

HOME TOP CATALOG CONTESTS GYM

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PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

# S. Permutation

PROBLEMSET GROUPS

RATING EDU API CALENDAR HELP

time limit per test: 2 seconds memory limit per test: 256 megabytes input: mex.in

Moustafa has a permutation A contains all numbers 1 to n.

and q queries each query with  $l_i$  and  $r_i$ .

for each query find the minimum positive value doesn't exist in the subarray  $A[l_i], A[l_{i+1}], \ldots, A[r_i]$ .

#### Input

The first line will contain only one integer T- the number of test cases.

Each test case will start with one line contain two integers n and q, (1  $\leq n, q \leq 10^5$ ).

Follows n numbers separated by a space representing the permutation A.

Then q lines follow each line contains  $l_i$  and  $r_i$  for the  $i^{th}$  query.

#### **Output**

For each query print the minimum positive value doesn't exist in the subarray.

# Example

input

Input	557
2	
6 6	
2 6 1 5 3 4	
1 6	
1 5	
1 3	
4 6	
5 5 3 3	
4 10	
4 2 1 3	
11	
1 2	
2 2	
1 3	
2 3 3 3	
1 4	
1 4	
2 4	
3 4	
4 4	
output	Сору
7	
4	
3	
1	
1	
1 2	
1	
1	
1	
3	
3	
<del>                                     </del>	
Ę	
2 5 4	
4	
<ul><li>5</li><li>4</li><li>2</li><li>1</li></ul>	

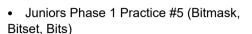
# <u>ICPC Assiut University Training -</u> <u>Juniors Phase 1 Sheets-2022</u>

### **Public**

# **Participant**



## → **Group Contests**



- Juniors Phase 1 Practice #4 ( Binary search , Two pointers )
- Juniors Phase 1 Practice #3 (STL 2)
- Juniors Phase 1 Practice #2 (STL 1)
- Juniors Phase 1 Practice #1 ( Prefix sum , Frequency Array )

# Juniors Phase 1 Practice #1 ( Prefix sum , Frequency Array )

### **Finished**

**Practice** 



# → Virtual participation

Сору

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



→ Last submissions		
Submission	Time	Verdict
<u>250148053</u>	Mar/08/2024 04:42	Accepted
<u>250147619</u>	Mar/08/2024 04:31	Accepted
247987673	Feb/23/2024 20:13	Accepted
<u>247742454</u>	Feb/22/2024 15:52	Time limit exceeded on test 2