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Extra Long Factorials

by [vatsalchanana](#)

Problem

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Problem Statement

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

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

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 BigIntegers.

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Submissions: 26317

Max Score: 20

Difficulty: Moderate

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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

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