

# Make Max

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:         1024 megabytes

You are given a sequence of  $n$  positive integers  $[a_1, \dots, a_n]$ . You can apply the following operation to the sequence:

- Select a subarray  $a[l \dots r]$  ( $1 \leq l < r \leq n$ ) where not all elements are identical (i.e., there exist two integers  $l \leq i < j \leq r$  such that  $a_i \neq a_j$ ), and then change every element in this subarray to  $\max_{l \leq i \leq r} a_i$ .

Determine the maximum number of such operations that can be performed.

## Input

Each test contains multiple test cases. The first line contains the number of test cases  $t$  ( $1 \leq t \leq 1000$ ). Description of the test cases follows.

The first line of each test case contains an integer  $n$  ( $1 \leq n \leq 2 \times 10^5$ ).

The second line of each test case contains  $n$  integers  $a_1, \dots, a_n$  ( $1 \leq a_i \leq 10^9$ ).

The sum of  $n$  over all test cases does not exceed  $4 \times 10^5$ .

## Output

For each test case, print the maximum number of operations that can be performed.

## Example

standard input	standard output
4	1
2	0
1 2	3
2	3
2 2	
7	
1 1 1 2 2 2 2	
3	
1 2 3	

## Note

In the first test case, an optimal sequence of operations is:

1. Select  $a[1 \dots 2]$  and apply the operation, so that  $a$  becomes  $[2, 2]$ .

In the second test case, no operation can be performed.

In the fourth test case, an optimal sequence of operations is:

1. Select  $a[1 \dots 2]$  and apply the operation, so that  $a$  becomes  $[2, 2, 3]$ .
2. Select  $a[2 \dots 3]$  and apply the operation, so that  $a$  becomes  $[2, 3, 3]$ .
3. Select  $a[1 \dots 3]$  and apply the operation, so that  $a$  becomes  $[3, 3, 3]$ .