Problem 2: Factorial!

Difficulty: Easy

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Problem Background

Factorials make numbers appear exciting! Represented by an exclamation point after an integer, a factorial of a number is equal to the product of that number and all positive integers less than it. For example, 3! is equal to 1 * 2 * 3 = 6.



Problem Description

Write a program that can calculate the factorial of a given integer. Be careful; factorials get very large, very fast.

Sample Input

The first line of your program's input, received from the standard input channel, will contain a positive integer representing the number of test cases. Each test case will include a single line containing a positive integer.

2 3

Sample Output

For each test case, your program must print the factorial of the given number.

6

24