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1 PROGRAM FACTORIAL 0000010
2 C THIS PROGRAM COMPUTES THE FACTORIAL OF A GIVEN NUMBER 0000020
3 INTEGER N, FACT, I 0000030
4 PRINT *, 'ENTER A POSITIVE INTEGER:' 0000040
5 READ *, N 0000050
6 IF (N .LT. 0) THEN 0000060
7 PRINT *, 'INVALID INPUT! MUST BE POSITIVE.' 0000070
8 STOP 0000080
9 ENDIF 0000090
10 FACT = 1 0000100
11 I = 1 0000110
12 100 IF (I .GT. N) GOTO 200 0000120
13 FACT = FACT * I 0000130
14 I = I + 1 0000140
15 GOTO 100 0000150
16 200 PRINT 300, N, FACT 0000160
17 C OUTPUT THE RESULT 0000170
18 300 FORMAT(' FACTORIAL OF ', 0000180
19 & I4, 0000181
20 & ' IS ', 0000182
21 & I10) 0000183
22 C END OF PROGRAM 0000190
23 END 0000200