

Extra Long Factorials



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 $1 \le N \le 100$.

Output

Print the factorial of N.

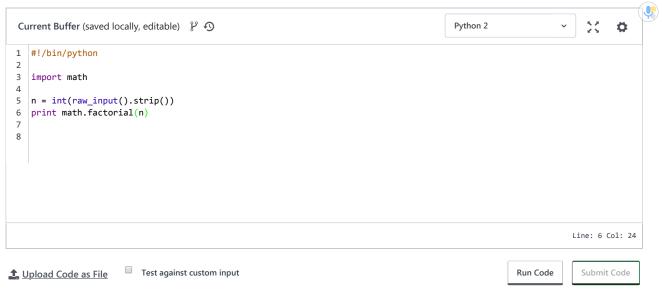
Example

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: 39612 Max Score: 15 Difficulty: Medium Rate This Challenge: ☆☆☆☆



Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

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