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

D. The first missing number

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

You have an array A of N integers.

You have to find the first integer x ($-M \le x \le M$) not appears in A.

Input

The first line of the input contains two integers N, M ($1 \le M \le 10^5$),($1 \le N < 2 * M$).

The next line contains N integers a_i ($-M \le a_i \le M$).

Output

The only line of the output contains an integer x the answer to the problem.

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)

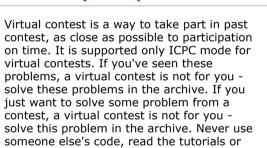
Standard #1 (Frequency, prefix sum, vector, pair, struct)

Finished

Practice



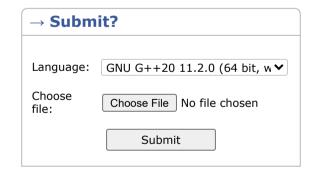
→ Virtual participation



Start virtual contest

communicate with other person during a

virtual contest.



→ Last submissions		
Submission	Time	Verdict
226288294	Oct/02/2023 14:57	Accepted
226174929	Oct/01/2023 17:23	Accepted
226173438	Oct/01/2023 17:12	Runtime error on test 2
226173370	Oct/01/2023 17:11	Wrong answer on test 1