## Count Subsets

You are given a set $S=\{1,2,3, \ldots, n\}$. 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 $10^{\wedge} 9+7$.

## 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 $10^{\wedge} 9+7$.

## Constraints

$1<=\mathrm{t}<=100000$
$1<=\mathrm{n}<=1000000$

## Example

## SAMPLE INPUT:

2
4
8

SAMPLE OUTPUT:
110
52670

