

# Prana and The Series

Prana loves to find summation of any series. Today she has found one and now she is trying to find the sum of the first  $n$  terms.

The  $n^{\text{th}}$  term of the series is  $f(n)$ .

$$f(n) = 1, \text{ when } n=1$$

$$f(n) = ((n-1) * (8 * (n-2) * 2 + 20) + 4), \text{ when } n > 1$$

Suddenly her baby cried for some reason. So now she has to take care of her baby. Now she needs your help to find out the sum of the first  $n$  terms of the series i.e.  $f(1)+f(2)+\dots+f(n)$ .

## Input

The first line contains an integer  $T$  i.e. number of test cases. Next  $T$  lines will contain an integer  $n$ .

$$T \leq 10^5$$

$$1 \leq n \leq 10^9$$

## Output

Print the values corresponding to each test case. As the sum will be huge you have to print the result mod  $(10^9+7)$ .

## Sample

Input	Output
3	1
1	25
2	101
3	