## Extra Long Factorials

The factorial of the integer $n$, written $n$ !, is defined as:

$$
n!=n \times(n-1) \times(n-2) \times \cdots \times 3 \times 2 \times 1
$$

Calculate and print the factorial of a given integer.
For example, if $n=30$, we calculate $30 \times 29 \times 28 \times \cdots \times 2 \times 1$ and get 265252859812191058636308480000000.

## Function Description

Complete the extraLongFactorials function in the editor below. It should print the result and return.
extraLongFactorials has the following parameter(s):

- $n$ : an integer

Note: Factorials of $n>20$ can't be stored even in a $64-b i t$ 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 $\mathrm{C} / \mathrm{C}++$ to handle huge values.

We recommend solving this challenge using BigIntegers.

## Input Format

Input consists of a single integer $n$

## Constraints

$1 \leq n \leq 100$

## Output Format

Print the factorial of $n$.

## Sample Input

25

Sample Output
15511210043330985984000000
Explanation
$25!=25 \times 24 \times 23 \times \cdots \times 3 \times 2 \times 1$

