ICPC Assiut University Community

Juniors Phase 1 Training , Do Your Best



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

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

B. binary search STL

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

you have an array of length n and q query, each query is one of these 3 types :

- lower_bound x: mean find first element greater than or equal x, if not found print -1.
- $upper_bound\ x$: mean find first element greater than x, if not found print -1.
- $binary_search \ x$: mean find x in the array or not.if x in array print "found" otherwise print "not found".

Input

The first line of input contains two integers $n, q \ (1 \le N, q \le 10^5)$. The second line contains n numbers $a_i \ (1 \le a_i \le 10^9)$. The next q lines contains the queries. $(1 \le x \le 10^9)$.

Output

print the answer for each query in one line.

Example



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

Public

Participant



→ Group Contests



- Standard #4 (Binary search , two pointers)
- Standard #3 (set , sorting, compare function , map)
- Standard #2 (binary search, stack, queue, deque, priority queue)
- Standard #1 (Frequency, prefix sum, vector, pair, struct)

Standard #2 (binary search, stack, queue, deque, priority queue)

Finished

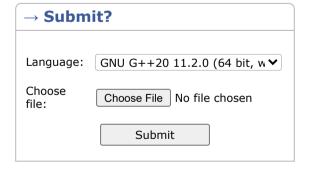
Practice



→ 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
226497759	Oct/03/2023 23:29	Accepted
226484608	Oct/03/2023 21:02	Accepted