# **Factorial**

Input file: standard input
Output file: standard output

Time limit: 2 seconds Memory limit: 64 megabytes

Given a number N. Print the **factorial** of number N.

#### Input

First line contains a number T ( $1 \le T \le 15$ ) number of test cases.

Next T lines will contain a number N  $(0 \le N \le 20)$ 

## Output

For each test case print a single line contains the **factorial** of N.

## Example

standard input	standard output
2	120
5	6
3	

#### Note

**Factorial**, in mathematics, the product of all positive integers less than or equal to a given positive integer and denoted by that integer and an exclamation point.

Thus, factorial seven is written 7!, meaning 1 \* 2 \* 3 \* 4 \* 5 \* 6 \* 7 = 5040.

Factorial zero is defined as equal to 1.

In first test case for N = 5, 5! = 1 \* 2 \* 3 \* 4 \* 5 = 120 so the answer is 120.

In Second test case for N = 3, 3! = 1 \* 2 \* 3 = 6 so the answer is 6.