3214238E-00 .7142712E-04 .1800000E-02 .5600682E-04 .3306811E-04 .3048625E-06 .3306811E-06 .1071407E-05
.2204541E-04 .2204541E-06 .5832000E-06 .2831000E-00
CASE NUMBER 719
.2828427E-01 .2828427E-03 .1000000E-03 .1414214E-03 .1414214E-01 .7427814E-00 .2545584E-02 .3048625E-04
.2626129E-00 .5091169E-02 .1000000E-05 .2828427E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.3713907E-00 .8247693E-04 .1800000E-02 .8622814E-04 .5091169E-04 .3048625E-06 .5091169E-06 .1649539E-05
.2545584E-04 .2545584E-06 .5832000E-06 .4118000E-00
CASE NUMBER 720
.3043189E-01 .3043189E-03 .1000000E-03 .1449138E-03 .1449138E-01 .7991806E-00 .2608448E-02 .3048625E-04
.2626129E-00 .5477740E-02 .1000000E-05 .3043189E-05 .5832000E-04 .4727032E-01 .3048625E-08 .2626129E-02
.3095622E-00 .8451371E-04 .1800000E-02 .9277542E-04 .5477740E-04 .3048625E-06 .5477740E-06 .1774788E-05
.2608448E-04 .2608448E-06 .5832000E-06 .4178000E-00

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DATA INPUT
CASE NUMBER 721
GROUP NUMBER 1
3263127E-01 3263127E-03 1000000E-03 1483240E-03 1483240E-01 8589392E-00 2648831E-02 3048625E-04
2626129E-00 5873629E-02 1000000E-05 3263127E-05 5832000E-04 4727032E-01 3048625E-08 2626129E-02
3895178E-00 8650254E-04 1000000E-02 3948052E-04 5873629E-04 3048625E-06 5873629E-08 1803056E-05
2648831E-04 2648831E-06 5832000E-06 4240000E-00
CASE NUMBER 722
GROUP NUMBER 1
3488123E-01 3488123E-02 1000000E-03 1516575E-03 1516575E-01 9160259E-00 272835E-02 3048625E-04
2626129E-00 6278621E-02 1000000E-05 3488123E-05 5832000E-04 4727032E-01 3048625E-08 2626129E-02
3982721E-00 8844666E-04 1800000E-02 1063398E-05 6278621E-04 3048625E-06 6278621E-08 2024273E-05
272835E-04 272835E-06 5832000E-06 4307000E-00
CASE NUMBER 723
GROUP NUMBER 1
0 0 2000000E-030 0 0 0 3430000E-03
3779645E-00 0 4000000E-050 5832000E-04 6803361E-01 1372000E-08 7559289E-02
0 0 1800000E-020 0 0 0 0
0 0 1166400E-07 2515000E-00
CASE NUMBER 724
GROUP NUMBER 1
3535534E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1336306E-00 1272792E-02 3430000E-03
3779645E-00 6382961E-01 4000000E-05 1414214E-05 5832000E-04 6803361E-01 1372000E-08 7559289E-02
2672612E-00 4123847E-04 1800000E-02 1212888E-03 1272792E-04 6860000E-05 2545584E-06 2061923E-04
2545584E-04 5091169E-06 1166400E-07 2724000E-00
CASE NUMBER 725
GROUP NUMBER 1
1800000E-01 2000000E-03 2000000E-03 2000000E-01 3779645E-00 1800000E-02 3430000E-03
3779645E-00 1800000E-02 4000000E-05 4000000E-05 5832000E-04 6803361E-01 1372000E-08 7559289E-02
3779645E-00 5832000E-04 1800000E-02 3430000E-03 3600000E-04 6860000E-05 7200000E-06 5832000E-04
3600000E-04 7200000E-06 1166400E-07 2867000E-00
CASE NUMBER 726
GROUP NUMBER 1
837117E-01 2674235E-03 2000000E-03 2449490E-03 1224745E-01 6943651E-00 2204541E-02 3430000E-03
3779645E-00 3306811E-02 4000000E-05 7348469E-05 5832000E-04 6803361E-01 1372000E-08 7559289E-02
4629100E-00 7142712E-04 1800000E-02 6301312E-03 6613622E-04 6860000E-05 1322724E-07 1071407E-05
4609822E-04 6818153E-08 1166400E-07 3021000E-00
CASE NUMBER 727
GROUP NUMBER 1
2828427E-01 5656894E-03 2000000E-03 2828427E-03 1414214E-01 1069045E-01 2545584E-02 3430000E-03
3779645E-00 5091169E-02 4000000E-05 1131371E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
5345225E-00 8247693E-04 1800000E-02 8701505E-03 1018234E-05 6860000E-05 2036468E-07 1649538E-05
5091169E-04 1018234E-07 1166400E-07 3212000E-00
CASE NUMBER 728
GROUP NUMBER 1
2952847E-01 7905894E-03 2000000E-03 3162278E-03 158139E-01 1494026E-01 2846050E-02 3430000E-03
3779645E-00 715125E-02 4000000E-05 158139E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
5976143E-00 9221202E-04 1800000E-02 1355827E-04 1423025E-05 6860000E-05 2846050E-07 2305300E-05
5992100E-04 1138420E-07 1166400E-07 3417000E-00

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DATA INPUT
CASE NUMBER 729
GROUP NUMBER 1
5196152E-01 1039230E-04 2000000E-03 3464102E-03 1732051E-01 1963961E-01 3117691E-02 3430000E-03
3779645E-00 8232074E-02 4000000E-05 2078461E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
6548537E-00 1010132E-05 1800000E-02 1782280E-04 1870615E-05 6860000E-05 3741230E-07 2030396E-05
6235333E-04 747077E-07 1166400E-07 3645000E-00
CASE NUMBER 730
GROUP NUMBER 1
6547900E-01 1308580E-04 2000000E-03 3741657E-03 1876829E-01 2474874E-01 3367482E-02 3430000E-03
3779645E-00 1178622E-03 4000000E-05 2619150E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7071068E-00 1081067E-05 1800000E-02 2245830E-04 2357244E-05 6860000E-05 4714488E-07 3818736E-05
6734883E-04 1248997E-07 1166400E-07 3915000E-00
CASE NUMBER 731
GROUP NUMBER 1
6830520E-01 1366104E-04 2000000E-03 3794733E-03 1897367E-01 2581694E-01 3415260E-02 3430000E-03
3779645E-00 1229494E-03 4000000E-05 2732208E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7171372E-00 1106544E-05 1800000E-02 2342888E-04 2458987E-05 6860000E-05 4917974E-07 3983559E-05
6830520E-04 1366104E-07 1166400E-07 3965000E-00
CASE NUMBER 732
GROUP NUMBER 1
7117092E-01 1423418E-04 2000000E-03 3847077E-03 1923538E-01 2490908E-01 3442368E-02 3430000E-03
3779645E-00 1281077E-03 4000000E-05 2846837E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7270292E-00 1121808E-05 1800000E-02 2441183E-04 2562152E-05 6860000E-05 5124308E-07 4150688E-05
6824738E-04 1384948E-07 1166400E-07 4015000E-00
CASE NUMBER 733
GROUP NUMBER 1
7407564E-01 1481513E-04 2000000E-03 3898718E-03 1948359E-01 2799796E-01 3508846E-02 3430000E-03
3779645E-00 1323361E-03 4000000E-05 2963025E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7387884E-00 1138686E-05 1800000E-02 2540794E-04 2666723E-05 6860000E-05 5233448E-07 4320091E-05
7017692E-04 1403538E-07 1166400E-07 4069000E-00
CASE NUMBER 734
GROUP NUMBER 1
7701882E-01 1548277E-04 2000000E-03 3949884E-03 1974842E-01 2911038E-01 3554715E-02 3430000E-03
3779645E-00 1386336E-03 4000000E-05 3080753E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7484200E-00 1151728E-05 1800000E-02 2641746E-04 2772678E-05 6860000E-05 5545356E-07 4481738E-05
7109430E-04 1421866E-07 1166400E-07 4125000E-00
CASE NUMBER 735
GROUP NUMBER 1
8000000E-01 1600000E-04 2000000E-03 4000000E-03 2000000E-01 3023716E-01 3600000E-02 3430000E-03
3779645E-00 1440000E-03 4000000E-05 3200000E-06 5832000E-04 6803361E-01 1372000E-08 7559289E-02
7559289E-00 1166400E-05 1800000E-02 2744000E-04 2980000E-05 6860000E-05 5760000E-07 4865600E-05
7200000E-04 1440000E-07 1166400E-07 4184000E-00
CASE NUMBER 736
GROUP NUMBER 1
0 0 2000000E-030 0 0 0 7200000E-03
3333333E-000 4000000E-050 5832000E-04 6000000E-01 2816000E-08 6666667E-02
0 0 1800000E-020 0 0 0 0
0 0 1166400E-07 2572000E-00

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DATA INPUT

CASE NUMBER 737 GROUP NUMBER 1
353533E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1178511E-00 1272782E-02 7290000E-03
333333E-00 636363E-01 4000000E-05 1414214E-05 5832000E-04 6000000E-01 2916000E-08 666667E-02
255702E-00 4122847E-04 1800000E-02 2577404E-03 1272782E-04 1458000E-06 2545584E-06 2061823E-04
2545584E-04 5091169E-06 1166400E-07 2799000E-00
CASE NUMBER 738 GROUP NUMBER 1
1000000E-01 2000000E-03 2000000E-03 2000000E-03 1000000E-01 333333E-00 1800000E-02 7290000E-03
333333E-00 1800000E-02 4000000E-05 4000000E-05 5832000E-04 6000000E-01 2916000E-08 666667E-02
333333E-00 5832000E-04 1800000E-02 7290000E-03 3600000E-04 1458000E-06 7200000E-06 5832000E-04
3600000E-04 7200000E-06 1166400E-07 2977000E-00
CASE NUMBER 739 GROUP NUMBER 1
1837117E-01 3674235E-03 2000000E-03 2449490E-03 1224745E-01 6123724E-00 2204541E-02 7290000E-03
333333E-00 3306811E-02 4000000E-05 7348469E-05 5832000E-04 6000000E-01 2916000E-08 666667E-02
4082482E-00 7142712E-04 1800000E-02 1339259E-04 6613622E-04 1458000E-06 1222724E-07 1071407E-05
4409082E-04 8818163E-06 1166400E-07 3163000E-00
CASE NUMBER 740 GROUP NUMBER 1
2828427E-01 5656854E-03 2000000E-03 2828427E-03 1414214E-01 9428090E-00 2545584E-02 7290000E-03
333333E-00 5091169E-02 4000000E-05 1131371E-06 5832000E-04 6000000E-01 2916000E-08 666667E-02
4714045E-00 8247893E-04 1800000E-02 2061823E-04 1018234E-05 1458000E-06 2036468E-07 1649539E-05
5091169E-04 1018234E-07 1166400E-07 3372000E-00
CASE NUMBER 741 GROUP NUMBER 1
3952847E-01 7905694E-03 2000000E-03 3162278E-03 1581139E-01 1317616E-01 2846050E-02 7290000E-03
333333E-00 7115125E-02 4000000E-05 1581139E-06 5832000E-04 6000000E-01 2916000E-08 666667E-02
5270482E-00 9221202E-04 1800000E-02 2881626E-04 1423025E-05 1458000E-06 2846050E-07 2305300E-05
5492100E-04 1138420E-07 1166400E-07 3606000E-00
CASE NUMBER 742 GROUP NUMBER 1
5186152E-01 1039230E-04 2000000E-03 3464102E-03 1732051E-01 1732051E-01 3117691E-02 7290000E-03
333333E-00 9353074E-02 4000000E-05 2078461E-06 5832000E-04 6000000E-01 2916000E-08 666667E-02
5773503E-00 1010132E-05 1800000E-02 3787883E-04 1870615E-05 1458000E-06 3741230E-07 3030396E-05
8235393E-04 1247077E-07 1166400E-07 3980000E-00
CASE NUMBER 743 GROUP NUMBER 1
5458113E-01 1081623E-04 2000000E-03 3521363E-03 1760582E-01 1819371E-01 3159227E-02 7290000E-03
333333E-00 9824604E-02 4000000E-05 2183245E-04 5832000E-04 6000000E-01 2916000E-08 666667E-02
5868939E-00 1028830E-05 1800000E-02 3978965E-04 1864921E-05 1458000E-06 3829842E-07 3183172E-05
6328454E-04 1267591E-07 1166400E-07 3940000E-00
CASE NUMBER 744 GROUP NUMBER 1
5724334E-01 1144867E-04 2000000E-03 3577709E-03 1788854E-01 1908111E-01 3219938E-02 7290000E-03
333333E-00 1030380E-05 4000000E-05 2289734E-04 5832000E-04 6000000E-01 2916000E-08 666667E-02
5882848E-00 1043200E-05 1800000E-02 4173040E-04 2060760E-05 1458000E-06 4121520E-07 3378432E-05
6439876E-04 1287975E-07 1166400E-07 4002000E-00

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CASE NUMBER 745 GROUP NUMBER 1
5894748E-01 1198950E-04 2000000E-03 3633180E-03 1816590E-01 1998249E-01 3269867E-02 7290000E-03
333333E-00 1076055E-02 4000000E-05 2397899E-03 5832000E-04 6000000E-01 2916000E-08 666667E-02
8055301E-00 1059435E-05 1800000E-02 4370171E-04 2158109E-05 1458000E-06 4316218E-07 3496137E-05
6539725E-04 3079455E-07 1166400E-07 4068000E-00
CASE NUMBER 746 GROUP NUMBER 1
6269280E-01 1251858E-04 2000000E-03 3487818E-03 1843809E-01 2089763E-01 3319026E-02 7290000E-03
333333E-00 1128472E-02 4000000E-05 2307718E-06 5832000E-04 6000000E-01 2916000E-08 666667E-02
6146363E-00 1075368E-05 1800000E-02 4570313E-04 2256944E-05 1458000E-06 4513888E-07 3656250E-05
6636072E-04 1227614E-07 1166400E-07 4131000E-00
CASE NUMBER 747 GROUP NUMBER 1
0 0 2000000E-03 0 0 0 1000000E-04
3162278E-00 4000000E-05 5832000E-04 5682100E-01 4000000E-08 6324555E-02
0 0 1800000E-02 0 2000000E-06 0
0 0 1166400E-07 2604000E-00
CASE NUMBER 748 GROUP NUMBER 1
353533E-00 7071068E-02 2000000E-03 1414214E-03 7071068E-00 1118034E-00 1272782E-02 1000000E-04
3162278E-00 4283961E-01 4000000E-05 1414214E-05 5832000E-04 5682100E-01 4000000E-08 6324555E-02
2236080E-00 4122847E-04 1800000E-02 3535334E-03 1272782E-04 2000000E-06 2545584E-06 2061823E-04
2545584E-04 5091169E-06 1166400E-07 2838000E-00
CASE NUMBER 749 GROUP NUMBER 1
1000000E-01 2000000E-03 2000000E-03 2000000E-03 1000000E-01 3162278E-00 1800000E-02 1000000E-04
3162278E-00 1800000E-02 4000000E-05 4000000E-05 5832000E-04 5682100E-01 4000000E-08 6324555E-02
3162278E-00 5832000E-04 1800000E-02 1000000E-04 3600000E-04 2000000E-06 7200000E-06 5832000E-04
3600000E-04 7200000E-06 1166400E-07 3038000E-00
CASE NUMBER 750 GROUP NUMBER 1
1837117E-01 3674235E-03 2000000E-03 2449490E-03 1224745E-01 6123724E-00 2204541E-02 1000000E-04
3162278E-00 3306811E-02 4000000E-05 7348469E-05 5832000E-04 6000000E-01 2916000E-08 666667E-02
3872983E-00 7142712E-04 1800000E-02 1837117E-04 6613622E-04 2000000E-06 1222724E-07 1071407E-05
4409082E-04 8818163E-06 1166400E-07 3233000E-00
CASE NUMBER 751 GROUP NUMBER 1
2828427E-01 5656854E-03 2000000E-03 2828427E-03 1414214E-01 9444272E-00 2545584E-02 1000000E-04
3162278E-00 5091169E-02 4000000E-05 1131371E-06 5832000E-04 5682100E-01 4000000E-08 6324555E-02
4872136E-00 8247893E-04 1800000E-02 2828427E-04 1018234E-05 2000000E-06 2036468E-07 1649539E-05
5091169E-04 1018234E-07 1166400E-07 3451000E-00
CASE NUMBER 752 GROUP NUMBER 1
3952847E-01 7905694E-03 2000000E-03 3162278E-03 1581139E-01 1350000E-01 2846050E-02 1000000E-04
3162278E-00 7115125E-02 4000000E-05 1581139E-06 5832000E-04 5682100E-01 4000000E-08 6324555E-02
5000000E-00 9221202E-04 1800000E-02 2828427E-04 1423025E-05 2000000E-06 2846050E-07 2305300E-05
5492100E-04 1138420E-07 1166400E-07 3704000E-00

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DATA INPUT
CASE NUMBER 753
GROUP NUMBER 1
.5186152E+01 .1839230E+04 .2000000E+03 .3484102E+03 .1732651E+01 .1849168E+01 .3117691E+02 .1000000E+04
.2162278E+00 .9353078E+02 .4000000E+05 .2078481E+08 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.5477226E+00 .1010132E+05 .1800000E+02 .5196152E+04 .1870615E+05 .2000000E+06 .3741230E+07 .3030386E+05
.8235383E+04 .1247077E+07 .1166400E+07 .3988000E+00
CASE NUMBER 754
GROUP NUMBER 1
.5458113E+01 .0916232E+04 .2000000E+03 .3521363E+03 .1760682E+01 .1726007E+01 .3169227E+02 .1000000E+04
.2162278E+00 .9324604E+02 .4000000E+05 .2183245E+08 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.5567784E+00 .1026830E+05 .1800000E+02 .5458113E+04 .1964921E+05 .2000000E+06 .3829842E+07 .3183172E+05
.6338454E+04 .1267891E+07 .1166400E+07 .4062000E+00
CASE NUMBER 755
GROUP NUMBER 1
.0 .2000000E+03 .0 .0 .0 .0 .0 .0
.2886751E+00 .4000000E+05 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.0 .1800000E+02 .0 .0 .3456000E+06 .0
.0 .1166400E+07 .2669000E+00
CASE NUMBER 756
GROUP NUMBER 1
.353534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .1022621E+00 .1272792E+02 .1728000E+04
.2886751E+00 .6383961E+01 .4000000E+05 .1414214E+03 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.2041241E+00 .4123847E+04 .1800000E+02 .6109403E+03 .1272792E+04 .3456000E+06 .2545584E+06 .2061923E+04
.2545584E+04 .5091169E+06 .1166400E+07 .2922000E+00
CASE NUMBER 757
GROUP NUMBER 1
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .2886751E+00 .1800000E+02 .1728000E+04
.2886751E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.2886751E+00 .5832000E+04 .1800000E+02 .1728000E+04 .3600000E+04 .3456000E+06 .7200000E+06 .5832000E+04
.3600000E+04 .7200000E+06 .1166400E+07 .3157000E+00
CASE NUMBER 758
GROUP NUMBER 1
.1837117E+01 .3674235E+03 .2000000E+03 .2449480E+03 .1224745E+01 .5303301E+00 .2204541E+02 .1728000E+04
.2886751E+00 .3304811E+02 .4000000E+05 .7348489E+05 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.353534E+00 .7142712E+04 .1800000E+02 .3174538E+04 .6613622E+04 .3456000E+06 .1322724E+07 .1071407E+05
.4409082E+04 .8818163E+06 .1166400E+07 .3369000E+00
CASE NUMBER 759
GROUP NUMBER 1
.2828427E+01 .5658054E+03 .2000000E+03 .2828427E+03 .1414214E+01 .8164866E+00 .2545584E+02 .1728000E+04
.2886751E+00 .5091169E+02 .4000000E+05 .1131371E+06 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.4082482E+00 .8247693E+04 .1800000E+02 .4887522E+04 .1018234E+05 .3456000E+06 .2036488E+07 .1649539E+05
.5091169E+04 .1018234E+07 .1166400E+07 .3613000E+00
CASE NUMBER 760
GROUP NUMBER 1
.3952847E+01 .7905694E+03 .2000000E+03 .3162278E+03 .1581139E+01 .1141089E+01 .2846050E+02 .1728000E+04
.2886751E+00 .7115125E+02 .4000000E+05 .1581139E+06 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.4584355E+00 .9221202E+04 .1800000E+02 .6830520E+04 .1423025E+05 .3456000E+06 .2846050E+07 .2305300E+05
.5892100E+04 .1178420E+07 .1166400E+07 .3897000E+00

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DATA INPUT
CASE NUMBER 761
GROUP NUMBER 1
.4192374E+01 .8384748E+03 .2000000E+03 .3224903E+03 .1612452E+01 .1210234E+01 .2902413E+02 .1728000E+04
.2886751E+00 .7546273E+02 .4000000E+05 .1678950E+06 .5832000E+04 .5196152E+01 .6912000E+08 .5773503E+02
.4659747E+00 .9403817E+04 .1800000E+02 .7244422E+04 .1509255E+05 .3456000E+06 .3018509E+07 .2444993E+05
.5804826E+04 .1100965E+07 .1166400E+07 .2858000E+00
CASE NUMBER 762
GROUP NUMBER 1
.0 .2000000E+03 .0 .0 .0 .0 .0 .0
.2626129E+00 .4000000E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.0 .1800000E+02 .0 .0 .6097250E+06 .0
.0 .1166400E+07 .2765000E+00
CASE NUMBER 763
GROUP NUMBER 1
.353534E+00 .7071068E+02 .2000000E+03 .1414214E+03 .7071068E+00 .9284767E+01 .1272792E+02 .3048625E+04
.2886751E+00 .6383961E+01 .4000000E+05 .1414214E+03 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.1858953E+00 .4123847E+04 .1800000E+02 .1077853E+04 .1272792E+04 .6097250E+06 .2545584E+06 .2061923E+04
.2545584E+04 .5091169E+06 .1166400E+07 .3034000E+00
CASE NUMBER 764
GROUP NUMBER 1
.1000000E+01 .2000000E+03 .2000000E+03 .2000000E+03 .1000000E+01 .2626129E+00 .1800000E+02 .3048625E+04
.2626129E+00 .1800000E+02 .4000000E+05 .4000000E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.2626129E+00 .5832000E+04 .1800000E+02 .3048625E+04 .3600000E+04 .3456000E+06 .7200000E+06 .5832000E+04
.3600000E+04 .7200000E+06 .1166400E+07 .3289000E+00
CASE NUMBER 765
GROUP NUMBER 1
.1837117E+01 .3674235E+03 .2000000E+03 .2449480E+03 .1224745E+01 .4824508E+00 .2204541E+02 .3048625E+04
.2626129E+00 .3642944E+02 .4000000E+05 .8095431E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3216338E+00 .7142712E+04 .1800000E+02 .5400682E+04 .6613622E+04 .6097250E+06 .1322724E+07 .1071407E+05
.4409082E+04 .8818163E+06 .1166400E+07 .3538000E+00
CASE NUMBER 766
GROUP NUMBER 1
.2022859E+01 .4047715E+03 .2000000E+03 .2528822E+03 .1264911E+01 .5214911E+00 .2276840E+02 .3048625E+04
.2626129E+00 .3642944E+02 .4000000E+05 .8095431E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3216338E+00 .7378961E+04 .1800000E+02 .6169883E+04 .7289888E+04 .6097250E+06 .1457178E+07 .1180314E+05
.4553680E+04 .9107380E+06 .1166400E+07 .3595000E+00
CASE NUMBER 767
GROUP NUMBER 1
.2216559E+01 .4433058E+03 .2000000E+03 .2607681E+03 .1303800E+01 .5820880E+00 .2346813E+02 .3048625E+04
.2626129E+00 .3642944E+02 .4000000E+05 .8866113E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3424053E+00 .7603988E+04 .1800000E+02 .6757365E+04 .7878904E+04 .6097250E+06 .1895801E+07 .1292680E+05
.4693828E+04 .9387651E+06 .1166400E+07 .3647000E+00
CASE NUMBER 768
GROUP NUMBER 1
.2414953E+01 .4829907E+03 .2000000E+03 .2683282E+03 .1341641E+01 .6341978E+00 .2414953E+02 .3048625E+04
.2626129E+00 .4348818E+02 .4000000E+05 .9659814E+05 .5832000E+04 .4727032E+01 .1219450E+09 .5252257E+02
.3523321E+00 .7824449E+04 .1800000E+02 .7162287E+04 .8882822E+04 .6097250E+06 .1728786E+07 .1408401E+05
.4829907E+04 .9659814E+06 .1166400E+07 .3701000E+00

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FRIDAY, JUL 2, 1976

TRANSGENERATED

DATA INPUT

CASE NUMBER 769

GROUP NUMBER 1

2618958E-01 5237838E-03 2000000E-03 2756810E-03 1278405E-01 8877750E-00 2481128E-02 3048625E-04
2626128E-00 4714145E-02 4000000E-05 1047588E-04 5832000E-04 4727032E-01 1219450E-08 5252257E-02
3619848E-00 8018857E-04 1800000E-02 7884255E-04 8428288E-04 6087250E-06 1885658E-07 1527383E-05
4962258E-04 8824515E-06 1166400E-07 3757000E-00

CASE NUMBER 770

GROUP NUMBER 1

2828427E-01 5656854E-03 2000000E-03 2828427E-03 1414214E-01 7427814E-00 2545584E-02 3048625E-04
2626128E-00 5081168E-02 4000000E-05 1131371E-06 5832000E-04 4727032E-01 1219450E-08 5252257E-02
3713907E-00 8247693E-04 1800000E-02 8622814E-04 1018234E-05 6087250E-06 2038468E-07 1649528E-05
5081168E-04 1018234E-07 1166400E-07 3814000E-00

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A P P E N D I X B

ANALYSIS OF COVARIANCE COMPUTER PROGRAM LISTING

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This section contains the FORTRAN source listings for program BMD04V and its associated subroutines, presented in the following order:

PROGRAM BMD04V

Subroutines

MINV

GRSPSEL

PATTY2

TG41

TPWD

WRT

LDAY

CONF

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```

PROGRAM BMD04V(INPUT,OUTPUT,TAPE4,TAPE5=INPUT,TAPE6=OUTPUT,TAPE1,
CTAPE2,TAPE3,TAPE7,TAPE8,TAPE9)
C
C BMD04V
C THIS IS A SIFTED VERSION OF BMD04V ORIGINALLY WRITTEN IN
C FORTRAN II. SOME MODIFICATIONS WERE MADE TO MAKE IT OPERABLE
C AND SLIGHTLY MORE EFFICIENT THAN THE SIFTED VERSION.
C
C CODE=PROBLEM IDENTIFICATION
C KVF=NO. OF VARIABLE FORMAT CARDS
C LYNN=NO. OF TREATMENT DEFINITION CARDS
C NADD=NO. OF VARIABLES TO BE ADDED AFTER TG
C NCARD=NO. OF CARDS/CASE
C NCASE=NO. OF CASES
C NCOV=NO. OF COVARIATES
C NDV=NO. OF THE DEPENDENT VARIABLE
C NGRPS=NO. OF TREATMENT GROUPS
C NTAPE=LOGICAL TAPE NO. FOR INPUT DATA
C NTG=NO. OF TG CARDS
C REP=REPROCESS SAME DATA MATRIX
C
C REAL KODE,NAMES,KKK
C DOUBLE PRECISION Z,DB,DE,DT
C DIMENSION NAMES(36),KKK(100),TMP(8),INDX(8),WHEN(3)
C DIMENSION NEW(99),JUMP(99),NA(99),BN(99),NSAM(99),FMT(80),
C DATA(100),NSUB(99,6),CONT(99,6),REL(99,6),OPER(99,6),NG(99),X(36),
C ZSSVAR(99,36),TOTX(36,36),TOTY(36),TREX(36,36),TREY(36),
C ZERRX(36,36),ENRRY(36),LLL(36),B(35),C(35),D(35),
C A5B(35),SEC(35),SED(35),ADY(99),SEADY(99),A(99),SS(99),YY(99)
C 5,INDEX(100),INDEX2(36),IX(8),Z(1229),ZY(35),IZ(35)
C 6,ERRC(36,36),TRECC(36,36),TOTCC(36,36),MCG(99),SDMG(99),VMG(99)
C COMMON DATA NSUB,CONT,REL,OPER,NG
C COMMON LH,NEW,JUMP,NA,BN,ERROR
C COMMON NVAR,NTG,NCASE
C COMMON /MT/A,B,C,D,SEB,SEC,SED,SSVAR,ADY,SEADY,VAC,WHEN
C SERI(1)=1-4*(X/1.414213562)+2*(X/1.817120593)+3
C 1-((X/2.213363039)+4*(X/2.605170851)+5*(X/2.993795166)+6
C 2-((X/3.380915111)+7*(X/3.7843506)+8*(X/4.171662721)+9
C 3-((X/4.528728687)+10*(X/4.98228779)+11*(X/5.38851694)+12
C 4-((X/5.667601177)+13*(X/6.045855167)+14*(X/6.423424746)+15
C 5-((X/6.800466801)+16*(X/7.17027252)+17*(X/7.55183862)+18
C 6-((X/7.928946849)+19*(X/8.304361204)+20*(X/8.679457224)+21
C 5 FORMAT('H')
C 3 FORMAT('H',10X,3A10)
102 FORMAT(' BMD04V - ANALYSIS OF COVARIANCE - MULTIPLE COVARIATES - R00000300
REVISED OCTOBER 2, 1974
203M HEALTH SCIENCES COMPUTING FACILITY, UCLA ( NADC REVIS)
30M JULY 2, 1976 J.J. FRANZ /J/
WRITE(6,5)
C
C ITAPE=2
C REWIND ITAPE
C IT3=3
C NTAPE=5
C JTAPE=7
C DATA A124/6HFINISH/,A125/6HSAMSIZ/,A126/6HGRPDEF/,A127/6HTRNGEN/00000370
C 1,A421/6HCVRSSEL,A521/6HLAB, P123/6HPROBLM/ 00000380
C DATA A123/3MYES/
C CALL LDAY(WHEN)
999 READ (5,100),TODE,CODE,NGRPS,NCASE,NCARD,NCOV,NADD,NDV,OUT,INAM,REP00000400
1,LYNN,WRES,TRES,VAR,SSQ,MCON,CORR,FCAST,REW,NTG,MTAPE,KVF
NIT=0 00000420
C
C IF(TODE .NE. A124) GO TO 1 00000430
2 IF(NTAPE .LE. 5) GO TO 4 00000440
C REWIND NTAPE 00000450
4 STOP 00000460
1 REWIND 8
C REWIND 9
C WRITE(6,3) WHEN
C Z000=0
C IF(TODE .NE. P123) GO TO 446 00000480
C IF(NGRPS .LE. 0) GO TO 436 00000490
C IF(NCOV .LT. 2) GO TO 498 00000500
C GO TO 400 00000510
446 WRITE (6,446) Z000,TODE 00000520
4466 FORMAT('NO. 66 60M CARD EXPECTED. THE FIRST SIX COLUMNS OF THE CARD 00000530
READ WERE :A61) 00000540
C GO TO 2 00000550
441 WRITE (6,441) 00000560
4411 FORMAT('40HILLEGAL NUMBER OF TRANSGENERATION CARDS) 00000570
C GO TO 2 00000580
1441 WRITE(6,2441) 00000590
2441 FORMAT('3THOPROBLEM HAS TOO MANY VARIABLES) 00000600
C GO TO 2 00000610
1442 WRITE(6,2442) 00000620
2442 FORMAT('44HILLEGAL NUMBER IN COL. 24-26 ON PROBLEM CARD.) 00000630
C GO TO 2 00000640
448 WRITE(6,448) 00000650
4488 FORMAT('55HVIOLATING EITHER RULE(2) OR RULE(5) ON PAGE 525 OF BMD) 00000660
C GO TO 2 00000670
491 WRITE(6,491) 00000680
4910 FORMAT('41HNUMBER OF GROUP DEFINITION CARDS ILLEGAL) 00000690
C GO TO 2 00000700
496 WRITE(6,496) 00000710
4969 FORMAT('25HILLEGAL NUMBER OF VARIATES READ IN) 00000720
C GO TO 2 00000730
456 WRITE(6,456) 00000740
4569 FORMAT('35HILLEGAL NUMBER OF TREATMENT GROUPS) 00000750
C GO TO 2 00000760
443 WRITE (6,443) 00000770
4443 FORMAT('60HTHE NUMBER OF THE INPUT TAPE CANNOT BE 2 OR 3 00000780
C GO TO 2 00000790
1440 WRITE(6,2440) 11
2440 FORMAT('64HOPROBLEM HAS TOO MANY VARIABLES FOR THE NUMBER OF CASES
IN GROUP.15)
C GO TO 2
401 WRITE (6,403) 00000800
C GO TO 2 00000810
400 WRITE (6,102) 00000820
C BACKSPACE 5
C READ (5,114) (IX(J),J=1,8)
C WRITE (6,98) (IX(J),J=1,8)
98 FORMAT('2,3A10,/)
C WRITE (6,103)CODE,NGRPS,NCASE,NCARD,NCOV,NADD,NDV,OUT, INAM,REP,LY00000830
C WRES,TRES,VAR,COAR,FCAST,REW,NTG,MTAPE,KVF
C IF(NCOV+NADD+NCOV+NADD-100)GE.0)GO TO 1441 00000850
C IF(NADD = 98) (NADD = 28)GE.0)GO TO 1442 00000860
C IF(MTAPE=ITAPE+INTAPE-173)EQ.0)GO TO 443 00000870
C IF(REW.EQ.A123)CALL TPOD(MTAPE,NTAPE)
C NVAR=NCOV 00000890
C K17=0 00000900
C REWIND 173 00000910

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REWIND JTAPE
ERROR=0
00000820
00 332 I=1.99 00000830
322 DATA(I)=0.0 00000840
00 333 I=1.36 00000850
NAMES(I)=0 00000860
INDEX(I)=0 00000870
333 INDEX2(I)=0 00000880
LH=NVAR+1+RAD 00000890
NVAR=LH-1 00000900
C
LA=NVAR 00001010
IF(LH.GE.28.OR.LH.LE.2)GO TO 1441 00001020
IF(KVF.GT.0.AND.KVF.LE.10)GO TO 410 00001030
WRITE (6,9999) 00001040
KVF = 1 00001050
410 ASSIGN 50 TO NSKIP 00001060
IF(NTG) 441,10,11 00001070
11 ASSIGN 48 TO NSKIP 00001080
IF(NTG.GT.99) GO TO 441 00001090
ZQQQ=A221 00001100
00 411 I=1,NTG 00001110
READ (5,106)TODE,NEW(I),JUMP(I),NA(I),BH(I) 00001120
IF(TODE.NE.A321) GO TO 446 00001130
IF(MOD(I,50).NE.1)GO TO 12 00001140
WRITE(6,3) WHEN 00001150
WRITE (6,104) 00001160
WRITE (6,105) 00001170
12 WRITE (6,107)I,NEW(I),JUMP(I),NA(I),BH(I) 00001180
IF((JUMP(I)-19)*JUMP(I)-19)*JUMP(I)-401.EQ. 0) GO TO 4115 00001190
IF(JUMP(I)-411411,411,4115 00001200
4111 IF((JUMP(I)-25)*(19-JUMP(I)) .LT. 0) GO TO 411 00001210
4115 WRITE (6,150)I 00001220
LYNN=99 00001230
411 CONTINUE 00001240
10 IF(LYNN)491,14,13 00001250
13 WRITE(6,3) WHEN 00001260
WRITE (6,110) 00001270
J=0 00001280
DATA STAR/4H 00001290
00 21 I=1,LYNN 00001300
READ (5,111)TODE,NG(I),NSUB(I,J),REL(I,J),CONT(I,J),OPER(I,J),J= 00001310
1,6) 00001320
ZQQQ=A126 00001330
IF(TODE.NE.A126) GO TO 446 00001340
00 16 L=1,6 00001350
IF(OPER(I,LL).NE.STAR)GO TO 16 00001360
IX=LL+1 00001370
IJ=IJ+IX 00001380
GO TO 18 00001390
16 CONTINUE 00001400
18 IF(IJ.LE.50)GO TO 19 00001410
IJ=IX 00001420
WRITE(6,3) WHEN 00001430
WRITE (6,110) 00001440
19 WRITE (6,112)NG(I) 00001450
00 22 J=1,6 00001460
WRITE (6,113)NSUB(I,J),REL(I,J),CONT(I,J),OPER(I,J) 00001470
IF(OPER(I,J) .EQ. STAR) GO TO 21 00001480
22 CONTINUE 00001490
21 CONTINUE 00001500

GO TO 15 00001370
14 NCARDS=(NCRPS+21)/22 00001380
N2=0 00001390
WRITE (6,3) WHEN 00001400
WRITE (6,155) 00001410
00 1450 J=1,NCARDS 00001420
N1=N2+1 00001430
N2=N2+22 00001440
IF(N2.LE.99) GO TO 1430 00001450
N2=99 00001460
1430 READ (5,108)TODE,(NSAM(I),I=1,N2) 00001470
WRITE (6,157)TODE,(NSAM(I),I=1,N2) 00001480
BACKSPACE 5 00001490
READ (5,108)TODE,(NSAM(I),I=1,N2) 00001500
ZQQQ=A125 00001510
IF(TODE.NE.A125) GO TO 446 00001520
1450 CONTINUE 00001530
15 IF(INAM)401,17,501 00001540
501 N1=0 00001550
WRITE(6,3) WHEN 00001560
WRITE(6,125) 00001570
503 READ(5,504)TODE,(INDX(I),TMP(I),I=1,7) 00001580
504 FORMAT(12,31,7(14,48)) 00001590
IF(TODE.NE.A521)GO TO 446 00001600
00 505 I=1,7 00001610
IF(INDX(I).EQ.0)GO TO 505 00001620
N1=N1+1 00001630
INDEX(I)=INDX(I) 00001640
KKK(N1)=TMP(I) 00001650
505 CONTINUE 00001660
BACKSPACE 5 00001670
READ(5,506)INDX(I),I=1,7) 00001680
WRITE(6,126)(INDX(I),TMP(I),I=1,7) 00001690
506 FORMAT(12,7(14,48)) 00001700
IF(N1.LT.INAM)GO TO 503 00001710
17 KVF=KVF+8 00001720
WRITE(6,3) WHEN 00001730
WRITE(6,1090) 00001740
READ (5,144)FNT(I),I=1,KVF) 00001750
WRITE(6,2091)FNT(I),I=1,KVF) 00001760
FORMAT(12,840) 00001770
209 IF( REP .EQ.A123) GO TO 37 00001780
N1=NCARD+NCASE 00001790
K173=1 00001800
IF(NTAPE.NE.5) GO TO 3777 00001810
00 25 I=1,K1 00001820
READ (NTAPE,114) (IX(I),J=1,8) 00001830
15 WRITE (173,114) (IX(I),J=1,8) 00001840
END FILE 173 00001850
KLAST=173 00001860
37 NTAPE=KLAST 00001870
3777 K17P=K173 00001880
IF(K17P.EQ.0) GO TO 38 00001890
REWIND JTAPE 00001900
38 IF(LYNN .GT. 0) GO TO 28 00001910
K17P=1 00001920
K17P=1 00001930
00 27 I=1,NCRPS 00001940
N1=NSAM(I) 00001950
00 27 J=1,NH 00001960

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      READ (NTAPE,FMT)(DATA(K),K=1,NVAR)
      DATA(100)=1
      WRITE(1TAPE)(DATA(K),K=1,NVAR),DATA(100)
27  CONTINUE
      GO TO 28
28  DO 29 I=1,99
29  NSAM(I)=0
      KNT=1
      DO 30 I=1,NCASE
      DATA(100)=0
      READ (NTAPE,FMT)(DATA(J),J=1,NVAR)
      DO 31 J=1,LYNH
      CALL GRPSEL(J)
      IF(I,GT,0) GO TO 299
      READ (5,151)KODE,NCO
      IF(NITP.EQ.0) GO TO 88
      REWIND 1TAPE
88  IF(NCO,GE,33) GO TO 999
      READ (5,151)KODE
      GO TO 999
299  IF(DATA(100).LE,0.) GO TO 31
      KK=NG(I)
      NSAM(KK)=NSAM(KK)+1
      NITP=1
      WRITE(1TAPE)(DATA(K),K=1,NVAR),DATA(100)
      GO TO 30
31  CONTINUE
30  CONTINUE
28  END FILE 1TAPE
      REWIND 1TAPE
      REWIND 1TAPE
      IF(LYNH,LE,0) GO TO 43
      JJ=0
      DO 39 I=1,99
39  NG(I)=0
      DO 40 I=1,99
      JFINSAM(I),LE,0) GO TO 40
      JJ=JJ+1
      NG(JJ)=NSAM(I)
      NSAM(I)=JJ
40  CONTINUE
      JF=MAXO(JJ,NGRPS)
      NGRPS=JJ
      J=0
      DO 45 I=1,JX
      NNG=0
      IF(NSAM(I),EQ,0)GO TO 41
      J=J+1
      NNG=NG(I)
41  IF(MOD(I,50).NE,1)GO TO 45
      WRITE(6,3) WHEN
      WRITE (6,115)
45  WRITE (6,116)I,NSAM(I),NNG
      GO TO 252
43  DO 251 I=1,NGRPS
251  NG(I)=NSAM(I)
252  NVAR=NVAR+NADD
      NCDV=NCDV+NADD-1
      DO 46 I=1,NVAR
      TOTRY(I)=0.0
      TREY(I)=0.0
      ERRY(I)=0.0
      DO 46 J=1,NVAR
      TOTEX(I,J)=0.0
      TREXX(I,J)=0.0
46  ERRXX(I,J)=0.0
      DO 47 I=1,NGRPS
      DO 47 J=1,NVAR
47  SSVAR(I,J)=0.0
      ASSIGN 480 TO MUD
      READ (5,152)TODE,NCO,(INDEX2(I),I=1,35)
      ZQQQ=A421
      IF(TODE,NE,A421) GO TO 446
      WRITE(6,3) WHEN
      WRITE (6,154)
      WRITE (6,153)TODE,NCO,(INDEX2(I),I=1,35)
      BACKSPACE 5
      READ (5,151)NCO,(INDEX2(I),I=1,35)
      IF(NCO,LE,32) GO TO 38
      READ (5,152)TODE,(INDEX2(I),I=33,35)
      IF(TODE,NE,A421) GO TO 446
      WRITE (6,153)TODE,(INDEX2(I),I=33,35)
      BACKSPACE 5
      READ (5,151)NCO,(INDEX2(I),I=33,35)
38  NNCO=NCO
      DO 44 I=1,NCO
      IF(INDEX2(I),LE,0) NNCO=NNCO-1
44  CONTINUE
      NCO=NNCO
      IF(NCO,GT,35,OR,(NGRPS=NCO+1),GT,NCASE) GO TO 448
      NCDV=NCO
      NVAR=NCO+1
      INDEX2(NVAR)=NDV
      IF(OUT,NE,A123) GO TO 475
      ASSIGN 417 TO MUD
      MESS=0
      LL=0
      IJ=50/(INCARD+1)
      IF(IJ,LE,0)IJ=1
      WRITE(6,3) WHEN
      WRITE (6,415)
      NITP=1
475  DO 48 II=1,NGRPS
      LG=NG(II)
      DO 48 M=1,LG
      READ(1TAPE)(DATA(L),L=1,LA,DATA(100)
      GO TO MUD,(490,417)
417  MESS=MESS+1
      K=DATA(100)
      LL=LL+1
      IF(LL,LE,IJ)GO TO 51
      LL=1
      WRITE(6,3) WHEN
      WRITE (6,415)
51  WRITE (6,418)MESS,K
      DO 52 L=1,NCARD
      READ (1TAPE,118)I(IKK),KK=1,8)
52  WRITE (6,250)I(IKK),KK=1,8)
490  GO TO NSRIP,(49,50)
49  CALL TGA(IJ,M)

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00002770
00002800
00002810

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50 K=DATA(100)
WRITE(JTAPE)(DATA(INDEX2(JJ)),JJ=1,NVAR),DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
DO 48 J=1,NVAR
I=INDEX2(J)
SSVAR(K,J)=SSVAR(K,J)+DATA(I)
DO 48 N=1,NVAR
L=INDEX2(N)
TOTX(J,N)=TOTX(J,N)+(DATA(I)+DATA(L))
48 CONTINUE
REWIND JTAPE
END FILE JTAPE
REWIND JTAPE
NT=0
DO 54 I=1,NGRPS
IL=1
IF((NG(I)-NCOV(I),LE.0)GO TO 1440
NT=NT+NG(I)
54 CONTINUE
DO 55 J=1,NVAR
X(J)=0.0
DO 55 I=1,NGRPS
X(J)=X(J)+SSVAR(I,J)/NT
55 X(J)=X(J)+SSVAR(I,J)/NT
BIG=NT
DO 58 I=1,NVAR
DO 58 J=1,NVAR
TOTX(I,J)=TOTX(I,J)-BIG*X(I)*X(J)
DO 58 N=1,NGRPS
T=NG(N)
TREX(I,J)=TREX(I,J)+(SSVAR(K,I)+SSVAR(K,J))/T
58 CONTINUE
TREX(I,J)=TREX(I,J)-BIG*X(I)*X(J)
58 ERRX(I,J)=TOTX(I,J)-TREX(I,J)
DO 59 I=1,NGRPS
D(I)=NG(I)
DO 59 J=1,NVAR
SSVAR(I,J)=SSVAR(I,J)/D(I)
59 SSVAR(I,J)=SSVAR(I,J)/D(I)
LL=0
IK=NVAR/6
IF((NVAR-IK*6).GT.0)IK=IK+1
J=50/(2*IK+3)
IF(J,LE.0)J=1
WRITE(6,3) WHEN
WRITE(6,117)
DO 62 LT=1,NVAR
LLL=LT+2M-1
I=INDEX2(LT)
DO 615 J=1,IK*6
IF(I.EQ. INDEX1(J)) GO TO 625
615 CONTINUE
NITP=1
WRITE(JTAPE,888)
REWIND JTAPE
READ(JTAPE,777)NAMES(LT)
REWIND JTAPE
GO TO 63
625 NAMES(LT)=KKK(J)
63 CONTINUE
DO 60 I=1,NGRPS
LL=LL+1

IF(ALL.LE.1)GO TO 53
LL=1
WRITE(6,3) WHEN
WRITE(6,117)
53 WRITE(6,118)
60 WRITE(6,119)(LLL(I),NAMES(I),SSVAR(I,J),J=1,NVAR)
WRITE(6,3) WHEN
WRITE(6,70)
DO 64 I=1,NVAR
WRITE(6,71) NAMES(I),X(I)
IF(CAST.EQ.8123) GO TO 99
IF(CORR.NE.8123) GO TO 120
DO 129 I=1,NVAR
DO 129 J=1,NVAR
TOTCC(I,J)=0
ERRCC(I,J)=0
TOT=TOTX(I,I)+TOTX(I,J)
TRE=TREX(I,I)+TREX(I,J)
ERR=ERRX(I,I)+ERRX(I,J)
IF(TOT.LE.0)GO TO 128
TOTCC(I,J)=TOTX(I,J)/SORT(TOT)
128 IF(TRE.LE.0)GO TO 125
TRECC(I,J)=TREX(I,J)/SORT(TRE)
125 IF(ERN.LE.0)GO TO 129
ERRCC(I,J)=ERRX(I,J)/SORT(ERN)
129 CONTINUE
WRITE(6,3) WHEN
WRITE(6,127)
WRITE(6,121)
CALL PATTY2(TOTCC,NVAR,NAMES,I,J)
WRITE(6,3) WHEN
WRITE(6,127)
WRITE(6,123)
CALL PATTY2(ERRCC,NVAR,NAMES,I,J)
130 WRITE(6,3) WHEN
WRITE(6,120)
WRITE(6,121)
CALL PATTY2(TOTX,NVAR,NAMES,I,J)
WRITE(6,3) WHEN
WRITE(6,120)
WRITE(6,122)
CALL PATTY2(TREX,NVAR,NAMES,I,J)
WRITE(6,3) WHEN
WRITE(6,120)
WRITE(6,123)
CALL PATTY2(ERRX,NVAR,NAMES,I,J)
DO 64 I=1,NVAR
TOTV(I)=TOTX(I,NVAR)
TREV(I)=TREX(I,NVAR)
64 ERRV(I)=ERRX(I,NVAR)
TOTV=TOTV/NVAR
TREV=TREV/NVAR
ERRV=ERRV/NVAR
K=0
DO 72 I=1,NCOV
DO 72 J=1,NCOV
K=K+1
72 Z(I)=CBLT(TOTX(I,I))
CALL MINV(Z,NCOV,DT,LY,IZ)

```

```

K=0
DO 73 I=1, NCDV
DO 73 J=1, NCDV
K=K+1
73 TOTXX(J,I)=SHGL(Z(K))
K=0
DO 74 I=1, NCDV
DO 74 J=1, NCDV
K=K+1
74 Z(K)=DBLE(TREXX(J,I))
CALL MINVIZ, NCDV, DB, IV, IZ)
K=0
DO 75 I=1, NCDV
DO 75 J=1, NCDV
K=K+1
75 TREXX(J,I)=SHGL(Z(K))
K=0
DO 76 I=1, NCDV
DO 76 J=1, NCDV
K=K+1
76 Z(K)=DBLE(ERRXX(J,I))
CALL MINVIZ, NCDV, DE, IV, IZ)
K=0
DO 77 I=1, NCDV
DO 77 J=1, NCDV
K=K+1
77 ERRXX(J,I)=SHGL(Z(K))
WRITE(6,3) WHEN
WRITE (6,124)
WRITE (6,121)
CALL PATTY2(TOTXX, NCDV, NAMES, SHGL(DT))
WRITE(6,3) WHEN
WRITE (6,124)
WRITE (6,122)
CALL PATTY2(TREXX, NCDV, NAMES, SHGL(DB))
WRITE(6,3) WHEN
WRITE (6,124)
WRITE (6,123)
CALL PATTY2(ERRXX, NCDV, NAMES, SHGL(DE))
DO 65 I=1, NCDV
B(I)=0.0
C(I)=0.0
D(I)=0.0
DO 65 J=1, NCDV
B(I)=B(I)+ERRXX(I,J)+ERRYY(J)
C(I)=C(I)+TOTXX(I,J)+TOTYY(J)
65 D(I)=D(I)+TREXX(I,J)+TREYY(J)
SSDTRE=0.0
SSDTOT=0.0
SSDERR=0.0
DO 66 I=1, NCDV
SSDERR=SSDERR+B(I)+ERRYY(I)
SSDTRE=SSDTRE+D(I)+TREYY(I)
66 SSDTOT=SSDTOT+C(I)+TOTYY(I)
SSDTRE=SSDTOT-SSDERR
SSATRE=TREYY-SSDTRE
SSATOT=TOTYY-SSDTOT
SSAERR=ERRYY-SSDERR
N1=NGRPS-1
N2=BIG
00003480
00003500
00003520
00003530
00003550
00003560
00003580
00003590
00003600
00003610
00003620
00003630
00003640
00003650
00003660
00003670
00003680
00003690
00003700
00003710
00003720
00003730
00003740
00003750
00003760
00003770
00003780

N2=N2-NGRPS
N3=BIG-1.0
N4=N1
N5=N2-NCDV
N6=N3-NCDV
TEST=SSATOT-SSAERR
DN4=N4
DN5=N5
DN6=N6
DN1=N1
SMAATRE=SSATRE/DN4
SMAERR=SSAERR/DN5
ADJTES=TEST/DN1
FTEST=ADJTES/SMAERR
SMATOT=SSATOT/DN6
CALL WRT(N1, N2, N3, N4, N5, N6, FREYY, ERRYY, TOTYY, SSDERR, SSAERR, SMAERR,
+SSDTOT, SSATOT, TEST, FTEST, ADJTES, NCDV, SMATOT, BIG, NGRPS, NAMES, ERRXX,
+TOTXX, TREXX, SMAATRE, SSDTRE, SSATRE)
99 DO 604 I=1, NGRPS
VMG(I)=0.
SS(I)=0.
604 YY(I)=0.
VM=0.
VT=0.
VL=0.
DO 601 I=1, NY
READ(TAPE)(DATA(J), J=1, NVAR), DATA(100)
K=DATA(100)
IF (LYNN, GT, 0) K=NSAM(K)
ZEST=YAC
YEST=A(K)
DO 600 J=1, NCDV
ZEST=ZEST+CI(J)*DATA(J)
600 YEST=YEST+B(J)*DATA(J)
RES=DATA(NVAR)-YEST
RES1=DATA(NVAR)-ZEST
WRITE(8) RES
VMG(K)=VMG(K)+ABS(RES)
VM=VM+ABS(RES)
VT=VT+ABS(RES1)
PVAR=100.*RES/YEST
IF (ABS(RES1).LE. VLIGO TO 592
VL=ABS(RES1)
VVL=RES
VEST=YEST
PAR=PVAR
DAT=DATA(NVAR)
IA=1
IB=K
592 SS(K)=SS(K)+RES*RES)
YY(K)=YY(K)+((DATA(NVAR)-SSVAR(K, NVAR))
+DATA(NVAR)-SSVAR(K, NVAR)))
IF (MRES, NE, A123) GO TO 601
IF (MOD(I, 50), NE, 1) GO TO 599
WRITE(6,3) WHEN
WRITE(6,596)
WRITE(6,602)
599 WRITE(6,603) I, DATA(NVAR), YEST, RES, PVAR, K
601 CONTINUE
ENDFILE 8

```

```

REWIND 8
WRITE(6,3) WHEN
WRITE(6,504)
WRITE(6,602)
WRITE(6,603)IA,DAT,VEST,VVL,PAR,IB
DO 508 I=1,NGRPS
508 VMG(I)=VMG(I)/FLOAT(NG(I)-1)
VM=VM/FLOAT(NT-1)
VT=VT/FLOAT(NT-1)
REWIND JTape
VL=0
DO 608 J=1,NT
READ(JTape)(DATA(J),J=1,NVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
ZEST=K(K)
YEST=YAC
DO 609 J=1,NCOV
ZEST=ZEST+K(J)*DATA(J)
609 YEST=YEST+K(J)*DATA(J)
RES=DATA(NVAR)-YEST
RES=DATA(NVAR)-ZEST
WRITE(9) RES
PVAR=100.*RES/YEST
IF(ABS(RES).LE.VL)GO TO 583
VL=ABS(RES)
VVL=RES
VEST=YEST
PAR=PVAR
DAT=DATA(NVAR)
IA=I
583 IF(TRES.NE.A123) GO TO 608
IF(MOD(1,50).NE.1)GO TO 610
WRITE(6,3) WHEN
WRITE(6,587)
WRITE(6,611)
610 WRITE(6,612)IA,DAT(NVAR),YEST,RES,PVAR
608 CONTINUE
ENDFILE 9
REWIND 9
WRITE(6,3) WHEN
WRITE(6,595)
WRITE(6,611)
WRITE(6,612)IA,DAT,VEST,VVL,PAR
IF(MCOR.NE.A123)GO TO 634
WRITE(6,3) WHEN
IF((SSDERR/ERRVY).LT.0.)GO TO 632
SE=SQRT(SSDERR/ERRVY)
IF(SE.GT.1)GO TO 632
WRITE(6,627)SE
632 IF((SSDTOT/TOTVY).LT.0.)GO TO 633
ST=SQRT(SSDTOT/TOTVY)
IF(ST.GT.1)GO TO 633
WRITE(6,628)ST
633 WRITE(6,629)
DO 631 I=1,NGRPS
IF((SS(I)/VY(I)).GT.1)GO TO 631
SEW=SQRT(1.-SS(I)/VY(I))
IF(SEW.GT.1)GO TO 631
IF(MOD(1,50).NE.1)OR.(1.EQ.1)GO TO 626
WRITE(6,3) WHEN
WRITE(6,629)
626 WRITE(6,630)I,SEW
631 CONTINUE
634 LW=0
552 REWIND JTape
REWIND 8
REWIND 9
DO 551 I=1,NGRPS
NCG(I)=NG(I)
551 SDWG(I)=0.
SDW=0.
SDT=0.
NC=NT
NO=NT
DO 557 J=1,NT
READ(JTape)(DATA(J),J=1,NVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
READ(8) RES
READ(9) RES1
IF(VMG(K).LE.0.)GO TO 540
GS=.5*(RES/VMG(K))+RES/VMG(K)
IF(GS.GT.12.5)GO TO 540
SG=SER(GS)/VMG(K)
SYG=EXP(GS)
GO TO 549
540 NCG(K)=NCG(K)-1
GO TO 550
549 SDWG(K)=SDWG(K)+(SYG/SD)
550 IF(VM.LE.0.)GO TO 541
SX=.5*(RES/VM)+(RES/VM)
IF(SX.GT.12.5)GO TO 541
SX=SER(SX)/VM
SY=EXP(SX)
GO TO 554
541 NC=NC-1
GO TO 555
554 SDW=SDW+(SY/SX)
555 IF(VT.LE.0.)GO TO 542
SXA=.5*(RES1/VT)+(RES1/VT)
IF(SXA.GT.12.5)GO TO 542
SA=SER(SXA)/VT
SYA=EXP(SXA)
GO TO 556
542 NO=NO-1
GO TO 557
556 SDT=SDT+(SYA/SA)
557 CONTINUE
DO 543 I=1,NGRPS
IF((NCG(I).LE.0.)OR.(SDWG(I).LE.0.))GO TO 543
VMG(I)=.5*(VMG(I)+SDWG(I)/FLOAT(NCG(I)))
543 CONTINUE
IF((NC.LE.0.)OR.(SDW.LE.0.))GO TO 544
VM=.5*(VM+(SDW/FLOAT(NC)))
544 IF((NO.LE.0.)OR.(SDT.LE.0.))GO TO 545
VT=.5*(VT+(SDT/FLOAT(NO)))
545 LW=LW+1
IF(LW.LT.20)GO TO 552
WRITE(6,3) WHEN

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```

WRITE(6,301) VT
WRITE(6,300) VW
WRITE(6,302)
DO 613 1=1,NGRPS
IF((MOD(I,50).NE.1).OR.(I.EQ.1).GO TO 613
WRITE(6,31) WHEN
WRITE(6,302)
613 WRITE(6,303) 1,VWG(I)
IF((FCAST.EQ.A123).OR.(SSO.NE.A123).GO TO 618
DO 606 1=1,NGRPS
IF(MOD(I,50).NE.1).GO TO 614
WRITE(6,31) WHEN
WRITE(6,605)
614 KA=VY(I)-SS(I)
IF(KA.LT.0).GO TO 604
IF((NG(I)-NCOV-1).GT.0).GO TO 617
WRITE(6,607) I,VY(I),KA,SS(I)
GO TO 606
617 KA=SQRT(SS(I)/FLOAT(NG(I)-NCOV-1))
WRITE(6,607) I,VY(I),KA,SS(I),KA
606 CONTINUE
618 NLAST=NIAPE
REWIND TAPE
IF(VAR.NE.A123).GO TO 621
WRITE(6,31) WHEN
WRITE(6,419)
MESS=0
LL=0
IK=HVAR/8
IF((HVAR-1K*8).GT.0).IK=IK+1
IJ=50/(IK+2)
IF(IJ.LE.0)IJ=1
DO 620 1=1,NT
MESS=MESS+1
READ(JTAPE)(DATA(IJ),J=1,HVAR),DATA(100)
K=DATA(100)
IF(LYNN.GT.0) K=NSAM(K)
LL=LL+1
IF(LL.LE.IJ).GO TO 614
LL=1
WRITE(6,31) WHEN
WRITE(6,419)
616 WRITE(6,418) MESS,K
620 WRITE(6,249)(DATA(IJ),J=1,HVAR)
621 WRITE(6,51)
GO TO 999
70 FORMAT(23H TABLE OF MEANS (TOTAL)//21H VARIABLE MEAN/)
71 FORMAT(3X,A4,3X,E13,7)
125 FORMAT(13H LABELS CARDS//)
126 FORMAT(15X,A4,A6//)
127 FORMAT(19H-CORRELATION MATRIX)
594 FORMAT(///,25H MAXIMUM RESIDUAL (WITHIN))
595 FORMAT(///,25H MAXIMUM RESIDUAL (TOTAL))
596 FORMAT(///,25H TABLE OF RESIDUALS (WITHIN))
597 FORMAT(///,27H TABLE OF RESIDUALS (TOTAL))
602 FORMAT(//9H CASE NO.,6X,7HY VALUE,5X,10HY ESTIMATE,5X,8HRESIDUAL
1,3X,17HPERCENT VARIATION,2X,10HGROUP NO.,//)
611 FORMAT(//9H CASE NO.,6X,7HY VALUE,5X,10HY ESTIMATE,5X,8HRESIDUAL
1,3X,17HPERCENT VARIATION,2X,10HGROUP NO.,//)
603 FORMAT(2X,15,4X,E13,7,1X,E13,7,1X,E13,7,5X,F9,2,9X,13)

612 FORMAT(2X,15,4X,E13,7,1X,E13,7,1X,E13,7,5X,F9,2)
605 FORMAT(//50H TABLE OF SUM-SQUARES AND STANDARD ERRORS (WITHIN)//61
1H TREATMENT VY SUM-SQUARES SUM-SQUARES STANDARD/59H
2 NO. (DUE) (ABOUT) ERROR,/)
607 FORMAT(1X,15,3X,E13,7,1X,E13,7,1X,E13,7,1X,E13,7)
627 FORMAT(///,35H CORRELATION COEFFICIENT (TOTAL) * .E16,10)
624 FORMAT(///,35H CORRELATION COEFFICIENT (WITHIN) * .E16,10)
629 FORMAT(///,25H TREATMENT CORRELATION,2,25H NO. COEFFICIE
INT,2,16X,6H(WITHIN),/)
630 FORMAT(1X,15,6X,E16,10)
403 FORMAT(48HNEGATIVE NUMBER IS ILLEGAL FOR NUMBER OF LABELS)
1090 FORMAT(25HOTHE VARIABLE FORMAT CARDS/)
100 FORMAT(26,12,15,212,13,12,43,13,43,12,443,3X,443,312)
103 FORMAT(33H PROBLEM CODE.....A6/
1 33H NUMBER OF TREATMENT GROUPS.....13/
2 33H TOTAL NUMBER OF CASES.....16/
3 33H NUMBER OF CARDS PER CASE.....16/
4 33H NUMBER OF ENTERING VARIABLES.....16/
5 33H NUMBER OF VARIABLES ADDED.....16/
6 33H INDEX OF THE DEPENDENT VARIABLE.....16/
7 33H PRINT DATA INPUT.....3X,A3/
8 33H NUMBER OF VARIABLES NAMED.....16/
9 33H USE DATA CARDS OF LAST PROBLEM.....3X,A3/
10 33H NUMBER OF GROUP DEFINITION CARDS.....16/
11 33H PRINT RESIDUALS (WITHIN).....3X,A3/
12 33H PRINT RESIDUALS (TOTAL).....3X,A3/
13 33H PRINT TRANSGENERATED VARIABLES.....3X,A3/
14 33H PRINT CORRELATION MATRICES.....3X,A3/
15 33H FORECAST DATA INPUT.....3X,A3/
16 33H REWIND INPUT TAPE.....3X,A3/
17 33H NUMBER OF TRANSGENERATION CARDS.....16/
18 33H SPECIFIED BCD TAPE NUMBER.....16/
19 33H NUMBER OF VARIABLE FORMAT CARDS.....16/
104 FORMAT(//23H TRANS-GENERATION CARDS//)
105 FORMAT(30H CARD NEW TRANS OLD CONST./33H NO. VAR. CODE VARIA00004840
1) OR VAR(9)/1 00004850
106 FORMAT(A6,12,12,13,F8,0) 00004860
107 FORMAT(14,15,16,15,4X,F10,5) 00004870
108 FORMAT(A6,2213) 00004880
109 FORMAT(A6,22A3)
110 FORMAT(23HOGROUP DEFINITION CARDS) 00004900
111 FORMAT(A6,12,6(12,A2,F5,0,A1)) 00004910
112 FORMAT(//20H0A CASE IS IN GROUP 12,4H IF,/) 00004920
113 FORMAT(15H VAR(12,5H) IS 42,1H F10,5,1H A1) 00004930
114 FORMAT(18A10) 00004940
115 FORMAT(//26H GROUP NO. SAMPLE/25H SPECIFIED ASSIGNED* SIZE00004950
1//) 00004960
116 FORMAT(15A,12,7X,12,4X,15) 00004970
117 FORMAT(//30H VARIABLE MEANS FOR EACH GROUP//)
118 FORMAT(//11H GROUP NO. 12/)
119 FORMAT(61A2,A6,E13,7,10//)
120 FORMAT(41H-SUMS OF SQUARES AND CROSS PRODUCT MATRIX) 00005010
121 FORMAT(11H FOR TOTAL,/) 00005020
122 FORMAT(15H FOR TREATMENT,/) 00005030
123 FORMAT(11H FOR ERROR,/) 00005040
124 FORMAT(24H-INVERSE OF THE COVARIATES/21H CROSS PRODUCT MATRIX) 00005050
150 FORMAT(10H09120HTRANSGENERATION CARD13,35H HAS INVALID CODE FOR TH00005200
115 PROGRAM: 00005400
151 FORMAT(1A,1612)
152 FORMAT(1A,16A2)

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153 FORMAT(//.1M .A6.36A2)
154 FORMAT(//20M COVARIATE SELECTION CARDS)
155 FORMAT(//10M SAMPLE SIZE CARDS//)
157 FORMAT(//.1M .A6.22A3)
249 FORMAT(//.1M .B13.7)
250 FORMAT(//.1M .B10)
300 FORMAT(//.31M STANDARD DEVIATION (WITHIN) * .E16.10)
301 FORMAT(//.31M STANDARD DEVIATION (TOTAL) * .E16.10)
302 FORMAT(//.10M TREATMENT .6X.8MSTANDARD .73X.3MNO .9X.8MDEVIATION.
1.16X.8M(WITHIN).//)
303 FORMAT(//.1X.15.5X.E16.10)
415 FORMAT(//11M DATA INPUT)
416 FORMAT(//15M TRANSGENERATED/11M DATA INPUT)
418 FORMAT(//3MOCASE NUMBER IS.45X.13MGROUP NUMBER IS)
777 FORMAT(A6)
888 FORMAT(3M X1.12.1M)
9999 FORMAT(1M0.23X.71MNUMBER OF VARIABLE FORMAT CARDS INCORRECTLY SPEC
IFIED. ASSUMED TO BE 1.)
END
00005470
00005480
000005490
00005500
00005520

```

```

C ..... MINV 10
C ..... MINV 20
C ..... MINV 30
C ..... MINV 40
C ..... MINV 50
C ..... MINV 60
C ..... MINV 70
C ..... MINV 80
C ..... MINV 90
C ..... MINV 100
C ..... MINV 110
C ..... MINV 120
C ..... MINV 130
C ..... MINV 140
C ..... MINV 150
C ..... MINV 160
C ..... MINV 170
C ..... MINV 180
C ..... MINV 190
C ..... MINV 200
C ..... MINV 210
C ..... MINV 220
C ..... MINV 230
C ..... MINV 240
C ..... MINV 250
C ..... MINV 260
C ..... MINV 270
C ..... MINV 280
C ..... MINV 290
C ..... MINV 300
C ..... MINV 310
C ..... MINV 320
C ..... MINV 330
C ..... MINV 340
C ..... MINV 350
C ..... MINV 360
C ..... MINV 370
C ..... MINV 380
C ..... MINV 390
C ..... MINV 400
C ..... MINV 410
C ..... MINV 420
C ..... MINV 430
C ..... MINV 440
C ..... MINV 450
C ..... MINV 460
C ..... MINV 470
C ..... MINV 480
C ..... MINV 490
C ..... MINV 500
C ..... MINV 510
C ..... MINV 520
C ..... MINV 530
C ..... MINV 540
C ..... MINV 550
C ..... MINV 560
C ..... MINV 570
C ..... MINV 580
C ..... MINV 590
C ..... MINV 600

SUBROUTINE MINV
PURPOSE
  INVERT A MATRIX
USAGE
  CALL MINV(A,N,D,L,M)
DESCRIPTION OF PARAMETERS
  A - INPUT MATRIX, DESTROYED IN COMPUTATION AND REPLACED BY
  RESULTANT INVERSE.
  N - ORDER OF MATRIX A
  D - RESULTANT DETERMINANT
  L - WORK VECTOR OF LENGTH N
  M - WORK VECTOR OF LENGTH N
REMARKS
  MATRIX A MUST BE A GENERAL MATRIX
SUBROUTINES AND FUNCTION SUBPROGRAMS REQUIRED
  NONE
METHOD
  THE STANDARD GAUSS-JORDAN METHOD IS USED. THE DETERMINANT
  IS ALSO CALCULATED. A DETERMINANT OF ZERO INDICATES THAT
  THE MATRIX IS SINGULAR.
SUBROUTINE MINV(A,N,D,L,M)
  DIMENSION A(1),L(1),M(1)
  IF A DOUBLE PRECISION VERSION OF THIS ROUTINE IS DESIRED, THE
  C IN COLUMN 1 SHOULD BE REMOVED FROM THE DOUBLE PRECISION
  STATEMENT WHICH FOLLOWS.
  DOUBLE PRECISION A,D,BIGA,HOLD
  THE C MUST ALSO BE REMOVED FROM DOUBLE PRECISION STATEMENTS
  APPEARING IN OTHER ROUTINES USED IN CONJUNCTION WITH THIS
  ROUTINE.
  THE DOUBLE PRECISION VERSION OF THIS SUBROUTINE MUST ALSO
  CONTAIN DOUBLE PRECISION FORTRAN FUNCTIONS. ABS IN STATEMENT
  10 MUST BE CHANGED TO DABS.
  SEARCH FOR LARGEST ELEMENT
  D=1.0
  N=N-1
  DO 90 K=1,N
  N=N+N
  L=K+N

```

```

      NIK)=K
      KK=KK+K
      BIGA=A(KK)
      DO 20 J=K,N
      IZ=K+(J-1)
      DO 20 I=K,N
      IJ=IZ+I
10  IF(DABS(BIGA)-DABS(A(IJ))) 15,20,20
15  BIGA=A(IJ)
      L(I)=I
      NIK=N
20  CONTINUE
C
C      INTERCHANGE ROWS
C
      J=L(K)
      IF(J-K) 35,35,25
25  KI=K-N
      DO 30 I=1,N
      KI=KI+K
      HOLD=A(KI)
      JI=KI-K+J
      A(KI)=A(JI)
30  A(JI)=HOLD
C
C      INTERCHANGE COLUMNS
C
35  I=M(K)
      IF(I-K) 45,45,38
38  JP=M(I-1)
      DO 40 J=1,N
      JK=KK+J
      JI=JP+J
      HOLD=A(JK)
      A(JK)=A(JI)
40  A(JI)=HOLD
C
C      DIVIDE COLUMN BY MINUS PIVOT (VALUE OF PIVOT ELEMENT IS
      CONTAINED IN BIGA)
C
45  IF(BIGA) 48,46,48
46  D=0.0
      RETURN
48  DO 55 I=1,N
      IF(I-K) 50,55,50
50  IK=NR-I
      A(IK)=A(IK)/(1-BIGA)
55  CONTINUE
C
C      REDUCE MATRIX
C
      DO 65 I=1,N
      IK=NR-I
      HOLD=A(IK)
      IJ=I-N
      DO 65 J=1,N
      IJ=IJ+K
      IF(I-K) 60,65,60
60  IF(IJ-K) 62,65,62
62  KJ=IJ-I+K
      A(IJ)=HOLD+A(KJ)+A(IJ)
65  CONTINUE
C
C      DIVIDE ROW BY PIVOT
C
      KJ=K-N
      DO 75 J=1,N
      KJ=KJ+K
      IF(IJ-K) 70,75,70
70  A(KJ)=A(KJ)/BIGA
75  CONTINUE
C
C      PRODUCT OF PIVOTS
C
      D=D*BIGA
C
C      REPLACE PIVOT BY RECIPROCAL
C
      A(NR)=1.0/BIGA
80  CONTINUE
C
C      FINAL ROW AND COLUMN INTERCHANGE
C
      K=N
100 K=(K-1)
      IF(K) 150,150,105
105 I=L(K)
      IF(I-K) 120,120,108
108 JQ=NR-I-1
      JRR=NR(I-1)
      DO 110 J=1,N
      JK=JQ+J
      HOLD=A(JK)
      JI=JRR+J
      A(JK)=A(JI)
110 A(JI)=HOLD
120 J=M(K)
      IF(J-K) 100,100,125
125 KI=K-N
      DO 130 I=1,N
      KI=KI+K
      HOLD=A(KI)
      JI=KI-K+J
      A(KI)=A(JI)
130 A(JI)=HOLD
      DO 100 I=1,N
      RETURN
      END

```

```

MINV 610
MINV 620
MINV 630
MINV 640
MINV 650
MINV 660
MINV 670
MINV 680
MINV 690
MINV 700
MINV 710
MINV 720
MINV 730
MINV 740
MINV 750
MINV 760
MINV 770
MINV 780
MINV 790
MINV 800
MINV 810
MINV 820
MINV 830
MINV 840
MINV 850
MINV 860
MINV 870
MINV 880
MINV 890
MINV 900
MINV 910
MINV 920
MINV 930
MINV 940
MINV 950
MINV 960
MINV 970
MINV 980
MINV 990
MINV1000
MINV1010
MINV1020
MINV1030
MINV1040
MINV1050
MINV1060
MINV1070
MINV1080
MINV1090
MINV1100
MINV1110
MINV1120
MINV1130
MINV1140
MINV1150
MINV1160
MINV1170
MINV1180
MINV1190
MINV1200
MINV1210
MINV1220
MINV1230
MINV1240
MINV1250
MINV1260
MINV1270
MINV1280
MINV1290
MINV1300
MINV1310
MINV1320
MINV1330
MINV1340
MINV1350
MINV1360
MINV1370
MINV1380
MINV1390
MINV1400
MINV1410
MINV1420
MINV1430
MINV1440
MINV1450
MINV1460
MINV1470
MINV1480
MINV1490
MINV1500
MINV1510
MINV1520
MINV1530
MINV1540
MINV1550
MINV1560
MINV1570
MINV1580
MINV1590
MINV1600
MINV1610
MINV1620
MINV1630
MINV1640
MINV1650
MINV1660
MINV1670
MINV1680

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C      SUBROUTINE GRPSEL FOR BMD04V      APRIL 1, 1966      00005800
SUBROUTINE GRPSEL(M)
DIMENSION DATA(100), NSUB(99,6), CONT(99,6), REL(99,6), OPER(99,6), B(16)
1 NG(99), E(7)
COMMON DATA, NSUB, CONT, REL, OPER, NG
DATA A,0,STAR,E/4HA,4MO,4M,4MGT,4MLT,4MLE,4MGE
1 2HEQ,2HME,2H /
FB=1.0
ASSIGN 105 TO ISKIP
500 DO 90 I=1,6
15=NSUB(M,I)
IF(REL(M,I).EQ.E(1)) GO TO 2
IF(REL(M,I).EQ.E(2)) GO TO 4
IF(REL(M,I).EQ.E(3)) GO TO 6
IF(REL(M,I).EQ.E(4)) GO TO 8
IF(REL(M,I).EQ.E(5)) GO TO 10
IF(REL(M,I).EQ.E(6)) GO TO 11
IF(REL(M,I).EQ.E(7)) GO TO 100
96 WRITE(6,4000)REL(M,I)
M=M+6
GO TO 104
2 IF(DATA(15)-CONT(M,I))50,50,20
4 IF(DATA(15)-CONT(M,I))20,50,50
6 IF(DATA(15)-CONT(M,I))20,20,50
8 IF(DATA(15)-CONT(M,I))50,20,20
10 IF(DATA(15)-CONT(M,I))50,20,50
11 IF(DATA(15)-CONT(M,I))20,50,20
20 B(1)=1.0
GO TO 90
50 B(1)=0.0
90 CONTINUE
100 GO TO ISKIP,(105,125)
125 IF(OPER(M,6).NE.6) GO TO 150
FB=FB*B(1)
GO TO 175
105 IF(OPER(M,1).EQ.A) GO TO 147
IF(OPER(M,1).NE.O) GO TO 170
147 FB=B(1)
GO TO 175
150 IF(OPER(M,6).EQ.O) GO TO 152
I=6
REL(M,6)=OPER(M,6)
GO TO 94
170 FB=B(1)
GO TO 350
152 IF(FB.LE.0.) GO TO 147
175 DO 300 I=1,5
IF(OPER(M,I).NE.A) GO TO 222
FB=FB*B(1+1)
GO TO 300
222 IF(OPER(M,I).NE.O) GO TO 333
IF(FB.GT.0.) GO TO 300
FB=B(1+1)
300 CONTINUE
IF(OPER(M,6).EQ.STAR) GO TO 350
M=M+1
ASSIGN 125 TO ISKIP
GO TO 500
333 IF(OPER(M,1).EQ.STAR) GO TO 350
REL(M,1)=OPER(M,1)

GO TO 36
350 IF(FB.LE.0.) GO TO 104
DATA(100)=NG(M)
104 RETURN
4000 FORMAT(1MD14R230ILLEGAL OPERATION ON RELATION A2,5TH. PROGRAM WILL
1 PROCEED TO NEXT JOB, IF ANY, OR TERMINATE.)
END

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C      SUBROUTINE PATTY2 FOR BM004V      APRIL 1, 1966      00006570
SUBROUTINE PATTY2 (A,N,NAMES,D)
DIMENSION NAMES(26),NM(8),A(26,26),WMEN(3)      00006590
REAL NAMES,NM
CALL 1DAY(WMEN)
K=0
IK=50/(N+3)
IF(IK.LE.0)IK=1
IT=1
KK=0
K1=IT
K2=MIN0(8,N)
10 KK=KK+8
IF(NM(LE, KK) GO TO 20
IT=IT+1
GO TO 10
20 DO 70 J=1,IT
LLL=K2-K1+1
LL=0
DO 30 JJ=K1,K2
LL=LL+1
30 NM(LL)=NAMES(JJ)
K=K+1
IF(NM(LE,IK)GO TO 31
K=1
WRITE(6,71) WMEN
31 WRITE(6,50) (NM(I),I=1,LLL)
WRITE(6,60)
DO 40 I=1,N
40 WRITE(6,60)NAMES(I), (A(I,J),J=K1,K2)
K1=K2+1
K2=K1+7
K2=MIN0(K2,N)
50 FORMAT(1H0,13X,A6,710E,A6)
60 FORMAT(1H ,A6,1X,6E14,7)
80 FORMAT(1H )
90 FORMAT(//17H SINGULAR MATRIX.)
70 CONTINUE
71 FORMAT(1H1,105X,3A10,7(//))
IF(D.EQ.0.) WRITE(6,90)
RETURN
END
00006610
00006620
00006630
00006640
00006650
00006660
00006670
00006680
00006690
00006700
00006710
00006720
00006730
00006740
00006750
00006760
00006770
00006780
00006790
00006800
00006820
00006840
00006860
00006880
00006900
00006920
00006940
00006960
00006980
00007000
00007010
00007020
00007030
00007040
00007050
00007060
00007070
00007080
00007090
00007100
00007110
00007120
00007130
00007140
00007150
00007160
00007170
00007180
00007190
00007200
00007210
00007220
00007230
00007240
00007250
00007260
00007270
00007280
00007290
00007300
00007310
00007320
00007330
00007340
00007350
00007360
00007370
00007380
00007390
00007400
00007410
00007420
00007430
00007440

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SUBROUTINE TGA(11,M)
DIMENSIONDATA(100),NSUB(99,6),CONT(99,6),REL(99,6),OPER(99,6),NG(99,6)
11,NEW(99,1),JUMP(99),NA(99),BN(99)
COMMON DATA , NSUB , CONT , REL , OPER , NG
COMMON LM , NEW , JUMP , NA , BN , IERROR
COMMON NVAR , NTG , NCASE
EXTERNAL SIGN
ASHX1 = ATAN(X/SQRT(1-X**2))
SAMPX=NCASE
PI2=1.57079633
DO 1010 I=1,NTG
JKE=JUMP(I)
NM=NEW(I)
IF(NM.GE.100) GO TO 97
NAA=NA(I)
IF(NAA.GE.100) GO TO 97
97 NM=BN(I)
BN=BN(I)
D1=DATA(NAA)
IF(JKE.LE.17) GO TO 33
JKE=JKE-2
IF(JKE.LE.22) GO TO 33
JKE=23
23 GO TO (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20)
1,21,22,230)JKE
1 IF( D1 .EQ. 199,11,12
11 D2=0.0
GO TO 1000
12 D2=SQRT(D1)
GO TO 1000
2 IF( D1 .EQ. 199,13,14
13 D2=1.0
GO TO 1000
14 D2 =SQRT( D1 -1+SQRT( D1 -1+0)
GO TO 1000
3 IF( D1 .LE. 0.) GO TO 99
D2=ALOG10(D1)
GO TO 1000
4 D2=EXP(D1)
GO TO 1000
5 IF( D1 .EQ. 199,11,17
17 IF( D1 .EQ. -1.0)18,19,99
19 D2=PI2
GO TO 1000
16 A=SQRT(D1)
D2=ASN(A)
GO TO 1000
6 A= D1
B=1-0/(SAMPX+1.0)
IF(A)19,27,24
27 D2 =ASN(SQRT(B))
GO TO 1000
24 IF(199,28,29
29 IF(A-1.0)285,287,99
285 D2 =ASN(SQRT(A)+2.0
GO TO 1000
287 D2 =3.14159265
GO TO 1000
29 A=SQRT(A)
B=SQRT(B)
00006860
00006870
00006880
00006890
00006900
00006910
00006920
00006930
00006940
00006950
00006960
00006970
00006980
00006990
00007000
00007010
00007020
00007030
00007040
00007050
00007060
00007070
00007080
00007090
00007100
00007110
00007120
00007130
00007140
00007150
00007160
00007170
00007180
00007190
00007200
00007210
00007220
00007230
00007240
00007250
00007260
00007270
00007280
00007290
00007300
00007310
00007320
00007330
00007340
00007350
00007360
00007370
00007380
00007390
00007400
00007410
00007420
00007430
00007440

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IF(A .GT. 1. .OR. B .GT. 1.) GO TO 99
D2 = *ASH(A)+ASH(B)
GO TO 1000
7 IF( D1 .EQ. 0.) GO TO 99
D2 = *1.0/D1
GO TO 1000
8 D2=D1**88H
GO TO 1000
9 D2=D1**88H
GO TO 1000
10 IF( D1 .199.11.32
32 D2=D1**88H
GO TO 1000
111 IF(NB .GE. 100) GO TO 97
NSKIP=J0KE-10
GO TO(110,120,130,140,150,160).NSKIP
110 D2 = D1 -DATA(NB)
GO TO 1000
120 D2 = D1 -DATA(NB)
GO TO 1000
130 D2 = D1 -DATA(NB)
GO TO 1000
140 IF(DATA(NB) .EQ. 0.) GO TO 94
D2 = D1 /DATA(NB)
GO TO 1000
150 IF( D1 -88H)11,13,13
160 IF( D1 -DATA(NB))11,13,13
170 IF( D1 .EQ. 0.) GO TO 99
D2 = *ALOG(D1)
GO TO 1000
180 D2 = *SIN(D1)
GO TO 1000
190 D2 = *COS(D1)
GO TO 1000
20 D2=ATAN(D1)
GO TO 1000
21 IF( D1 .199.11.38
38 IF(NB .GE. 100) GO TO 97
D2=D1**DATA(NB)
GO TO 1000
22 IF(88H)99,11,40
40 D2=88H**D1
GO TO 1000
230 IF( D1 .NE. 0.) GO TO 1000
IF(SIGN(10.0, D1) .1743,1000,1000
43 D2=88H
GO TO 1000
97 WRITE (6,4001)
GO TO 991
98 NAA=NB
99 WRITE (6,4000)NAA,JUMP(1),11,M
991 WRITE (6,4002)
GO TO 1010
1000 DATA(NB)=D2
1010 CONTINUE
RETURN
4000 FORMAT(17H0DATA OF VARIABLE14,30H VIOLATES RESTRICTION FOR CODE13,00008020
130H, THIS WAS FOR TREATMENT GROUP13,7H SAMPLE14) 00008030
4001 FORMAT(20H0TRANSGENERATOR CARD13,44H HAS VARIABLE NUMBERS TOO LARG00008040
1E FOR PROGRAM.) 00008050

4002 FORMAT(32H THE DATA WILL REMAIN UNCHANGED.) 00008060
END 00008070

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C          SUBROUTINE TPWD FOR BMD04V          APRIL 1, 1968          00000000
SUBROUTINE TPWD(NT1,NT2)
IF(NT1.EQ.10,12)
10  NT1=5
12  IF(NT1.EQ. NT2) GO TO 18
IF(NT2.EQ.5)GO TO 18
REWIND NT2
18  IF(NT1.EQ. 5) GO TO 24
18  IF(NT1.EQ. 8) GO TO 40
REWIND NT1
24  NT2=NT1
RETURN
40  WRITE (6,49)
STOP
49  FORMAT(25H ERROR ON TAPE ASSIGNMENT)
END
00000090
00000100
00000100
00000110
00000120
00000130
00000140
00000150
00000160
00000170
00000180
00000190
00000200
00000210
00000220
00000225

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SUBROUTINE WRT(N1,N2,N3,N4,N5,N6,TREXX,ERRV,TOTV,SSDERR,SSAERR, 00000230
SSAERR,SSDTOT,SSATOT,TEST,FTEST,ADJTES,NCOV,SMATOT,BIG,NCRPS,NAMES00000240
2,ERRXX,TOTXX,TREXX,SMATRE,SSDTRE,SSATRE)
REAL NAMES
DIMENSION DATA(100),NSUB(99,4),CONT(99,4),REL(99,4),OPER(99,4), 00000260
*NG(99),S(35),SSVAR(99,36),TOTXX(36,36),ERRXX(36,36),S(35),C(35), 00000280
1D(35),SEB(35),SEC(35),ADY(99),SEADY(99),NAMES(36),A(99)
2,TREXX(36,36),SED(35),WHEN(3)
COMMON DATA,NSUB,CONT,REL,OPER,NG 00000300
COMMON LN,NEW(99),JUMP(99),NA(99),BN(99),IERROR 00000302
COMMON NVAR,HTG,NCASE 00000304
COMMON /WT/A,B,C,D,SEB,SEC,SED,SSVAR,ADY,SEADY,YAC,WHEN
PRINT 124,WHEN
PRINT 125
00000320
PRINT 126
00000320
PRINT 127
00000340
PRINT 128
00000350
PRINT 129
00000360
PRINT 127
00000370
PRINT 130
00000380
PRINT 127
00000390
PRINT 131
00000400
PRINT 132,N1,TREXX
PRINT 127
00000420
PRINT 130
00000430
PRINT 127
00000440
PRINT 133,N2,ERRV,SSDERR,SSAERR,N5,SSAERR
PRINT 134
PRINT 130
00000470
PRINT 127
00000480
PRINT 131
00000490
PRINT 136,N3,TOTV,SSDTOT,SSATOT,N6,SMATOT
PRINT 137
00000520
PRINT 127
00000530
PRINT 130
00000540
PRINT 127
00000540
PRINT 138,TEST,N1,ADJTES
00000550
PRINT 127
00000560
PRINT 126
00000570
PRINT 139
00000580
PRINT 140,N1,N5,FTEST
00000590
PRINT 124,WHEN
PRINT 141
PRINT 142
00000610
PRINT 143
124 FORMAT(1H,10X,3A10)
125 FORMAT(35X,20H ANALYSIS OF COVARIANCE TABLE/)
00000630
126 FORMAT(1H 93(1H*))
00000640
127 FORMAT(2H *,11X,1H,7X,1H,3(15X,1H),7X,1H,15X,1H*)
00000650
128 FORMAT(2H *,11X,1H,7X,1H,15X,22H SUM-SQUARES / SUM-SQUARES
00000660
*,1,7X,1H,15X,1H*)
00000670
129 FORMAT(54H * SOURCE / OF / Y Y / (DUE) /
00000680
* (ADJUST) / OF / MEAN-SQUARE *)
00000690
130 FORMAT(2H *,9(1H*),1H*)
00000700
131 FORMAT(14H * TREATMENT /,7X,1H,3(15X,1H),7X,1H,15X,1H*)
00000710
132 FORMAT(15H * (BETWEEN) /,19,1H,2H,13,7,1H,2(2H,13X,1H),2H
00000720
*,1,5X,2H,1,13X,2H *)
133 FORMAT(15H * ERROR /,19,1X,3(2H,13,7,1H),2H,15,3H,1,13,7
00000730
1,2H *)
134 FORMAT(14H * (WITHIN) /,7X,1H,3(15X,1H),7X,1H,15X,1H*)

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126 FORMAT(15M * + ERROR I .15,1A,3(2M1 E13,7,1M 1,2M1 15,3M 1 E13,7
X,2M 1)
127 FORMAT(14M * (TOTAL) 2,7X,1M1,3(15X,1M1),7X,1M1,15X,1M1)
128 FORMAT(15M * DIFFERENCE FOR TESTING ADJUSTED TREATMENT MEANS....1 E
*13,7,3M 1 .15,3M 1 .E13,7,2M 1)
129 FORMAT(1//5MNOULL HYPOTHESIS: NO DIFFERENCE AMONG TREATMENTS AFTER0000000000
*10X,26MADJUSTING WITH COVARIATES.//)
140 FORMAT(18X,2M1(.15,1M,15,2M1*,F8,2//)
0000000000
142 FORMAT(1M 16X,19MTREATMENT (BETWEEN)//)
0000000000
DO 60 I=1,NCOV
SED(I)=SMATRE+TREXX(I,1)
IF(SED(I).GT.0.)GO TO 65
PRINT 144,NAMES(I),D(I)
GO TO 68
65 SED(I)=SORT(SED(I))
T=D(I)/SED(I)
CALL CONFINT,T,P)
PRINT 144,NAMES(I),D(I),SED(I),T,P
68 CONTINUE
PRINT 124,WHEN
PRINT 141
PRINT 145
PRINT 143
DO 60 I=1,NCOV
SED(I)=SMAERR+ERRXX(I,1)
IF(SED(I).GT.0.)GO TO 66
PRINT 144,NAMES(I),B(I)
GO TO 69
66 SED(I)=SORT(SED(I))
T=B(I)/SED(I)
CALL CONFINT,T,P)
PRINT 144,NAMES(I),B(I),SED(I),T,P
69 CONTINUE
PRINT 124,WHEN
PRINT 141
PRINT 146
PRINT 143
DO 70 I=1,NCOV
SEC(I)=SMATOT+TOTXX(I,1)
IF(SEC(I).GT.0.)GO TO 67
PRINT 144,NAMES(I),C(I)
GO TO 70
67 SEC(I)=SORT(SEC(I))
T=C(I)/SEC(I)
CALL CONFINT,T,P)
PRINT 144,NAMES(I),C(I),SEC(I),T,P
70 CONTINUE
DO 82 I=1,NVAR
X(I)=0.0
DO 82 J=1,NGRPS
T1=NG(J)
821 X(I)=X(I)+SSVAR(J,1)*T1/810
DO 72 J=1,NGRPS
SEADY(J)=1.
T1=0.0
T1=NG(J)
T1=1.0/T1
DO 71 I=1,NCOV
71 T=T+B(I)*(SSVAR(J,1)-X(I))
ADY(J)=SSVAR(J,NVAR)-T

DO 73 I=1,NCOV
DO 73 K=1,NCOV
73 T1=T1+(SSVAR(J,1)-X(I))*(ERRXX(I,K)+(SSVAR(J,K)-X(K))
IF(SMAERR+T1.LT.0.) GO TO 72
SEADY(J)=SQRT(SMAERR+T1)
72 CONTINUE
DO 76 I=1,NGRPS
IF(MOD(I,50).NE.1)GO TO 74
PRINT 124,WHEN
PRINT 147
PRINT 149
74 IF(SEADY(I).GE.0.) GO TO 75
PRINT 149,I,SSVAR(I,NVAR),ADY(I)
GO TO 76
75 PRINT 149,I,SSVAR(I,NVAR),ADY(I),SEADY(I)
76 CONTINUE
YAC=X(NVAR)
YAD=X(NVAR)
DO 79 I=1,NCOV
YAC=YAC-C(I)*X(I)
YAD=YAD-D(I)*X(I)
79 PRINT 124,WHEN
PRINT 150
PRINT 154,YAD
PRINT 155,YAC
PRINT 151
LL=0
DO 78 I=1,NGRPS
LL=LL+1
A(I)=SSVAR(I,NVAR)
DO 77 J=1,NCOV
77 A(I)=A(I)-B(J)*SSVAR(I,J)
IF(LL.LE.45)GO TO 78
LL=1
PRINT 124,WHEN
PRINT 150
PRINT 151
78 PRINT 153,I,A(I)
141 FORMAT(1//80M)TABLE OF COEFFICIENTS,STANDARD ERRORS AND COMPUTED T-VALUE0000000000
*VALUES//)
143 FORMAT(1M 10X,50MCOEFFICIENT STAND. ERROR T-VALUE CEN
IF(DEN=0))
144 FORMAT(1M .46,1X,E16,10,E16,10,1X,F11,6,X,F9,5)
145 FORMAT(1M 23X,14MERROR (WITHIN)//)
146 FORMAT(1M 10X,23MTREATMENT-ERROR (TOTAL)//)
147 FORMAT(144M TABLE OF ADJUSTED MEANS AND STANDARD ERRORS//)
148 FORMAT(49M TREATMENT TREATMENT ADJUSTED SE ADJUSTED/6M N
*0.7X,4MMEAN&0X,4MMEAN//)
149 FORMAT(1M .15,3X,E13,7,1X,E13,7,1X,E13,7,1X,E13,7)
150 FORMAT(20M TABLE OF INTERCEPTS//)
151 FORMAT(23M TREATMENT INTERCEPT/23M NO. (WITHIN)//)
154 FORMAT(26M INTERCEPT * .E16,10/23M BETW
IEEN)//)
155 FORMAT(26M INTERCEPT * .E16,10/23M TOT
IAL)//)
153 FORMAT(1M .15,3X,E16,10)
RETURN
END
0000000000
0000000000

```

```

SUBROUTINE LOAY(MDAY)
  DIMENSION MDAY(3), LONG(7), MONTH(12), IOREV(7)
  DATA MONTH / 31, MAR, 31, APR, 30, MAY, 31, JUN, 30, JUL, 31, AUG,
1 31, SEP, 30, OCT, 31, NOV, 30, DEC, 31, JAN, 31, FEB,
  DATA LONG / 10H, SUNDAY, 10H, MONDAY, 10H, TUESDAY,
1 10H, WEDNESDAY, 10H, THURSDAY, 10H, FRIDAY, 10H, SATURDAY,
  DATA IOREV / 10H, SUN, 10H, MON, 10H, TUE,
1 10H, WED, 10H, THU, 10H, FRI, 10H, SAT,
2 FORMAT(3(1X12))
3 FORMAT(A6,12,4H, 19,12)
4 FORMAT(14)
  I = 3
  GO TO 4
  ENTRY SDAY
  I = 1
4 CALL DATE(DAY)
  DECODE(10,1,DAY,IV,IM,IO)
  IA = IM
  IF( IO,LC,3) GO TO 5
  IM = IV
  IV = IO
  IO = IA
5 IM = IM + 10
  IF( IM,GT,12 ) IM = IM - 12
  ENCODE(10,2,MDAY(2),MONTH(IM),IO,IV)
  DECODE(10,3,MDAY(3),NYEAR)
  IF( IM,GE,1) NYEAR = NYEAR - 1
  NC = NYEAR/100
  ND = NYEAR - 100*NC
  IC = 2.59 + FLOAT( IM )
  IC = IC + ND/4
  IC = MOD(IC + IO - NC - ND + ND + NC/4,7)
  IF( IC,LT,0 ) IC = IC + 7
  IF( I - 1 ) 7, 7, 6
6 MDAY(1) = LONG( IC+1 )
  RETURN
7 MDAY(1) = IOREV( IC+1 )
  RETURN
  END

```

```

SUBROUTINE CONF(N,T,P)
  P = 5
  IF( N,LT,1) GO TO 6
  RPI = 3.141592653589793
  TP = ABS(T)/SQRT(FLOAT(N))
  I = N - 2*(N/2)
  IF( I,EQ,1) GO TO 3
  P = P + 1.5*TP/SQRT(1. + (TP*TP))
  IF( N,EQ,2) GO TO 6
  DO 2 I = 4, N, 2
  AK = 1
  DO 1 J = 4, I, 2
  AK = AK*(FLOAT(J-3))/(FLOAT(J-2))
1 CONTINUE
  P = P + (.5*TP/SQRT(1. + (TP*TP)))*(AK*((1. + (TP*TP))**((I-1)/2)))
2 CONTINUE
  GO TO 6
3 P = P - RPI*ATAN(TP)
  IF( N,EQ,1) GO TO 6
  P = P - (RPI*TP/(1. + (TP*TP)))
  IF( N,EQ,3) GO TO 6
  DO 5 I = 5, N, 2
  AK = 1
  DO 4 J = 5, I, 2
  AK = AK*(FLOAT(J-3))/(FLOAT(J-2))
4 CONTINUE
  P = P - (RPI*TP/(1. + (TP*TP)))*(AK*((1. + (TP*TP))**((I-1)/2)))
5 CONTINUE
  P = 100 * P
  RETURN
  END

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A P P E N D I X C

ANALYSIS OF COVARIANCE COMPUTER PROGRAM USER'S GUIDE

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ANALYSIS OF COVARIANCE WITH MULTIPLE COVARIATES AND
FORECAST CAPABILITY

DESCRIPTION

1. This program is designed to compute Analysis-of-Covariance information for one Analysis-of-Variance Variable with multiple Covariates and unequal treatment groups sizes. Cases may be specified by the user as being in certain treatment groups, or cases may be placed in treatment groups by the program in accordance with a specified boolean expression. The program provides the capability to input forecast case data to test the accuracy of the defined covariance statistical model.
2. Output from this program includes:
 - a. List of case numbers, data input, and group designation (optional).
 - b. Variable means for each treatment group.
 - c. Total mean for each variable.
 - d. Correlation matrices for total, treatment, and error (optional).
 - e. Sums of products matrices for total, treatment, and error.
 - f. The inverses of the Covariate matrices for total, treatment, and error.
 - g. Analysis-of-Covariance table with degrees of freedom, sums of squares, mean squares, and F-ratio.
 - h. Tables of regression coefficients, their standard errors, and computed t-values with and without adjustment for groups.
 - i. Table of adjusted means and their standard errors.
 - j. Table of Intercepts for Total, Treatment, and Error.
 - k. Table of residuals for Total and Error.
 - l. Table of Sum-Squares within.
 - m. Table of Transgenerated Data Input with Case Numbers, and Group Designation (Optional).
3. Limitations per problem:
 - a. v - Number of variables read in. However, no more than 36 variables (including the Analysis-of-Variance variable) may enter the computation, i.e., $v + q \leq 36$. Also see limitations (b) and (f) below.
($3 \leq v \leq 99$.)
 - b. p - Number of Covariates ($1 \leq p \leq 35$).
 - c. t - Number of treatment groups ($2 \leq t \leq 99$).

- d. n_i - Sample size of the i^{th} treatment group ($1 \leq n_i \leq 999$).
- e. N - Total number of cases ($t + p + 1 \leq N \leq 99999$)
- f. q - Number of variables added to the original set after transgeneration ($-96 \leq q \leq 32$).
- g. m - Number of Transgeneration Cards ($0 \leq m \leq 99$).
- h. g - Number of Group Definition Cards ($0 \leq g \leq 99$).
- i. k - Number of Variable Format Cards ($1 \leq k \leq 10$).

The above limitations are built into the program and are checked for each problem. If violations occur, a message to that effect is printed, and the entire job is skipped by the system.

4. One set of data input may be processed an indefinite number of times. The user may select various combinations of variables by specifying different variable formats. For each variable selection of the data input, different transgeneration options may be used since data does not remain transformed from one variable selection to the next.

5. This program allows for the placement of cases into particular treatment groups in accordance with a boolean expression on the Group Definition Card. If the case under consideration satisfies the boolean expression given on the Group Definition Card, it is assigned to the treatment group specified on the cards. If the case does not satisfy the boolean expression, the case is skipped.

The boolean expression contains the following:

Relationships	{	GT (Greater Than)
		GE (Greater than or equal to)
		LT (Less Than)
		LE (Less than or equal to)
		EQ (Equal To)
		NE (Not Equal To)
Operations	{	A (And)
		ϕ (Or)

For example, 6 21GT3.000A05EQ1.000 ϕ 07LE68.50, states that a case is in treatment group 6 if variable 21 is greater than 3.000 and variable 05 equals 1.000 or variable 07 is less than or equal to 68.50.

The boolean expression should be prepared carefully so that there is no possibility of a case satisfying the expression for more than one group.

6. Information from this program includes that usually computed from standard multiple regression analysis. By an arbitrary partitioning of the data input into at least two treatment groups and ignoring the "WITHIN" output, the program may be used to perform multiple regression analysis.

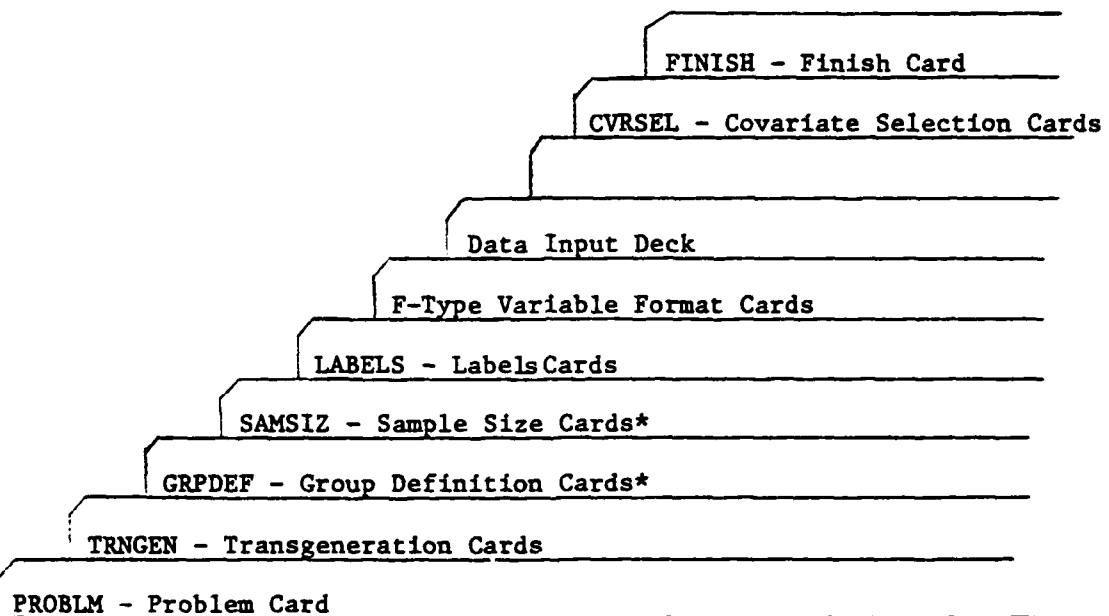
ORDER OF CARDS IN JOB DECK

Cards indicated by numbers enclosed in parentheses are optional. All other cards must be included in the order shown.

1. System Cards
2. Problem Card
- (3.) Standard Transgeneration Cards
- (4.) Group Definition Cards*
- (5.) Sample Size Cards*
- (6.) Labels Cards
7. F-Type Variable Format Cards
8. Data Input Cards (place data input deck here, if data input is from cards).
9. Covariate Selection Cards
 . . . Repeat 2. through 9. as desired.
10. Finish Card

*NOTE: Either (4) or (5) must be used but not both.

DECK SET-UP

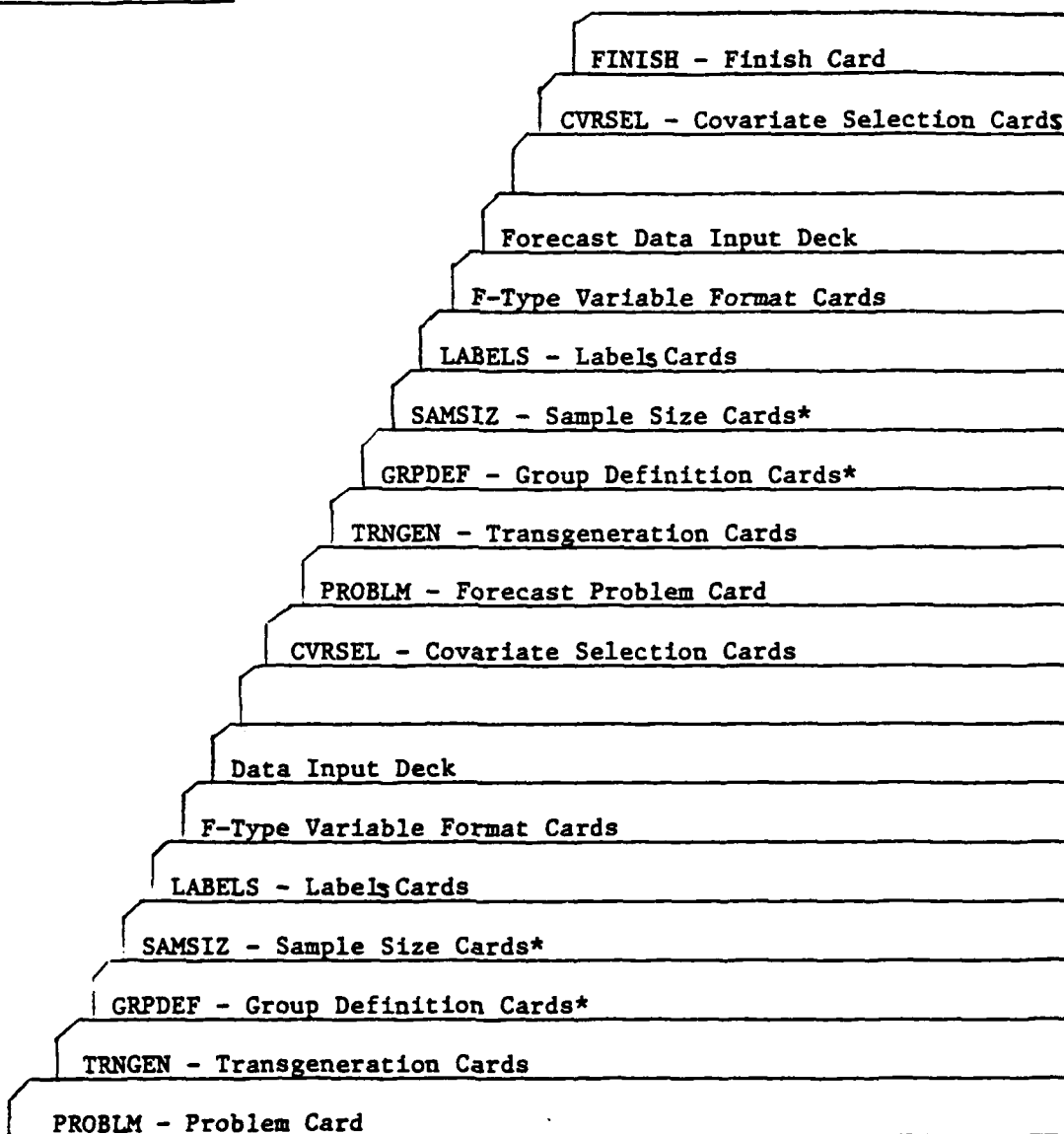


FORECAST DATA JOB DECK

The forecast case data is input in a second problem deck back-to-back with the problem deck that defines the statistical model as described above. The Forecast problem Deck is inserted after the Covariate Selection Cards of the previously defined problem deck. The complete job deck is described as follows:

1. Cards (1) through (9), as shown in the above order of cards in the job deck.
2. Problem Card. (Same as card (2) except for the following; Input the number of forecast cases in Column 15-19, input the characters "Yes" in Columns 61-63.)
3. Repeat cards (3) through (7).
4. Forecast Data Input Cards (Place data input deck here, if data input is from cards.)
5. Repeat card (9).
6. Finish card.

FORECAST DECK SET-UP:



PREPARATION OF PROGRAM CONTROL CARDSPROBLEM CARD (One problem card for each problem.)

Columns 1-6	PROBLM	(Mandatory)
Columns 7-12	Alphanumeric identification. This must be the same as the preceeding problem if and only if the same (untransgenerated) data input from that problem is to be the data input for this problem. (This feature avoids reproducing the same data input for more than one consecutive problem.)	
Columns 13-14	Number of treatment groups ($2 \leq t \leq 99$)	
Columns 15-19	Total number of cases for all treatment groups ($t + p + 1 \leq N \leq 99,999$)	
Columns 20, 21	Number of cards per case	
Columns 22, 23	Number of variables read in ($2 \leq V \leq 99$)	
Columns 24-26	000 - No variables added to the original set after transgeneration. q, q - Variables added to the original set after transgeneration. ($-97 \leq q \leq 34$)	

NOTE: Covariates and the variate (dependent variable) may be generated from the original variables as desired by the transgeneration process. The limit of 99 variables cannot be exceeded at any point during transgeneration. No more than 36 variables may enter the computation.

Columns 27, 28 Index of the variate or dependent variable.

Columns 29-31 YES - If the data input is to be printed; otherwise, leave blank.

Columns 32-34 Number of labels specified on Label Cards; if the labels are not specified, leave blank.

Columns 35-37 YES - If the data cards from the previous problem are to be used. (A different set of variable format cards may be used. If new data cards are to be used, leave these columns blank.)

Columns 38, 39 Number of Group Definition Cards ($0 \leq g \leq 99$)

NOTE: The number of groups defined by these cards must be the t groups specified in columns 13, 14.

Columns 40-42 YES - If residuals (within) are to be printed; otherwise, leave blank.

Columns 43-45 YES - If residuals (total) are to be printed; otherwise, leave blank.

Columns 46-48 YES - If the transgenerated variables entering the computation are to be printed; otherwise, leave blank.

Columns 49-57 Blank

Columns 58-60 YES - If the correlation matrices are to be printed; otherwise, leave blank.

Columns 61-63 YES - If the forecast data input is included; otherwise, leave blank.

Columns 65, 66 NO - If input tape is not to be rewound before reading.

Columns 67, 68 00 - No transgeneration.
m - m transgeneration cards ($0 \leq m \leq 99$)

Columns 69, 70 00 - If data input if from cards.
T - If data input is on logical BCD tape T, ($T \neq 1, 2, 3, 5, 6, 7$)

Columns 71, 72 Number of variable format cards ($1 \leq k \leq 10$)

TRANSGENERATION CARDS

The term transgeneration is used to include transformations of input variables and creation of new variables prior to the computations performed by the statistical program.

The transformations described below are performed on the values of the variables in each case. In these examples, the symbol X_i will denote the i^{th} variable as well as its value.

EXAMPLES:

$$\text{Log}_{10} X_4 \rightarrow X_4$$

$\text{Log}_{10} X_4$ replaces X_4

$$X_5^c \rightarrow X_1$$

X_5^c replaces X_1

$$X_2 + X_3 \rightarrow X_2$$

$X_2 + X_3$ replaces X_2

By successive transformations, more complicated relationships may be obtained. For example:

(i) To replace X_5 by $\sqrt{X_1^2 + X_3^2}$ four transformations are required:

Variables as they are stored at each step					
Transformation	X_1	X_2	X_3	X_4	X_5
$X_1^2 \rightarrow X_1$	X_1^2	X_2	X_3	X_4	X_5
$X_3^2 \rightarrow X_3$	X_1^2	X_2	X_3^2	X_4	X_5
$X_1 + X_3 \rightarrow X_5$	X_1^2	X_2	X_3^2	X_4	$X_1^2 + X_3^2$
$X_5 \rightarrow \sqrt{X_5}$	X_1^2	X_2	X_3^2	X_4	$\sqrt{X_1^2 + X_3^2}$

In this example, it can be seen that the original values of X_5 are irrelevant. Actually the variable X_5 may be a dummy variable introduced by the program specifically to provide capacity for creating new variables by transgeneration. Dummy variables may be required for intermediate storage in order to effect some transformations.

(ii) To replace X_1 by $\text{Exp}(-1/2 X_1^2)$ three transformations are required:

TRANSFORMATION

$$\begin{array}{ll}
 X_1 & \\
 X_1^2 \rightarrow X_1 & X_1^2 \\
 -1/2 X_1 \rightarrow X_1 & -1/2 X_1^2 \\
 \text{Exp } (X_1) \rightarrow X_1 & \text{Exp } (-1/2 X_1^2)
 \end{array}$$

(iii) To replace X_4 by $X_2 + \text{Log}_{10} (X_4 - X_3 + 100)$ four transformations are required:

TRANSFORMATION	X_1	X_2	X_3	X_4
$X_4 - X_3 \rightarrow X_4$	X_1	X_2	X_3	$X_4 - X_3$
$X_4 + 100 \rightarrow X_4$	X_1	X_2	X_3	$(X_4 - X_3 + 100)$
$\text{Log}_{10} X_4 \rightarrow X_4$	X_1	X_2	X_3	$\text{Log}_{10} (X_4 - X_3 + 100)$
$X_2 + X_4 \rightarrow X_4$	X_1	X_2	X_3	$X_2 + \text{Log}_{10} (X_4 - X_3 + 100)$

The transformations are performed in the order in which the transgeneration cards appear, so that, for example, the two transgenerations $2X_1 \rightarrow X_1$ followed by $X_1 - 2 \rightarrow X_1$, will result in $2X_1 - 2$, where as $X_1 - 2 \rightarrow X_1$ followed by $2X_1 \rightarrow X_1$ will result in $2(X_1 - 2)$.

TRANSGENERATION LIST

Notation to be used in the following transgeneration list:

i, j, k are variable indices (need not be different)

c is a constant

n is a number of cases or sample size

Code	Transgeneration	Restriction
01	$\sqrt{X_i} \rightarrow X_k$	$X_i \geq 0$
02	$\sqrt{X_i} + \sqrt{X_i + 1} \rightarrow X_k$	$X_i \geq 0$

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
03	$\text{Log}_{10} X_i \rightarrow X_k$	$X_i > 0$
04	$e^{X_i} \rightarrow X_k$	
05	$\text{ARCSIN} \sqrt{X_i} \rightarrow X_k$	$0 \leq X_i \leq 1$
06	$\text{ARCSIN} \sqrt{X_i/(n+1)} + \text{ARCSIN} \sqrt{(X_i+1)/(n+1)} \rightarrow X_k$	$0 \leq (X_i/n) \leq 1$
07	$1/X_i \rightarrow X_k$	$X_i \neq 0$
08	$X_i + C \rightarrow X_k$	
09	$X_i C \rightarrow X_k$	
10	$X_i^C \rightarrow X_k$	$X_i \geq 0$
11	$X_i + X_j \rightarrow X_k$	
12	$X_i - X_j \rightarrow X_k$	
13	$X_i X_j \rightarrow X_k$	
14	$X_i/X_j \rightarrow X_k$	$X_j \neq 0$
15	If $X_i \geq c$, $1 \rightarrow X_k$; otherwise $0 \rightarrow X_k$	
16	If $X_i \geq X_j$, $1 \rightarrow X_k$; otherwise $0 \rightarrow X_k$	
17	$\text{Log}_e X_i \rightarrow X_k$	$X_i > 0$
20	$\text{Sin } X_i \rightarrow X_k$	
21	$\text{Cos } X_i \rightarrow X_k$	
22	$\text{Arctan } X_i \rightarrow X_k$	
23	$X_i^{X_j} \rightarrow X_k$	$X_i > 0$
24	$C^{X_i} \rightarrow X_k$	$C > 0$

<u>Code</u>	<u>Transgeneration</u>	<u>Restriction</u>
41	If X_i is blank, then $C \rightarrow X_k$; otherwise X_k remains unchanged.	$X_i \neq -0^*$

*NOTE: In reading numeric fields, a blank field may be read as -0. ~

When a violation of a restriction in the right-hand column occurs during transgeneration, the program will print a diagnostic message and continue the computation with the data unchanged where the violation occurred.

CARD PREPARATION

Column 1-6	TRNGEN	(Mandatory)
Column 7-9	Variable index k	
Columns 10, 11	Code from transgeneration list	
Column 12-14	Variable index i	
Column 15-20	Variable index j or constant C	

The Constant C is punched with a decimal point if used with variables which have an F-Type format and without a decimal point if used with variables which have an I-Type format.

The transgeneration cards for the three examples cited above are:

- (i) TRNGEN001100012.0000
TRNGEN003100032.0000
TRNGEN00511001000003
TRNGEN00501005000000
- (ii) TRNGEN001100012.0000
TRNGEN00109001-0.500
TRNGEN00104001000000
- (iii) TRNGEN00412004000003
TRNGEN00408004100.00
TRNGEN00403004000000
TRNGEN00411004000002

GROUP DEFINITION CARDS

If the boolean selection feature is being used to place cases in their treatment groups, Group Definition Cards are prepared to select the cases for the t groups specified in columns 13, 14 of the Problem Card.

Column 1-6	GRPDEF	(Mandatory)
Columns 7, 8	Treatment group number to which case should be assigned if it satisfies the boolean expression.	

Columns 9, 10	Variable index for the first relationship
Columns 11, 12	Relationship
	GT (Greater Than)
	LT (Less Than)
	LE (Less Than or Equal To)
	GE (Greater Than or Equal To)
	EQ (Equal To)
	NE (Not Equal To)
Column 13-17	Constant used in the relationship (punch the decimal point).
Column 18	Operation
	A (AND)
	Ø (OR)
	* (This terminates the boolean expression)
Columns 19, 20	Variable index for the second relationship
Columns 21, 22	Relationship
...	
Column 68	Operation

NOTE: If additional boolean expressions are required for a particular treatment group, continue on a second card and terminate the expression with the asterisk (*) in the appropriate column. As many cards as needed may be used as long as the total does not exceed the limitation of 99. Since parentheses cannot be used for compound AND/OR expressions, AND is assumed to precede OR. The statement W OR X AND Y OR Z will operate as W OR (X AND Y) OR Z.

SAMPLE SIZE CARDS

Sample Size Cards are prepared if cases are specified by the user as being in certain treatment groups. These cards are not prepared if the boolean selection feature is used.

Column 1-6	SAMSIZ	(Mandatory)
Column 7-9	Number of cases in 1st treatment group	
Column 10-12	Number of cases in 2nd treatment group	
...		
Column 70-72	Number of cases in 22nd treatment group. If there are more than 22 treatment groups, continue keypunching a second card, a third card, etc., in the same manner, i.e.,	
Column 1-6	SAMSIZ	(Mandatory)
Column 7-9	Number of cases in the 23rd treatment group	
...		

LABELS CARDS

Labels cards allow the user to substitute alphanumeric names for the usual numeric indices (variable numbers) which appear on the printed output.

CARD PREPARATION

Columns 1-6	LABELS (Mandatory)
Columns 7-10	The number of the variable (or index) to be named. This number must be right-justified.
Columns 11-16	The corresponding alphanumeric name.
Columns 17-20	The number of another variable.
Columns 21-26	The corresponding alphanumeric name.
.	
.	
.	
Columns 67-70	The number of another variable.
Columns 71-76	The corresponding alphanumeric name. (Up to 7 per card.)

There may be from one to seven pairs of variable numbers and labels on each Labels Card. If desired, only one pair may be specified on each card. However, the total number of labels appearing on all the Labels Cards must equal the number of labels specified on the problem card.

It is not necessary to label all the variables. Those labeled may be listed in any order. EXAMPLE: Suppose the number of variables to be labeled as specified on the Problem Card is 8. Then the Labels Cards might be punched as:

```
LABELS  10 HEIGHT 07WEIGHT  06  AGE  11TYPE  17GROUP  03STATUS
LABELS  01GAIN  08SYSTEM
```

VARIABLE FORMAT CARDS (FOR INPUT)

The word "FORMAT" usually refers to the arrangement of information keypunched on a card. The format of a data card is a sequence of fields (variables), each of which occupies one or more columns. For the computer program a format is a set of specifications according to which information is read into the program from punched cards. The specifications tell the program which parts (or columns) of the card to skip, which parts to regard as all one number, and which parts to regard as several numbers in a row. For instance, it is the format which tells the program whether a card punched "345890021" is to be read in as "34.5, 890.0, .021", or "34., 9002.1", or "598.002", or "3, 4, 58, 90, 0, 2, 1", etc. It does this by giving the program a sequence of specifications which indicate the size of a field and

the method of handling that field (i.e., skipping it, entering it into the computer as a whole number, entering it into the computer as a number with two decimal digits, etc.).

The format also tells that program how to read in a certain set of cards when more than one are required to contain all the data for one case. The format describes the variables for each case. Each successive case is assumed to have the same format.

If the format for the program is fixed in advance, all data would have to be punched on cards in the same way for every study. Since this is not usually convenient, the program has been written so that the user may vary the format according to his preference for a particular study. For this reason, they are referred to as "Variable Formats". The program is informed of the format which is to be used by Variable Format Cards. The user must specify on the Problem Card the number of cards used to keypunch the variable format.

In addition to providing an economical method of preparing data input cards (by defining fields to be as small as possible, or "packing" the data), the variable format permits considerable freedom in controlling data input.

For instance:

- It allows the user to select for each case only those cards which have fields of interest. (See examples i, iii, iv below.)
- It allows the user to select only those fields of interest from among the fields of each card. (See examples ii, iii, iv.)
- It allows the user to scale the data input, i.e., shift the decimal point.

F-TYPE VARIABLE FORMAT

The F-Type format is the most frequently used in the program. It is required when the decimal point is keypunched on the card or when the decimal point is to be placed by the program. All data input values must be signed (+) or unsigned numbers with or without a decimal point punched.

SPECIFICATIONS:

1. "nFw.d" - F is the floating point (decimal) indicator; n is the number of fields of width W (includes sign and decimal point if punched); and d is the number of digits to the right of the decimal point if the decimal point is not punched ($0 \leq d \leq w$). If the decimal is punched, d is ignored. If n is not specified, it is assumed to be 1.
2. "sPnFw.d" - P is the scale indicator; s is a scale factor (explained below); and n, w, and d are defined in specification 1.
3. "mX" (Alphabetic X) - X is the skip indicator, and m is the number of columns to be skipped.

4. "/" - (slash) indicates "go to the next data card." Depending on its location in the format statement, the "/" will either direct the program to go immediately to the next card (ignoring any further information on the current card) or skip one card altogether. For example, if a format begins with "/", the program will automatically skip the first card, read the second, skip the third, etc. (See examples i, iii, iv.) "/" indicates "go to the card after next." Two slashes "/" will direct the program to skip two cards. Any number of slashes may be used.

The format is keypunched beginning with a left parenthesis, followed by a sequence of specifications and closed by a right parenthesis. Specifications 1, 2, and 3 are followed by a comma, except preceding a slash or right-hand parenthesis. Blank columns within the format are ignored.

EXAMPLES:

(i) (12F3.0, F4.0, 11F2.0/) punched in the first 21 columns of the variable format card, will describe 12 three-column fields followed by 1 four-column field, followed by 11 two-column fields, followed by an instruction to skip the second card, read the third, skip the fourth, etc.

(ii) (10x, F6.0, 2x, 2F3.0) punched in the first 19 columns, will instruct the program to direct entry of data from each card as follows:

1. Skip 10 columns.
2. Pick up a six-digit field in Column 11-16.
3. Skip 2 columns.
4. Pick up 2 three-digit fields in Columns 19-21 and 22-24.

(iii) (5X, 2F6.0, F1.0, 3X, F5.0/5X, F6.0) punched in the first 31 columns, will instruct the program to direct entry of data from each pair of cards as follows:

1. Skip 5 columns.
2. Pick up 2 six-digit fields in Columns 6-11 and 12-17.
3. Pick up a one-digit field in Column 18.
4. Skip three columns (Columns 19-21).
5. Pick up a five-digit field in Columns 22-26.
6. Go to second data card.
7. Skip 5 columns.
8. Pick up a six-digit field in Columns 6-11 of second card.
9. Repeat for each pair of data cards.

(iv) (5X, 2F6.0, F1.0, 3X, F5.0//5X, F6.0/F4.0, 2X, F1.0) punched in the first 45 columns, will instruct the program to direct entry of data from each set of four cards as follows:

- 1-5. Same as example (iii).
6. Skip second card and go to third card.
7. Skip 5 columns.
8. Pick up a six-digit field in Columns 6-11 of third card.
9. Go to fourth card.
10. Pick up a four-digit field in Column 1-4 of fourth card.
11. Skp two columns.
12. Pick up a one-digit field in Column 7.
13. Repeat for each set of four cards.

SCALING

Scaling may be indicated by using either the "nFw.d" specification or the "sPnFw.d" specification.

"nFw.d" SPECIFICATION

When the decimal point is not punched, the d of the above specification instructs the program to divide the whole picked up by 10^d . For example, F6.1 will specify that the number picked up in a six-column field be divided by 10, F6.2 will specify division by 100, and F6.6 will specify division by 1,000,000.

$$\text{Stored number} = \text{punched number} / 10^d.$$

EXAMPLES:

<u>Punched Number</u>	<u>Format Specification</u>	<u>Stored Number</u>
2468	F4.0	2468.0
3691	F4.1	369.1
4810	F4.3	4.810
4911.32	F7.0	4911.32
172115	F6.6	0.172115

"sPnFw.d" SPECIFICATION

Whether the decimal point is punched or not, the s of the above specification instructs the program to divide the number picked up by

10^s . For example, 2PF6.0 will specify division by 100, -2PF6.0 will specify division by .01. If the decimal point is punched:

$$\text{Stored number} = \text{Punched number} / 10^s$$

If the decimal is not punched:

$$\text{Stored number} = \text{Punched number} / 10^{s+d}$$

EXAMPLES:

<u>Punched Number</u>	<u>Format Specification</u>	<u>Stored Number</u>
7432	1PF4.0	743.2
74.32	-5PF5.0	7432000.0
7432	2PF4.3	0.07432
7432	1P2F2.0	7.4 & 3.2
7432	2P2F2.1	0.074 & 0.032
7432	OPF4.1	743.2
7.432	-3PF5.0	7432.0

MIXED "nFw.d" AND "sPnFw.d" SPECIFICATIONS:

Once the sPnFw.d specification has been used, it will hold for all Fw.d specifications to the right of it until another sPnFw.d is encountered. If the sPnFw.d specification is not necessary to the right of its occurrence within the variable format statement, then OPFw.d should be used for the next specification to the right, which will hold then for the remaining specifications.

EXAMPLES:

(v) (2F3.1, 2x, F4.2, -6PF3.0, F4.0) - The program interprets the last field as -6PF4.0.

(vi) (2F3.1, 2X, F4.2, -6PF3.0, OPF3.0) - The program interprets the last field as F3.0.

(vii) (1PF3.0, F2.0, OPF3.1, F4.2, F4.0) - The program interprets the second field as 1PF2.0.

DATA INPUT CARDS

The form of the data input when Sample Size Cards are prepared is illustrated in the following example:

		<u>VARIABLES</u>				
		<u>CASES</u>	<u>1</u>	<u>2</u>	<u>. . .</u>	<u>v</u>
Treatment Group 1	1		$X_{1,1,1}$	$X_{1,1,2}$	$. . .$	$X_{1,1,v}$
	2		$X_{1,2,1}$	$X_{1,2,2}$	$. . .$	$X_{1,2,v}$
	$. . .$		$. . .$	$. . .$	$. . .$	$. . .$
	n_1		$X_{1, n_1, 1}$	$X_{1, n_1, 2}$	$. . .$	$X_{1, n_1, v}$

		<u>VARIABLES</u>				
		<u>CASES</u>	<u>1</u>	<u>2</u>	<u>. . .</u>	<u>v</u>
Treatment Group 2	1		$X_{2,1,1}$	$X_{2,1,2}$	. . .	$X_{2,1,v}$
	2		$X_{2,2,1}$	$X_{2,2,2}$	. . .	$X_{2,2,v}$
	. . .		. . .	. . .	. . .	. . .
	n_2		$X_{2,n_2,1}$	$X_{2,n_2,2}$	. . .	$X_{2,n_2,v}$

. . .

		<u>VARIABLES</u>				
		<u>CASES</u>	<u>1</u>	<u>2</u>	<u>. . .</u>	<u>v</u>
Treatment Group t	1		$X_{t,1,1}$	$X_{t,1,2}$	. . .	$X_{t,1,v}$
	2		$X_{t,2,1}$	$X_{t,2,2}$	. . .	$X_{t,2,v}$
	. . .		. . .	. . .	. . .	. . .
	n_t		$X_{t,n_t,1}$	$X_{t,n_t,2}$	. . .	$X_{t,n_t,v}$

The preparation of data input on cards is as follows:

1. The cards must be arranged in consecutive treatment groups.
2. Within each treatment group the cards must be arranged in consecutive cases.
3. For each case the variables must be keypunched in fields from left to right across the card (and on to successive cards, if necessary).
4. Each case must begin on a new card.

If the data input is from a prepared BCD tape, the arrangement of data must be in the same form as indicated above. Each case must be a logical record with the last record consisting of the last case of the t^{th} treatment group.

When Group Definition Cards are used, the data is prepared in a similar manner as above considering the data as a single treatment group.

COVARIATE SELECTION CARDS

The indices to be used in specifying the covariates are the indices corresponding to the variables after transgeneration.

Columns 1-6	CVRSEL (Mandatory)
Columns 7, 8	Number of Covariates for this problem ($1 \leq p \leq 35$)
Columns 9, 10	Index of the 1st Covariate
Columns 11, 12	Index of the 2nd Covariate
. . .	
Columns 71, 72	Index of the 32nd Covariate

If there are more than 32 Covariates, they are specified on a second Covariate Selection Card as follows:

Columns 1-6	CVRSEL (Mandatory)
Columns 7, 8	Index of the 33rd Covariate
Columns 9, 10	Index of the 34th Covariate
Columns 11, 12	Index of the 35th Covariate

TAPE INPUT

The program has provision for input of data prepared on tape or disk by means of an alternate input tape. Use of tapes or disks for data provide a very compact storage of data files. One data file may be reread several times to allow several analyses from the same data file by rewinding the alternate input tape.

When the data input consists of p variables on n cases written in consecutive Logical records on magnetic tape in Binary Coded Decimal (BCD) form, a special data input tape may be used. The logical record will usually be the equivalent of one card. When a binary tape is used for data input, it is assumed to be in the standard FORTRAN binary tape format. The user will specify which tape drive is to receive the special data tape.

The program uses several tapes for intermediate storage. Tape numbers 2, 3, 7, 8, and 9, in addition to 5 and 6, may not be specified as alternate input or output tapes for the program.

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A P P E N D I X D
COMPUTATIONAL PROCEDURE

MADC-77036-30

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LIST OF SYMBOLS

a, b, k, m	covariate designators
A_k	Total regression coefficient of k^{th} covariate
B_k, β_k	Error (Within) regression coefficient of k^{th} covariate
e_{ij}	residual variate error for the j^{th} sample of i^{th} treatment group
E_{about}	Error (Within) sum of squared deviation about regression equation
E_{due}	Error (Within) sum of squared deviation due to regression equation
E_{km}	inverse of $E_{XX_{km}}$ matrix
$E_{XX_{ab}}$	Error (Within) sum of squared deviation for a^{th} and b^{th} covariates
E_{XY_k}	Error (Within) sum of squared deviation for variate and k^{th} covariate
E_{YY}	Error (Within) sum of squared deviation for variates
i	Treatment group designator
j	treatment group sample size designator
n_i	sample size of the i^{th} treatment group
N	total number of cases
S_{about}	Total sum of squared deviation about regression equation
S_{due}	Total sum of squared deviation due to regression equation
S_{km}	inverse of $S_{XX_{km}}$ matrix
$S_{XX_{ab}}$	Total sum of squared deviation for a^{th} and b^{th} covariates
S_{XY_k}	Total sum of squared deviation for variate and k^{th} covariate

S_{YY}	Total sum of squared deviation for variate
$SE(A_k)$	standard error of k^{th} total regression coefficient
$SE(ADJ Y_{i.})$	standard error of adjusted variate mean for the i^{th} treatment group
$SE(B_k)$	standard error of k^{th} error (within) regression coefficient
t_k	computed T-value of k^{th} regression coefficient
$T_{XY_{ab}}$	Treatment (Between) sum of squared deviation for a^{th} and b^{th} covariates
T_{XY_k}	Treatment (Between) sum of squared deviation for variate and k^{th} covariate
T_{YY}	Treatment (Between) sum of squared deviation for variates
X_{ijk}	k^{th} covariate for the j^{th} sample of i^{th} treatment group
$X_{i.k}$	k^{th} covariate mean for the i^{th} treatment group
$X_{..k}$	k^{th} covariate mean, ingoring treatments
Y_{ij}	variate for the j^{th} sample of i^{th} treatment group
$Y_{i.}$	variate mean for the i^{th} treatment group
α_i	differential effect on mean for the i^{th} treatment group
μ	overall mean
$\mu + \alpha_i, ADJ(Y_{i.})$	adjusted covariate mean for the i^{th} treatment group

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ANALYSIS OF COVARIANCE COMPUTER PROGRAM WITH MULTIPLE COVARIATE--ETC(U)
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DISCUSSION

This section presents the computational procedure for the Analysis-of-Covariance statistical model together with the intermediate residual calculations. The first step in the formulation of the statistical model equations is the calculation of the variate and covariate group means. Next, the cross product deviation matrices for the Total, Treatment, and Error solutions are formed and inverted to solve for the regression coefficients. The final step in the formulation of the model equations is the solution of the adjusted variate group means. The inclusion in this report of the model equations and associated correlation equations is not meant as a full treatise on the subject. A thorough treatment of the governing statistical equations can be found in any standard text (i.e., references (b) and (c)).

GOVERNING EQUATIONSCOMPUTATIONAL PROCEDURE

Statistical Model:

$$Y_{ij} = \mu + \alpha_i + \beta_1 (X_{ij1} - X_{1.1}) + \dots + \beta_p (X_{ijp} - X_{1.p}) + e_{ij}$$

Notation:

$$X_{ijk} \text{ (} k^{\text{th}} \text{ Covariate), } Y_{ij} = X_{ij(p+1)} \text{ (Variate)}$$

$$i = 1, 2, \dots, t \quad (\text{Treatment Groups})$$

$$j = 1, 2, \dots, n_i \quad (\text{Sample size of the } i^{\text{th}} \text{ treatment group})$$

$$k = 1, 2, \dots, p \quad (\text{Covariates})$$

$$m = 1, 2, \dots, p \quad (\text{Covariates})$$

$$a = 1, 2, \dots, p+1 \quad (\text{Covariates} + 1 \text{ variate})$$

$$b = 1, 2, \dots, p+1 \quad (\text{Covariates} + 1 \text{ variate})$$

Step 1

$$1. N = \sum_{i=1}^t n_i \quad (\text{Total number of cases})$$

$$2. \bar{Y}_{i.} = \frac{1}{n_i} \sum_{j=1}^{n_i} Y_{ij} \quad (\text{Variate mean for the } i^{\text{th}} \text{ group})$$

$$3. \bar{X}_{i.k} = \frac{1}{n_i} \sum_{j=1}^{n_i} X_{ijk} \quad (\text{Covariate means for the } i^{\text{th}} \text{ group and } k^{\text{th}} \text{ covariate})$$

$$4. \bar{X}_{..k} = \frac{1}{N} \sum_{i=1}^t \sum_{j=1}^{n_i} X_{ijk} \quad (\text{kth Covariate mean, ignoring treatments})$$

(2) and (3) are printed under the heading variable means for each group.

Step 2. Sums of Squared Deviation

1. Total

$$S_{XX_{ab}} = \sum_{i=1}^t \sum_{j=1}^{n_i} X_{ija} X_{ijb} - \frac{\left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ija} \right) \left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ijb} \right)}{N}$$

$$S_{XY_k} = S_{XX_{k(p+1)}}$$

$$S_{YY} = S_{XX_{(p+1)(p+1)}}$$

2. Treatment (Between)

$$T_{XX_{ab}} = \sum_{i=1}^t \frac{\left(\sum_{j=1}^{n_i} X_{ija} \right) \left(\sum_{j=1}^{n_i} X_{ijb} \right)}{n_i} - \left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ija} \right) \frac{\left(\sum_{i=1}^t \sum_{j=1}^{n_i} X_{ijb} \right)}{N}$$

$$T_{XY_k} = T_{XX_{k(p+1)}}$$

$$T_{YY} = T_{XX_{(p+1)(p+1)}}$$

3. Error (Within)

$$E_{XX_{ab}} = S_{XX_{ab}} - T_{XX_{ab}}$$

$$E_{XY_{k(p+1)}} = S_{XY_{k(p+1)}} - T_{XY_{k(p+1)}}$$

$$E_{YY} = S_{YY} - T_{YY}$$

(1), (2), and (3) are printed under the heading Sums of Squares and Cross Product Matrix for Total, Treatment, and Error.

Step 3. Regression Coefficients

1. Matrices $S_{XX_{km}}$ and $E_{XX_{km}}$ are inverted.

$$\text{Let } S_{km} = (S_{XX_{km}})^{-1}, E_{km} = (E_{XX_{km}})^{-1}$$

$$2. B_k = \sum_{m=1}^P (E_{km})(E_{XY_m}) \quad (\text{Error Coefficients})$$

$$3. A_k = \sum_{m=1}^P (S_{km})(S_{XY_m}) \quad (\text{Total Coefficients})$$

(1) is printed under the heading, Inverse of the Covariates Cross Product Matrix for Total and Error.

Step 4. Regression Sums of Squares

- (1) Error (Within)

$$E_{\text{due}} = \sum_{k=1}^P B_k E_{XY_k}$$

$$E_{\text{about}} = E_{YY} - E_{\text{due}}$$

2. Total

$$S_{\text{due}} = \sum_{k=1}^P A_k S_{XY_k}$$

$$S_{\text{about}} = S_{YY} - S_{\text{due}}$$

(1) and (2) are printed in the Analysis of Covariance Table.

Step 5. Standard Errors of Regression Coefficients and computed t - VALUES

<u>STANDARD ERRORS</u>	<u>COMPUTED t - VALUES</u>
ERROR: $SE(B_k) = \sqrt{E_{\text{about}}} \cdot E_{kk}$	$t_k = \frac{B_k}{SE(B_k)}$
TOTAL: $SE(A_k) = \sqrt{S_{\text{about}}} \cdot S_{kk}$	$t_k = \frac{A_k}{SE(A_k)}$

These and (1) and (3) from Step 3 are printed in the output under the heading TABLE OF COEFFICIENTS, STANDARD ERRORS AND COMPUTED T-VALUES.

Step 6. Adjusted Means and Standard Errors of Adjusted Means

(1) Adjusted Means

$$\text{ADJ } (Y_{i.}) = Y_{i.} - \sum_{m=1}^P B_m (X_{i.m} - X_{..m})$$

(2) Standard Errors of Adjusted Means

$$\text{SE}(\text{ADJ } Y_{i.}) = \left\{ E_{\text{due}} \left[\frac{1}{n_i} + \sum_{k=1}^P \sum_{m=1}^P (X_{i.k} - X_{..k}) E_{km} (X_{i.m} - X_{..m}) \right] \right\}^{1/2}$$

These are printed in the output under the heading, Table of Adjusted Means and Standard Errors.

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