

S. Permutation

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 the subarray $A[l_i], A[l_{i+1}], \dots, A[r_i]$.

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

inputCopy

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
1 1
1 2
2 2
1 3
2 3
3 3
1 4
2 4
3 4
4 4

outputCopy

7
4
3
1
1
2
1
1
1
3
3
2
5
4
2
1

ICPC Assiut University Training - Juniors Phase 1 Sheets-2022

Public

Participant

→ Group Contests

- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- 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

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

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Be careful: the problem requires input/output via file(s).

Submit

→ Last submissions

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