Small Factorial Problem Code: **FLOW018**

Write a program to find the factorial value of any number entered by the user.

Input
The first line contains an integer **T**, total number of testcases. Then follow **T** lines, each line contains an integer **N**.

Output
Display the factorial of the given number **N** .

Constraints
- $1 \le T \le 1000$
- $0 \le N \le 20$

Example
Input

3

3

4

5

Output

6

24

120