SEQUENTIAL DIFFERENCE

PURPOSE

Compute the sequential differences (i.e., X(I) - X(I-1)) between the elements of a variable.

SYNTAX

LET <var> = SEQUENTIAL DIFFERENCE <x1> <SUBSET/EXCEPT/FOR qualification>
where <x1> is a response variable;
<var> is a variable (of length 1 less than <x1>) where the sequential differences are saved;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES

LET XD = SEQUENTIAL DIFFERENCE PRESSURE

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

CUMULATIVE SUM	=	Compute the cumulative sum of the elements of a variable.
SORT	=	Sort the elements of a variable.
COCODE	=	Generate a cocoded variable.
CODE	=	Generate a coded variable.
SEQUENCE	=	Generate a sequence of numbers.
PATTERN	=	Generate numbers with a specific pattern.

APPLICATIONS

Mathematics

IMPLEMENTATION DATE

Pre-1987

PROGRAM

```
LET X1 = DATA 12 4 2 3 9 7
LET XD = SEQUENTIAL DIFFERENCE X1
```

The variable XD will contain the following values:

8, 2, 1, 6, 2