

# Classic Sequence Sum

Find the value of sum of square of all the first N numbers in Fibonacci series.

## Input

First line of every input test file contains T denoting the number of test cases for the file, followed by T numbers N.

## Output

For every number N output the result( sum of square of first N fib, number) in the below described format.

Value can overflow the standard data type, output the result modulo  $1000000007 (10^9 + 7)$ .

## Constraints

$1 \leq T \leq 10000 (10^4)$

$1 \leq N \leq 1000000000000000000 (10^{18})$

## Example

### Input:

3  
1  
5  
10

### Output:

Case 1: 1  
Case 2: 40  
Case 3: 4895