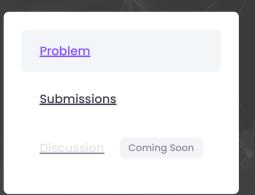




Atacan plays Hide And Seek

Contest List • Algorithm Competition Summer Camp 2023 Foundation Upsolving Contest • Problem List • Atacan plays Hide And Seek • Problem



Atacan and his M friends are playing hide and seek. In this game, Atacan is the seeker. And he wants to find all of his friends. But he doesn't want to go away from his place. He knows that his friends will always hide behind the wall that is equal in height to them. There are N walls which they can hide behind them.

Your task is to help Atacan.

Input Format

The first line contains two integers N and M. The second line contains N integers separated by spaces, denoting heights of walls (in non-decreasing order). The third line contains M integers separated by spaces, denoting heights of Atacan's friends.

Output Format

The output should contain M lines. Each line should be -1 or j. For every i_{th} friend,

- ullet if Atacan knows i's exact location, print j- the index of the wall which his friend is hiding.
- ullet if Atacan doesn't know the exact location of i or friend i can't hide, print -1.

Constraints

```
1 \le N, M \le 10^5
```

 $1 \le every\ height \le 10^9$

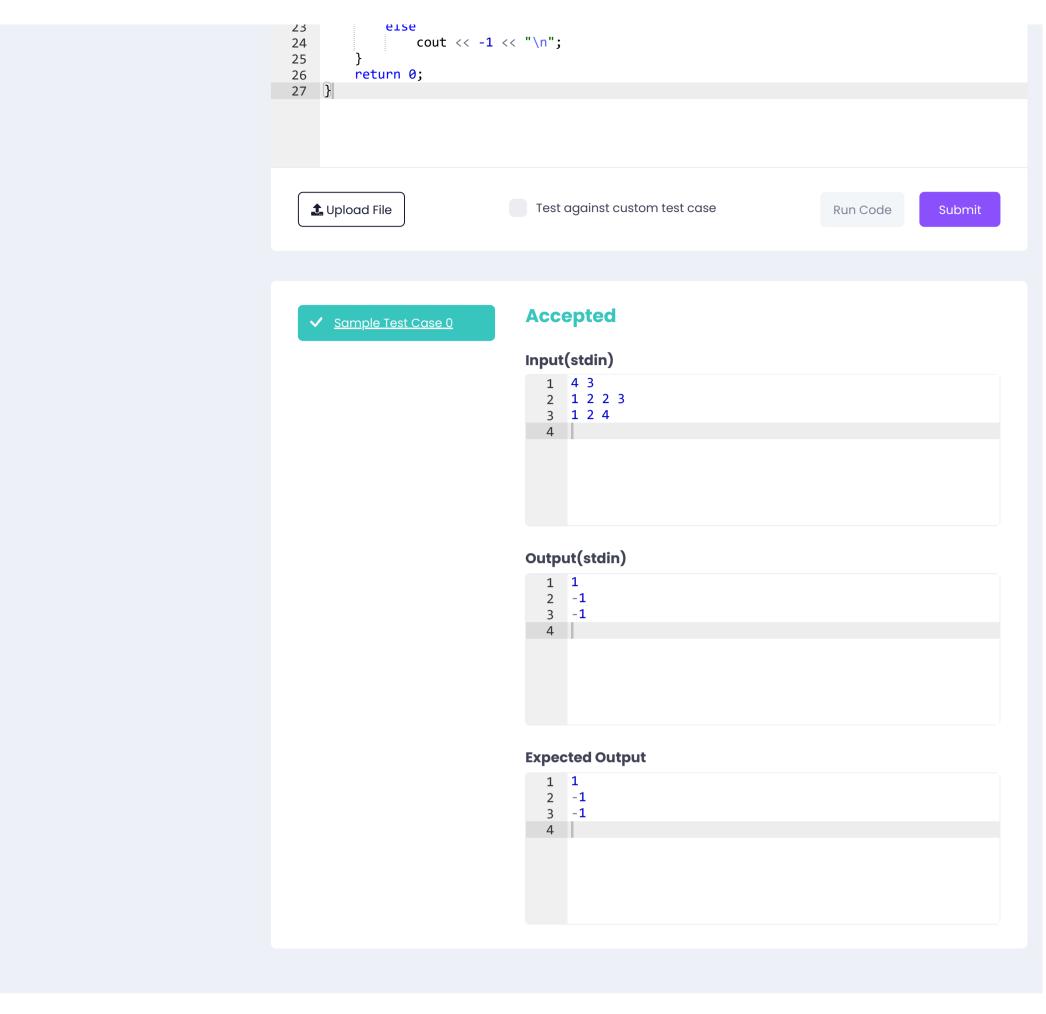
Sample Input 1 🔲

```
4 3
1 2 2 3
1 2 4
```

Sample Output 1 🖵

```
1
-1
-1
```

```
C++ (GCC 9.2.0)
                                                            Memory Limit (kB): 256000 Time Limit (s):1
                              Bright 💙
   #include <bits/stdc++.h>
 2
 3 using namespace std;
4 - int main(){
        int N, M;
 5
         cin >> N >> M;
 6
         vector<int> walls(N);
 7
         vector<int> friends(M);
 8
         unordered_map<int, int> mp;
 9
         unordered_map<int, int> index;
10
         for(int i = 0; i < N; i++){
11 -
             cin >> walls[i];
12
13
             index[walls[i]] = i;
14
             mp[walls[i]]++;
15
16
         for(int i = 0; i < M; i++){</pre>
17 -
18
            cin >> friends[i];
19
20 -
         for(int i = 0; i < M; i++){</pre>
21
             if(mp[friends[i]] == 1)
              cout << index[friends[i]] + 1<< "\n";</pre>
22
```



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