PRIME NUMBERS

PURPOSE
Compute prime numbers.

DESCRIPTION
Prime numbers are integers greater than or equal to 2 that are only divisible by 1 and the number itself.

SYNTAX
LET <resp> = PRIME NUMBERS FOR I = <start> <inc> <stop>
where <resp> is a variable where the prime numbers are saved;
<start> is the first row in <resp> where the pattern is saved (typically has a value of 1);
<inc> is the row increment for saving values in <resp> (typically has a value of 1);
and <stop> is the last row in <resp> for saving values.

This syntax saves the first N (where N is determined by the values of <start>, <inc>, and <stop>) prime numbers in the variable <resp>.

EXAMPLES
LET PRIME = PRIME NUMBERS FOR I = 1 1 100
LET PRIME = PRIME NUMBERS FOR I = 1 1 10

DEFAULT
None

SYNONYMS
None

RELATED COMMANDS
SEQUENCE = Generate a sequence of numbers.
PATTERN = Generate numbers with a specific pattern.
FIBONNACCI NUMBERS = Generate Fibonacci numbers.
LOGISTIC NUMBERS = Generate numbers from a logistic sequence.
CANTOR NUMBERS = Generate numbers from a Cantor set.
DATA = Place numbers in a variable.

APPLICATIONS
Mathematics

IMPLEMENTATION DATE
87/10

PROGRAM
LET PRIME = PRIME NUMBERS FOR I = 1 1 50
PLOT PRIME