**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 0 0 2
LET X = PATTERN 1 3 4 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.
- **FIBONACCI 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