

# Summing the N series

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You are given a sequence whose  $n^{\text{th}}$  term is

$$T_n = n^2 - (n - 1)^2$$

You have to evaluate the series

$$S_n = T_1 + T_2 + T_3 + \cdots + T_n$$

Find  $S_n \bmod (10^9 + 7)$ .

## Input Format

The first line of input contains  $T$ , the number of test cases.

Each test case consists of one line containing a single integer  $n$ .

## Output Format

For each test case, print the required answer in a line.

## Constraints

$$1 \leq T \leq 10$$

$$1 \leq n \leq 10^{16}$$

## Sample Input

```
2
2
1
```

## Sample Output

```
4
1
```

## Explanation

Case 1: We have  $4 = 1 + 3$

Case 2: We have  $1 = 1$