# **LOGICAL NOR**

#### **PURPOSE**

Carry out the logical negative 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**

and where the <SUBSET/EXCEPT/FOR qualification> is optional and rarely used in this context.

### **EXAMPLES**

LET Y3 = LOGICAL NOR 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 XOR = Carries out a logical xor.

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

LOGICAL NOT (LET) = 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 NOR Y1 Y2 SET WRITE DECIMALS 0 WRITE Y1 Y2 Y3