```
      PROGRAM FACTORIAL                                    0000010
C     THIS PROGRAM COMPUTES THE FACTORIAL OF A GIVEN NUMBER 0000020
      INTEGER N, FACT, I                                   0000030
      PRINT *, 'ENTER A POSITIVE INTEGER:'                 0000040
      READ *, N                                            0000050
      IF (N .LT. 0) THEN                                   0000060
          PRINT *, 'INVALID INPUT! MUST BE POSITIVE.'      0000070
          STOP                                             0000080
      ENDIF                                                0000090
      FACT = 1                                             0000100
      I = 1                                                0000110
 100  IF (I .GT. N) GOTO 200                               0000120
      FACT = FACT * I                                      0000130
      I = I + 1                                            0000140
      GOTO 100                                             0000150
 200  PRINT 300, N, FACT                                   0000160
C     OUTPUT THE RESULT                                    0000170
 300  FORMAT(' FACTORIAL OF ',                             0000180
     &        I4,                                          0000181
     &       ' IS ',                                       0000182
     &        I10)                                         0000183
C     END OF PROGRAM                                       0000190
      END                                                  0000200
```