

Summing the N series

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You are given a sequence whose n^{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 .

Constraints

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

Output Format

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

Sample Input 0

```
2
2
1
```

Sample Output 0

```
4
1
```

Explanation 0

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

Case 2: We have $1 = 1$