Extra Long Factorials

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Problem Submissions Leaderboard Discussions Editorial

You are given an integer N. Print the factorial of this number.

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

Input
Input consists of a single integer N, where $1 \leq N \leq 100$.

Output
Print the factorial of N.

Example
For an input of **25**, you would print **15511210043330985984000000**.

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.

Submissions: 52555
Max Score: 20
Difficulty: Medium

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Current Buffer (saved locally, editable) Python 2

```
#!/bin/python

import sys

product = 1
n = int(raw_input().strip())

while n > 0:
    product = product * n
    n = n - 1

print(product)
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code