## https://course.acciojob.com/idle?question=f36b8fd8-5f32-4cbb-ba1f-5848f0a35c48

**EASY** 

Max Score: 30 Points

### **Factorial with loop**

You are given a integer  ${\tt n}.$  Your task is to find the factorial of the given integer number  ${\tt n}.$ 

Note: Factorial of any given number n is represented as n! = n \* n-1 \* n-2 .....\* 1.

#### **Input Format**

The first line consists of a single integer denoting n.

#### **Output Format**

Output is a single line containing factorial of n.

#### Example 1

Input:

5

Output:

120

Explanation:

5! = 5\*4\*3\*2\*1 = 120.

#### Example 2

```
Input:
4

Output:
24

Explanation:
4! = 4*3*2*1 = 24.
```

#### **Constraints**

 $0 \le n \le 20$ 

**Topic Tags** 

Loops

# My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
    static long fac(int n)
    {
       long fac=1;
       if (n==0)
```

```
fac=1L;
     for(int i=1; i<=n; i++)
      fac*=i;
 return fac;
     public static void main (String[] args) throws
java.lang.Exception
          //your code here
  // Scanner s=new Scanner(System.in);
  // int n=s.nextInt();
  // long fac=1;
  // if (n==0)
  // fac=1;
  // for(int i=1; i<=n; i++)
  // {
  // fac*=i;
  //
  // System.out.print(fac);
Scanner s=new Scanner(System.in);
```

int n=s.nextInt();

```
System.out.print(fac(n));
}
```