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

A. set

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

you have an empty set and q query, each query is one of these 4 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.
- find x: mean find x in the set or not.if x in set print "found" otherwise print "not found".
- insert x: mean add x to the set.

Input

The first line of input contains one integer q ($1 \le q \le 10^5$). 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 #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 #3 (set, sorting, compare function, map)

Finished

Practice

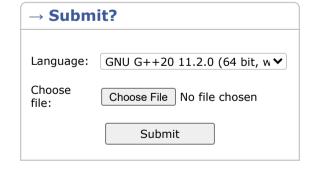


→ Virtual participation



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
<u>226566656</u>	Oct/04/2023 12:47	Accepted
226564754	Oct/04/2023 12:39	Wrong answer on test 3
226564614	Oct/04/2023 12:37	Time limit exceeded on test 2
226564334	Oct/04/2023 12:35	Wrong answer on test 1
226564254	Oct/04/2023 12:34	Time limit exceeded on test 2
<u>226564196</u>	Oct/04/2023 12:34	Time limit exceeded on test 2