## Cards

Maricruz have a lot of cards, she always uses her cards to build pyramids as shown in the following image:


A pyramid card of 3 levels. She always wonder how many cards does she need to make a pyramid card of $\mathbf{N}$ levels. Your task is to answer that question.

## Input

The first line of the input contains an integer $1<=\mathbf{T}<=1,000$. Each of the following $\mathbf{T}$ lines will have an integer $1<=\mathbf{N}<=1,000,000$.

## Output

For each case, output a single line consisting of the number of cards needed to build a pyramid card of level $\mathbf{N}$ modulo 1,000,007.

## Example

## Input Example

2
3
7

## Output Example

15
77

