https://course.acciojob.com/idle?question=1f8e91a5-e54f-488c-8706 -aaf17b2ceb3d

- EASY
- Max Score: 30 Points
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Binary Search

Given an sorted integer array of size n which contains unique elements, find the index (0-based) of the given key.

If the key is not present then return -1.

Input Format

First line contains two spaced integers the array size ${\tt n}$ and ${\tt key}$

Next line contains n spaced integers.

Output Format

Return the index of the key in the array in the given function or return -1 if it's not present in the array.

Example 1

```
Input
```

7 730 43 210 723 730 832 838 997

Output

3

Explanation

According to 0 based indexing the key 730 is at index 3.

Example 2

Input

10 1 24 50 62 74 87 434 477 625 783 940

Output

-1

Explanation

key 1 is not present in the array so we return -1.

Constraints

1 <= n <= 10^5

1 <= key <= 10^9

1 <= arr[i] <= 10^9

Topic Tags

Binary Search

My code

```
// in ja∨a
import java.util.*;
public class Main {
   public static int findIndex(int key, int[] arr) {
     //Write code here
int n=arr.length;
            int i=0, j=n-1;
            while(i<=j)
                  int mid=(i+j)/2;
                        if(arr[mid]==key)
                              return mid;
                        if(arr[mid]>key)
                             j=mid-1;
                        else i=mid+1;
                  }
            return -1;
   }
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
     int n, key;
      n = sc.nextInt();
      key = sc.nextInt();
      int[] arr = new int[n];
     for (int i = 0; i < n; i++)
```

```
arr[i] = sc.nextInt();
    System.out.println(findIndex(key, arr));
    sc.close();
}
```