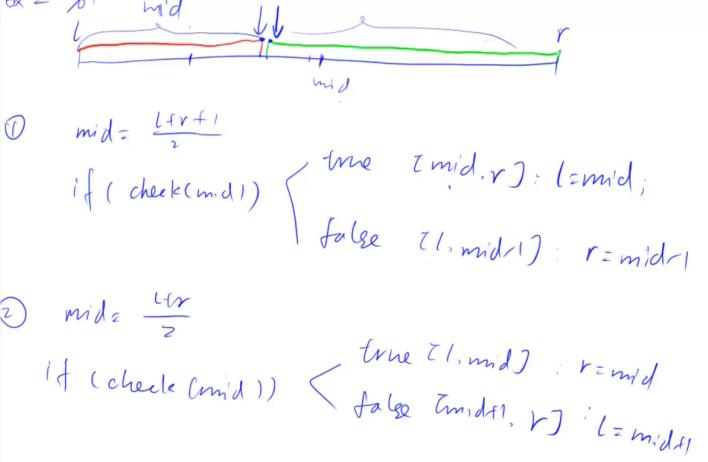
```
Given an array with n length, and g queries
For each query, return the start position and end position of the element k. (index start from 0)
If the element doesn't exist in the array, return -1 -1
Input
n, q
n integers
query k
OUtput
start end
Range
1≤n≤100000
1≤q≤10000
1≤k≤10000
Input sample:
6 3
1 2 2 3 3 4
Output sample:
3 4
6X =
```



https://www.acwing.com/problem/content/791/

employe to rember

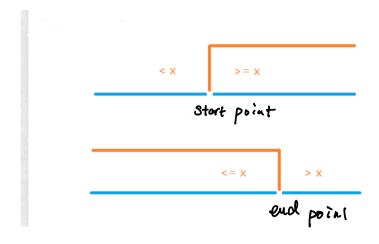
```
1 // When [l, r] divided in [l, mid] and [mid + 1, r]
   int bsearch_1(int l, int r)
 3 - {
        while (1 < r)
 4
 5 =
 6
            int mid = 1 + r \gg 1;
                                         // check()判断mid是否满足性质
 7
            if (check(mid)) r = mid;
            else l = mid + 1;
 8
 9
10
        return 1;
11
12
    // when [1, r] divided [1, mid - 1] and [mid, r]
13
   int bsearch_2(int 1, int r)
15 * {
        while (1 < r)
16
17 -
18
            int mid = 1 + r + 1 >> 1;
19
            if (check(mid)) l = mid;
20
            else r = mid - 1;
21
22
        return 1;
                                                                                                     :actus/)
23
   }
24
```

Search Range Search light point template 1 Template 2

Template 1

Template 2

```
while (l < r)
{
        int mid = l + r + 1 >> 1;
        if (q[mid] <= x) l = mid;
        else r = mid - 1;
}</pre>
```



```
#include <iostream>
using namespace std;
const int N = 100010;
int n, m;
int q[N];
int main()
{
    scanf("%d%d", &n, &m);
    for (int i = 0; i < n; i ++ ) scanf("%d", &q[i]);</pre>
    while (m -- )
        int x;
        scanf("%d", &x);
        int l = 0, r = n - 1;
        while (l < r)
        {
             int mid = l + r >> 1;
             if (q[mid] >= x) r = mid;
             else l = mid(+)1;
        }
        if (q[l] != x) cout << "-1 -1" << endl;</pre>
        else
        {
             cout << l << ' ';
             int l = 0, r = n - 1;
             while (l < r)
                 int mid = l + r + 1 >> 1;
                 if (q[mid] <= x) l = mid;
else r = mid - 1;</pre>
             }
             cout << l << endl;</pre>
        }
    }
    return 0;
```