Extra Long Factorials

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Problem Statement

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: 26317

Max Score: 20

Difficulty: Moderate

More

Current Buffer (saved locally, editable) Java 8

```
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public static void main(String[] args) {
7          /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named
   Solution. */
8      }
9  }
```

Line: 1 Col: 1

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