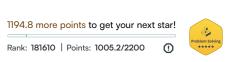
Extra Long Factorials *



X

Your Extra Long Factorials submission got 20.00 points.

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Problem

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The factorial of the integer n, written n!, is defined as:

$$n! = n \times (n-1) \times (n-2) \times \cdots \times 3 \times 2 \times 1$$

Calculate and print the factorial of a given integer.

Function Description

Complete the extraLongFactorials function in the editor below. It should print the result and return.

extraLongFactorials has the following parameter(s):

• n: an integer

Note: Factorials of n > 20 can't be stored even in a 64 - bit long long variable. Big integers must be used for such calculations. Languages like Java, Python, Ruby etc. can handle big integers, but we need to write additional code in C/C++ to handle huge values.

We recommend solving this challenge using BigIntegers.

Input Format

Input consists of a single integer \boldsymbol{n}

Constraints

 $1 \le n \le 100$

Output Format

Print the factorial of n.

Sample Input

25

Sample Output

15511210043330985984000000

Explanation

 $25! = 25 \times 24 \times 23 \times \cdots \times 3 \times 2 \times 1$

Change Theme Language Python 3



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```
3
    import math
    import os
 4
    import random
 5
    import re
 6
    import sys
 9
     # Complete the 'extraLongFactorials' function below.
10
11
     # The function accepts INTEGER n as parameter.
12
13
14
    def extraLongFactorials(n):
15
16
         # Write your code here
17
         result = 1
18
         for i in range(1, n+1):
19
             result *= i
         print(result)
20
21
22
    if __name__ == '__main__':
23
         n = int(input().strip())
24
25
         extraLongFactorials(n)
```

EMACS Submit Code Run Code Test against custom input You have earned 20.00 points! You are now 1194.8 points away from the 6th star for your problem solving badge. 1005.2/2200 Congratulations Next Challenge You solved this challenge. Would you like to challenge your friends? Test case 2 △Hidden Test Case Unlock this testcase for 5 hackos.

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