

# Extra Long Factorials

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.