https://course.acciojob.com/idle?question=b019eca3-ae3b-4e72-aa2e-f8078b06240e

- EASY
- Max Score: 30 Points
-

First and Last Position of an Element In Sorted Array

You have been given a sorted array/list `ARR` consisting of `N` elements. You are also given an integer `K`.

Now, your task is to find the first and last occurrence of `K` in `ARR`.

Note

1. **If `K` is not present in the array, then the first and the last occurrence will be `-1`.**
2. **`ARR` may contain duplicate elements.**

For example, if ARR = [0, 1, 1, 5] and K = 1, then the first and last occurrence of 1 will be 1 (0 - indexed) and 2.

Input Format

The first line contains two single-space separated integers `N` and `K`, respectively.

The second line contains `N` single space-separated integers denoting the elements of the array/list `ARR`.

Output Format

Print two single-space separated integers denoting the first and the last occurrence of `K` in `ARR`, respectively.

Example 1

Input

```
6 3
0 5 5 6 6 6
```

Output

```
-1 -1
```

Explanation

3 is not present in the array. Hence the first and last occurrence of 3 is -1 and -1.

Example 2

Input

```
8 2
0 0 1 1 2 2 2 2
```

Output

```
4 7
```

Explanation

The first occurrence of 2 in at index 4 and last occurrence is at index 7.

Constraints

1 <= N <= 100000

0 <= K <= 10^5

0 <= ARR[i] <=10^5

Topic Tags

- **Binary Search**

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
        public static void main (String[] args) throws
java.lang.Exception
        {
                //your code here
         Scanner s=new Scanner(System.in);
       int n=s.nextInt();
        int k=s.nextInt();
       int arr[]=new int[n];
            for(int i=0;i<n;i++)
                arr[i]=s.nextInt();
       int f1=0,f2=0;
         for(int i=0;i<n;i++)
           if(arr[i]==k){System.out.print(i+" "); f1=1;break;}
       if(f1==0)System.out.print("-1 ");
        for(int i=n;i>0;i--)
                if(arr[i-1]==k){System.out.print(i-1);f2=1; break;}
 if(f2==0)System.out.print("-1");
        }
}
```