

Problem 3. Longest bitonic subsequence (2 points)

Timelimit: 1 second

Problem Statement

Longest bitonic subsequence problem is the problem to find a longest subsequence of a given sequence in which if it is first strictly increasing, then strictly decreasing.

Write a program that find number of longest bitonic subsequence.

(Be careful about range of number)

Input Statement

First line contains t which is the number of test cases.

First line of each test case contains n which is the size of sequence ($n \leq 1,000$).

And next line contain the input sequence.

Output Statement

For each test case, prints out *number of longest non-decreasing subsequence* mod 20170429.

Each test case should be separated by a line.

Input Example

```
4
5
1 2 3 4 5
5
1 1 1 1 1
4
1 5 2 6
6
1 3 2 6 5 7
```

Output Example

```
1
5
3
6
```