

# Interesting Subset

You are given a set  $X = \{1, 2, 3, 4, \dots, 2n-1, 2n\}$  where  $n$  is an integer. You have to find the number of interesting subsets of this set  $X$ .

A subset of set  $X$  is interesting if there are at least two integers  $a$  and  $b$  such that  $b$  is a multiple of  $a$ , i.e. remainder of  $b$  divides by  $a$  is zero and  $a$  is the smallest number in the set.

## Input

The input file contains multiple test cases. The first line of the input is an integer  $T$  ( $\leq 30$ ) denoting the number of test cases. Each of the next  $T$  lines contains an integer ' $n$ ' where  $1 \leq n \leq 1000$ .

## Output

For each test case, you have to output as the format below:

Case  $X$ :  $Y$

Here  $X$  is the test case number and  $Y$  is the number of subsets. As the number  $Y$  can be very large, you need to output the number modulo 1000000007.

## Example

### Input:

```
3
1
2
3
```

### Output:

```
Case 1: 1
Case 2: 9
Case 3: 47
```