

## Problem B. Darkmoon Faire

Input file:            standard input  
Output file:           standard output  
Time limit:            4 seconds  
Memory limit:         512 megabytes

*–Ahead of You, Down the Path*  
*–A Majestic, Magical Faire!*  
*–Ignore the Darkened, Eerie Woods*  
*–Ignore the Eyes That Blink and Stare*  
*–Fun & Games & Wondrous Sights!*  
*–Music & Fireworks to Light Up the Night!*  
*–Do Not Stop! You're Nearly There!*  
*–Behold, My Friend: THE DARKMOON FAIRE!*

One day, you go to the Darkmoon Faire with your friends.

You begin to play a game called "Finding the Ridiculous Partitions"!

An array is "ridiculous if the maximum element of the array lies on an odd index, while the minimum element of the array lies on an even index.

You are given a sequence  $a$  of length  $n$ . It's guaranteed that all  $a_i$  are pairwise distinct.

You can partition the sequence into several (probably one) continuous intervals, such that the intervals don't intersect and that every position belongs to exactly one interval. For every interval, we can view it as a one-based array. A partition is "ridiculous if for each of the intervals, its corresponding array is ridiculous.

Please calculate the number of "ridiculous partitions" of the given sequence.

Since the answer can be very large, you only need to output the answer modulo 998244353.

### Input

The input consists of multiple test cases.

The first line contains an integer  $T$  ( $1 \leq T \leq 5$ ) denoting the number of test cases.

For each test case, the first line contains a single integer  $n$  ( $1 \leq n \leq 3 \times 10^5$ ).

The second line contains  $n$  integers  $a_i$  ( $1 \leq a_i \leq 10^9$ ), it's guaranteed that  $a_i \neq a_j$  for all  $i \neq j$ .

The sum of  $n$  over all test cases does not exceed  $10^6$ .

### Output

For each test case, output one line containing the answer modulo 998244353.

### Example

standard input	standard output
2	2
5	5
3 2 4 1 8	
10	
9 1 2 4 7 3 6 8 10 5	