

<https://course.acciojob.com/idle?question=75a4dcae-e3fa-4ca9-a683-75383e56d452>

● EASY

● Max Score: 30 Points

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Factorial of a Number

Given a positive integer N , find its factorial.

Input Format

Input consists of a single integer N

Output Format

Print the factorial of the number.

Example 1

Input

5

Output

120

Explanation

We have $N = 5$.

So Factorial of 5 = $1 * 2 * 3 * 4 * 5 = 120$

Example 2

Input

15

Output

1307674368000

Explanation

We have $N = 15$.

So Factorial of 15 = $1 * 2 * 3 * 4 * 5 * 6 * 7 * 8 * 9 * 10 * 11 * 12 * 13 * 14 * 15 = 1307674368000$

Constraints

$1 \leq N \leq 18$

Topic Tags

- Math
- Loops
- Basics

My code

// in java

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

```
public class Main
```

```
{
    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;
        for(int i=1;i<=n;i++)
            fac*=i;
        System.out.print(fac);
    }
}
```