# **Count Subsets**

You are given a set S =  $\{1, 2, 3, ..., n\}$ . Your task is simple. You have to calculate the number of ways of selecting non empty subsets A and B such that A is not a subset of B and B is not a subset of A. Since answer can be large output the result mod  $10^9 + 7$ .

#### Input

First line of input contains single integer t denoting number of test cases.

Next t lines contain a single integer n.

## Output

For each test case output answer to problem by taking mod with  $10^9 + 7$ .

#### Constraints

1 <= t <= 100000

1 <= n <= 1000000

## Example

```
SAMPLE INPUT:
2
4
8
SAMPLE OUTPUT:
110
52670
```