



AST Competitive Programming Contest 2011 E.C.

## **Factorial**

Time Limit 1 second

## **Problem**

Alemu just learned how to calculate the factorial of a number using below. But he soon discovered that as the number increased finding the factorial was hard. Your task is to help by writing a recursive program to find the factorial of n.

$$n! = \begin{cases} 1 & if \ n = 0, \\ (n-1)! * n & if \ n > 0 \end{cases}$$

## Input

Each test case starts with a line containing t (2 < t < 50). Each next line contains integer n (1 < n < 20).

## **Output**

For each input record print factorial n.

Sample Input 1	Sample Output 1
3	6
3	120
5	362880
9	