

PROBLEM 1

Factorial Calculator

If n is an integer greater than 0, n factorial ($n!$) is the product: $n * (n-1) * (n-2) * (n-3) \dots *$

By convention, $0! = 1$.

You must write a program that allows a user to enter an integer between 1 and 7.

Your program must then compute the factorial of the number entered by the user.

Your solution **MUST** actually perform a computation (i.e., you may not simply print "5040" to the screen as a literal value if the input is 7).

Example 1

Enter a number: 4

4! = 24

Example 2

Enter a number: 7

7! = 5040