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Nearest Smaller Values AZ101



? Ask Doubt

Time-Limit: 1 sec Score: 1.00/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100

Description

You are given an array of N integers. For each position, find the nearest position to its left having a smaller value. (1-based indexing)

Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains one integer N - the length of the array.

The second line of each test case contains N space-separated integers.

Output Format

For each test case, print N space-separated integers, for each position, the nearest position to its left having a smaller value. If no position to its left has a smaller value, print 0.

Constraints

$1 \leq T \leq 10^5$

$1 \leq N \leq 10^5$

$1 \leq A_i \leq 10^9$

It is guaranteed that the sum of N over all test cases does not exceed 10^6 .

Sample Input 1

Copy

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

Sample Output 1

Copy

```
0 1 0 3 3
```

C++14[GCC] ▾



Submit

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