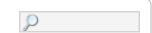
Problem - D - Codeforces 08/02/24, 2:07 PM





HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP



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**PROBLEMS** SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

# D. Find the Different Ones!

time limit per test: 5 seconds memory limit per test: 256 megabytes input: standard input output: standard output

You are given an array a of n integers, and q queries.

Each query is represented by two integers l and r ( $1 \le l \le r \le n$ ). Your task is to find, for each query, two indices i and j (or determine that they do not exist) such that:

- $l \leq i \leq r$ ;
- $l \leq j \leq r$ ;
- $a_i \neq a_i$ .

In other words, for each query, you need to find a pair of different elements among  $a_l, a_{l+1}, \ldots, a_r$ , or report that such a pair does not exist.

#### Input

The first line of the input contains a single integer t ( $1 \le t \le 10^4$ ) — the number of test cases. The descriptions of the test cases follow.

The first line of each test case contains a single integer n ( $2 \le n \le 2 \cdot 10^5$ ) — the length of the array a.

The second line of each test case contains n integers  $a_1, a_2, \ldots, a_n$   $(1 \le a_i \le 10^6)$  — the elements of the array a.

The third line of each test case contains a single integer q ( $1 \le q \le 2 \cdot 10^5$ ) — the number of queries.

The next q lines contain two integers each, l and r ( $1 \le l < r \le n$ ) — the boundaries of the query.

It is guaranteed that the sum of the values of n across all test cases does not exceed  $2 \cdot 10^5$ . Similarly, it is guaranteed that the sum of the values of q across all test cases does not exceed  $2 \cdot 10^5$ .

## Output

For each query, output two integers separated by space: i and j ( $l \le i, j \le r$ ), for which  $a_i \ne a_i$ . If such a pair does not exist, output i = -1 and j = -1.

You may separate the outputs for the test cases with empty lines. This is not a mandatory requirement.

## Example



## Codeforces Round 923 (Div. 3)

#### **Finished**

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Register for practice

#### → Virtual participation

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Start virtual contest

# → Problem tags binary search brute force data structures | dp | greedy two pointers

# → Contest materials

- Announcement (en)
- Tutorial

×

No tag edit access

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```
1 4
2 3
2 4
5 1 4 3 2 4
5
1 5
 2 43 43 5
 4 5
5
2 3 1 4 2
 1 2
 1 4
 1 5
2 4
2 5
3 5
4 5
                                                                                                                                       Сору
 output
 2 3
 -1 -1
1 3
 2 1
 -1 -1
 4 2
 4 6
 5 3
 1 2
1 2
 2 3
3 2
 1 3
 2 4
3 4
5 3
5 4
 1 2
1 2
4 2
1 3
2 3
3 2
5 4
5 4
```

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