LOGICAL XOR

PURPOSE

Carry out the logical exclusive disjunction of 2 variables where true values are coded as 1 and false values are coded as 0.

DESCRIPTION

```
LET Y = DATA 1 0 1 0 1 1 0 0 0 1 0 1
```

For long sequences, you can use the SERIAL READ command. The IND function can be helpful in converting a numeric variable that is not coded with 0 and 1's to one that is.

SYNTAX

EXAMPLES

LET Y3 = LOGICAL XOR Y1 Y2

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

LOGICAL AND = Carries out a logical and. LOGICAL OR = Carries out a logical or.

LOGICAL NAND = Carries out a logical negative and.

LOGICAL NOR = Carries out a logical nor.

LOGICAL IFF = Carries out a logical if-and-only-if.

LOGICAL NOT = Carries out a logical not.

REFERENCE

"Handbook of Mathematical Tables and Functions," Edition 5, Burington, McGraw-Hill, 1973 (page 132).

APPLICATIONS

Mathematics

IMPLEMENTATION DATE

87/10

PROGRAM

LET Y1 = DATA 1 1 0 0 LET Y2 = DATA 1 0 1 0 LET Y3 = LOGICAL XOR Y1 Y2 SET WRITE DECIMALS 0 WRITE Y1 Y2 Y3