CUMULATIVE SUM

PURPOSE
Compute the cumulative (or partial) sum for a variable. That is, for element I of the given variable, the cumulative sum is the sum of elements 1 through I.

SYNTAX
LET <y2> = CUMULATIVE SUM <y1>   <SUBSET/EXCEPT/FOR qualification>
where <y1> is a response variable;
    <y2> is a variable where the computed cumulative sums are stored;
and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES
LET Y2 = CUMULATIVE SUM Y1
LET Y2 = CUMULATIVE SUM Y1 SUBSET Y1 > 0

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
SUM	=	Compute the sum of a variable.
CUMULATIVE PRODUCT	=	Compute the cumulative product of a variable.
CUMULATIVE INTEGRAL	=	Compute the cumulative integral of a variable.

APPLICATIONS
Mathematics

IMPLEMENTATION DATE
Pre-1987

PROGRAM
LET FUNCTION F = X**2 + 2*X - 8
LET X = SEQUENCE 0 .1 10
LET Y1 = X
LET Y2 = CUMULATIVE SUM Y1