



All Domains > Algorithms > Implementation > Extra Long Factorials

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Extra Long Factorials

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Problem

Submissions

Leaderboard

Discussions

Editorial

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

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

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 BigInteger.

[f](#) [t](#) [in](#)Submissions: [39612](#)

Max Score: 15

Difficulty: Medium

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Python 2



```
1 #!/bin/python
2
3 import math
4
5 n = int(raw_input().strip())
6 print math.factorial(n)
7
8
```

Line: 6 Col: 24

[Upload Code as File](#)☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #1

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