

<https://course.acciojob.com/idle?question=7acf1850-2a2f-4618-8633-a8e88554da9d>

● EASY

● Max Score: 30 Points



## Calculate nPr

Given 2 numbers  $n$  and  $r$ . Your task is to calculate  $nPr = \frac{n!}{(n-r)!}$ .

### Input Format

The first line of Input contains a single integer  $n$ .

The second line of input contains a single integer  $r$ .

### Output Format

Return the value of  $nPr$ .

### Example 1

Input

5  
2

Output

20

Explanation

The value of 5! is 120 and 3! is 6,  $120/6 = 20$ .

## Example 2

Input

```
3
3
```

Output

```
6
```

Explanation

The value of 3! is 6, and 0! is 1.

## Constraints

$1 \leq n \leq 10$

$1 \leq r \leq n$

### Topic Tags

- **Math**

# My code

```
// in java
```

```
import java.util.*;
```

```
public class Main{
```

```
    public static void main(String[] args) {
```

```
Scanner scn = new Scanner(System.in);
int n = scn.nextInt();
int b = scn.nextInt();
int dn = getValueInBase(n, b);
System.out.println(dn);
}
```

```
public static int getValueInBase(int n, int r){
// Your code here
    int t=n-r;
    int ans=1;
    for(int i=t+1;i<=n;i++)
        ans=ans*i;
    return ans;
}
}
```