DECUS

PROGRAM LIBRARY

DECUS NO.	L-14
TITLE	MEAN
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DATE	Submitted: January, 1968
FORMAT	

DECUS Program Library Write-up   DECUS No. L-14

MEAN is a program for calculating the mean and standard deviation of a set of numbers.

This program is based on the article by Dr. Sapega in DECUSCOPE, Volume 6, Number 3. For the mean, his Method 2 is used, and for the standard deviation, his Method 3 is used. The calculation is performed using IFOR L8, OFOR L8, DBLFLT, and SQROOT, the manuscripts of which have been slightly modified so that the tags are different in each part of the program.

Execution

Call up MEAN, start 20; a carriage return follows. Type in each number in any form used by IFOR L8, follow each with an EOL. When the table of numbers is complete, type EOL after the last number and then M. The mean followed by the standard deviation will be typed out in the form used by OFOR L8. Immediately after this, a new table of numbers can be typed in.

Errors

If an error is made in typing in a number, type rubout. If it is the first number in the table, you get a carriage return and the correct number can then be typed. If the error is in the middle of the table, an X is typed alongside the incorrect number followed by a carriage return ready for the correct number.

This program occupies almost all the 2K of LINC store.