

**PATTERN****PURPOSE**

Generate numbers with a specific pattern.

**SYNTAX 1**

LET <resp> = PATTERN <list>

where <list> is a list of numbers or parameters;

and <resp> is a variable where the given numbers are saved.

With this syntax, only one iteration of the pattern is saved.

**SYNTAX 2**

LET <resp> = PATTERN <list> FOR I = <start> <inc> <stop>

where <list> is a list of numbers or parameters;

<resp> is a variable where the given 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.

With this syntax, the pattern is repeated in <resp> until all the rows specified by the FOR clause are filled.

**EXAMPLES**

LET X = PATTERN 1 3 4 1 1 1 0 0 2

LET X = PATTERN 1 3 4 1 1 1 0 0 2 FOR I = 1 1 100

**DEFAULT**

None

**SYNONYMS**

The DATA command is equivalent to SYNTAX 1.

**RELATED COMMANDS**

SEQUENCE	=	Generate a sequence of numbers.
FIBONNACCI NUMBERS	=	Generate Fibonacci numbers.
PRIME NUMBERS	=	Generate prime numbers.
DATA	=	Place numbers in a variable.
LOGISTIC NUMBERS	=	Generate numbers from a logistic sequence.
CANTOR NUMBERS	=	Generate numbers from a Cantor set.

**APPLICATIONS**

Generating data sequences

**IMPLEMENTATION DATE**

Pre-1987