

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