

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

J. Next Element

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Given Array a of n integers and q queries.
in each query given an integer i ($1 \leq i \leq n$),
You must find the minimum integer j such that $(i < j \leq n)$ and $a_i < a_j$.

Input

The first line contains one integer n ($1 \leq n \leq 10^6$).
The second line contains n numbers a_i ($1 \leq a_i \leq 10^9$).
The third line contains one integer q ($1 \leq q \leq 10^6$), number of queries.
the next q lines contains one integer i ($1 \leq i \leq n$).

Output

For each query print the minimum value of j or -1 if not found.

Example

input	Copy
5 46 82 28 62 92 5 1 5 3 4 2	
output	Copy
2 -1 4 5 5	

ICPC Assiut University Training - Standard - Juniors Phase 1

Public

Participant

→ Group Contests

- Standard #5 (Bits , bit-masking)
- 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

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
226561681	Oct/04/2023 12:10	Accepted
226561433	Oct/04/2023 12:08	Accepted
226561352	Oct/04/2023 12:08	Accepted
226559923	Oct/04/2023 11:56	Compilation error
226559334	Oct/04/2023 11:51	Accepted
226558985	Oct/04/2023 11:49	Accepted