IND

PURPOSE

Compute an indicator function.

DESCRIPTION

Each element of a variable equal to some target value is set to 1 while all other elements are set to 0.

SYNTAX

LET <y2> = IND(<y1>,<tag>)

<SUBSET/EXCEPT/FOR qualification>

where <y1> is a variable or a parameter; <tag> is a number, parameter, or a variable which <y1> is compared to;

 $\langle y2 \rangle$ is a variable or a parameter (depending on what $\langle y1 \rangle$ is) where the computed indicator function is stored; and where the $\langle SUBSET/EXCEPT/FOR$ qualification \rangle is optional.

EXAMPLES

LET A = IND(14,4) LET A = IND(A1,4) LET X2 = IND(X1,4) LET X2 = IND(X1-4,A2)

NOTE

In most cases, the target value is a single value so the second argument is typically a number or a parameter. However, if the second argument is a variable, then a pairwise test is made. That is, the element of the first argument is compared to the corresponding element of the second element.

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

ABS	=	Compute the absolute value of a number.
MOD	=	Compute the modulo (i.e., the remainder of x/y) of two numbers
MIN	=	Compute the minimum of two numbers.
MAX	=	Compute the maximum of two numbers.
DIM	=	Compute the positive difference of two numbers.

APPLICATIONS

Data transformation

IMPLEMENTATION DATE

Pre-1987

PROGRAM

LET Y1 = DATA 1 4 9 16 25 4 22 7 LET TAG = 4 LET Y2 = IND(Y1,TAG)

The variable Y2 is set to $0\ 1\ 0\ 0\ 1\ 0\ 0$.