Extra Long Factorials

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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:67539
Max Score:20
Difficulty: Medium

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Current Buffer (saved locally, editable) Java 7

```
1  import java.io.*;
2  import java.util.*;
3  import java.text.*;
4  import java.math.*;
5  import java.util.regex.*;
6
7  public class Solution {
8
9      public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         int n = in.nextInt();
12     }
13 }
14
```

Line: 1 Col: 1

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