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AUTHOR: Yushchenko, K.L.

TITLE: On the completeness of the means of 'address language'

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 10,
1962, 1305 - 1307

TEXT: In order to establish the universality of an 'address language', it is sufficient to demonstrate the possibility of writing the algorithm of some Turing machine in it. The author considers the nature of the Turing machine, and shows that the address language is suitable for transferring as much of the initial information to the address reflection as is desired. For the description of an arbitrary Turing machine, the following address language means are shown to be sufficient: 1) address dispatch $a \Rightarrow b$; 2) absolute transition according to a formula which includes a second rank address $^2a \circ b$; 3) second rank address dispatch; 4) addition operation of the form $a + \delta \Rightarrow a$. It is shown that information concerning not only an actual problem but the class of problems may be referred to the initial address reflection.

Card 1/2

On the completeness of the means ...

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D251/D308

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SUBMITTED: December 28, 1961

Card 2/2