



Practice

Compete

Jobs

Rank

Leaderboard



bor0s

Dashboard > Algorithms > Implementation > Extra Long Factorials

Badge Progress

Points: 426.00 Rank: 76529

Extra Long Factorials



by vatsalchanana

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 BigIntegers.

[f](#) [t](#) [in](#)

Submissions: 52555

Max Score: 20

Difficulty: Medium

Rate This Challenge:

☆☆☆☆

[More](#)

Current Buffer (saved locally, editable)

Python 2



```
1 #!/bin/python
2
3 import sys
4
5 product = 1
6 n = int(raw_input().strip())
7
8 while n > 0:
9     product = product * n
10    n = n - 1
11
12 print(product)
```

Line: 1 Col: 1

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

Copyright © 2017 HackerRank. All Rights Reserved

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)