

## VLTC AND ROMANCE

After the reopening of the institute, Jetha a “MNITian” wants to meet his girlfriend. He is at a certain floor and has asked his girlfriend to come on that floor. But she is at PMC with Akash. Jetha has to wait for a certain amount of time so he decides to do a certain amount of moves which involves:

- 1) Going to one floor below (A)
- 2) Going one floor up (B)
- 3) Scrolling Instagram till you are all caught up (C)

Jetha will perform exactly  $N$  moves and wants to remain on the same floor because he has asked his girlfriend to come on the same.

We can assume VLTC is infinite floored, means you do not need to take care of what if Jetha is in the basement can he still go down?

Your task is to find in how many ways order of operations Jetha can make and can meet his girlfriend.

Since these can be too many output modulo 1000000007.

Input format

- The first line contains an integer  $T$  denoting the number of test cases.
- The first line of each test case contains a single integer  $N$ .

Output format

For each test case, print a single line denoting the number of ways modulo 1000000007.

Constraints:

$$1 \leq T \leq 100$$

$$1 \leq N \leq 100000$$

Sum of  $N$  over all test cases will not exceed 100000.

**Sample:**

**Input:**

2  
1  
2

**Output:**

1  
3

**Explanation:**

In first case we can perform one move that is scroll.

In second case there are 3 ways:

- 1) one floor up,one floor down.
- 2) one floor down,one floor up.
- 3) Scroll,Scroll