

Small factorials

You are asked to calculate factorials of some small positive integers.

Input

An integer  $t$ ,  $1 \leq t \leq 100$ , denoting the number of testcases, followed by  $t$  lines, each containing a single integer  $n$ ,  $1 \leq n \leq 100$

Output

For each integer  $n$  given at input, display a line with the value of  $n!$

**Note:** For larger numbers, their factorial can overflow any available numeric data type in C.

Sample 1:

Input	
Output	
4 1 2 5 3	
	1 2 120 6