

# K12-Combinations

Given  $n$  find the value of  $((nC_1)^2 + 2*(nC_2)^2 + 3*(nC_3)^2 + 4*(nC_4)^2 + \dots + n*(nC_n)^2) \% \text{MOD}$ , where  $\text{MOD} = 10^9 + 7$ .

**Note:**  $nCr$  is the number of ways of choosing  $r$  items from  $n$  items.

## Input

The first line of input file contains  $T$  which denotes number of test cases. Each of the following line contains an integer  $n$ .  $T \leq 1000$  and  $n \leq 10^6$ .

## Output

The output must contain  $T$  lines each line corresponding to a testcase.

## Example

**Input:**

2  
1  
2

**Output:**

1  
6