**Factorial**

[array](http://practice.geeksforgeeks.org/tag-page.php?tag=array&isCmp=0)[maths](http://practice.geeksforgeeks.org/tag-page.php?tag=maths&isCmp=0)

Calculate the factorial for a given number.

**Input:**  
The first line contains an integer 'T' denoting the total number of test cases. In each test cases, it contains an integer 'N'.

**Output:**  
In each seperate line output the answer to the problem.

**Constraints:**  
1<=T<=19  
0<=N<=18

**Example:**  
Input:  
1  
1

Output:  
1

\*\*For More Examples Use Expected Output\*\*

<http://practice.geeksforgeeks.org/problem-page.php?level=-1&pid=185>

#include <iostream>

#include <stdio.h>

#define ll long long int

using namespace std;

int main() {

int t;

scanf("%d", &t);

while(t--) {

int N;

scanf("%d", &N);

ll prod = 1;

for(int i = 2; i<=N; i++) {

prod \*= i;

}

printf("%lld\n", prod);

}

return 0;

}