

<https://course.acciojob.com/idle?question=ca55c04e-e496-49ba-9640-0e58e9758bab>

● EASY

● Max Score: 30 Points

Calculate nCr

Given n and r , your task is to calculate nCr .

Here nCr is the total number of ways for selecting r elements out of n options are $nCr = \frac{n!}{(r! * (n-r)!)}$ where $n! = 1 * 2 * \dots * n$.

Input Format

Input consists of one line having two integers n followed by r .

Output Format

We have to calculate nCr using the formula as given in the question.

Example 1

Input

5 2

Output

10

Example 2

Input

3 1

Output

3

Constraints

$1 \leq n \leq r \leq 20$

Topic Tags

- Math

My code

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

public class Main
{
    static long fun(long n)
    {
        long m=1L;
        for(long i=1;i<=n;i++)
            m=m*i;
        return m;
    }

    public static void main (String[] args) throws
java.lang.Exception
```

```
{
    //your code here
    Scanner s=new Scanner(System.in);
    long n=s.nextLong();
    long r=s.nextLong();
    long t=fun(n-r);
    n=fun(n);
    r=fun(r);
    r=r*t;
    n=n/r;
    System.out.print(n);

}
}
```