

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

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

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 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



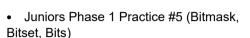
<u>ICPC Assiut University Training -</u> <u>Juniors Phase 1 Sheets-2022</u>

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

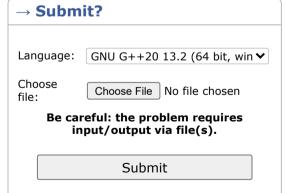
Practice



→ Virtual participation

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
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