https://course.acciojob.com/idle?question=f661b0e4-7bc4-469b-b148-8b77c9bca468

- EASY
- Max Score: 30 Points

Factorial Recursively

Given a number n, find its factorial using recursion.

Input Format

Input consists only of integer n.

Output Format

Print the factorial of the number.

Example 1

Input

```
5
```

Output

```
120
```

Explanation

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

Example 2

Input

```
10
```

Output

```
3628800
```

Explanation

1 * 2 * 3 * 4 * 5 * 6 * 7 * 8 * 9 * 10 = 3628800.

Constraints

0 <= n <= 18

Topic Tags

- Recursion
- Math

My code

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

public class Main
```

```
{
	static long fac(long n)
	{
		if(n==1)
			return 1L;
		return n*fac(n-1);
	}
	public static void main (String[] args) throws
java.lang.Exception
	{
		//your code here
		Scanner s=new Scanner(System.in);
		long n=s.nextLong();
		if(n==0)
		{
		    System.out.print("1");
			return;
		}
		System.out.print(fac(n));
	}
}
```