## https://course.acciojob.com/idle?question=a2efabc9-bc03-4d63-b63a-f66bf457cc52

EASY

Max Score: 30 Points

### Find position of an element

Find position of an element in a sorted array in O(logn) time.

#### **Input Format**

Input consists of three lines.

First line contains the size of the array n

Second line contains the array space separated of size n

third line contains the number whose address is to be found

#### **Output Format**

Return the index of the key. If the key is not present, return -1.

#### **Example 1**

```
Input
6
3 5 7 9 10 90
10

Output
```

Explanation

10 present on the index 4 of the array given.

#### Example 2

```
Input

11
3 5 7 9 10 90 100 130 140 160 170
106

Output

-1

Explanation

-1 is returned because 106 doesn't exist in the array.
```

#### **Constraints**

```
1 <= n <= 10 ^ 4
```

#### **Topic Tags**

Binary Search

# My code

```
// in java import java.io.*; import java.util.*; class Accio {
```

```
static int findPos(int arr[],int key){
            int l=0,r=(arr.length)-1;
         while(I<=r)
                       {
                              int mid=(I+r)/2;
                              if(key==arr[mid])
                                    return mid;
                              if(key<arr[mid])</pre>
                                    r=mid-1;
                                    else l=mid+1;
           return -1;
}
public class Main {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      int n, m;
      n = sc.nextInt();
      int arr[] = new int[n];
     for(int i=0;i<n;i++)
         arr[i] = sc.nextInt();
      m = sc.nextInt();
      Accio Obj = new Accio();
      int result = Obj.findPos(arr, m);
      System.out.print(result);
}
```