



Online Java Compiler IDE

For Multiple Files, Custom Library and File Read/Write, use our new - [Advanced Java IDE](#)

```
1 // Java program to find an element
2 // in an almost sorted array
3 import java.util.*;
4 public class MyClass {
5     public static void main(String args[]) {
6         Scanner sc=new Scanner(System.in);
7         int n=sc.nextInt();
8         int key=sc.nextInt();
9         int arr[]=new int[n];
10        for(int i=0;i<n;i++)
11            arr[i]=sc.nextInt();
12        int low=0,high=arr.length-1;
13        int temp=binarySearch(arr,low,high,key);
14        if(temp==-1)
15            System.out.println("Element NOT found !!!!");
16        else
17            System.out.println("Element found at index:"+temp);
18    }
19
20    static int binarySearch(int arr[],int low,int high,int key)
21    {
22        while(low<=high)
23        {
24            int mid=low+(high-low)/2;
25            if(arr[mid]==key)
26            {
27                return mid;
28            }
29            if(mid>low && arr[mid-1]==key) // to make sure that whether mid is not crossed
30            {
31                return mid-1; // searching at i-1th position
32            }
33            if(mid<high && arr[mid+1]==key) // to make sure that whether mid is not crossed
34            {
35                return mid+1; // searching at i+1th position
36            }
37            if(arr[mid]>key) //
38                return binarySearch(arr, low,mid-2,key); // searching to the left subarray "i
39            else
40                return binarySearch(arr, mid+2,high,key); // searching to the left subarray "i
41        }
42        return -1;
43    }
44 }
```

Execute Mode, Version, Inputs & Arguments

CommandLine Arguments

Stdin Inputs

5 40
3 2 10 4 40


Result

CPU Time: 0.46 sec(s), Memory: 34992 kilobyte(s)

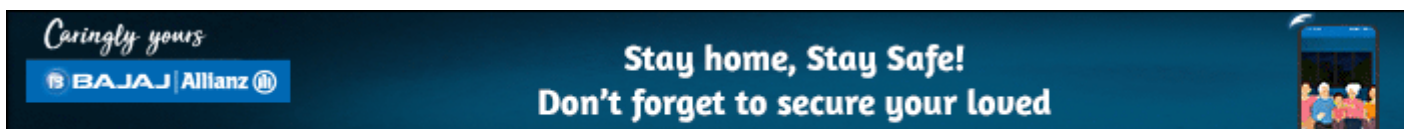
compiled and executed in 1.266 sec(s)

Element found at index:4

Note:

1. For file operations - upload files using upload button . Files will be upload to /uploads folder. You can read those files in program from /uploads folder. To write a file from your program, write files to '/myfiles' folder. Please note the uploaded files stored in the server only for the current session.
2. For detailed documentation check - [Our Documentation](#), or check our [Youtube channel](#).

Thanks for using our
Online Java Compiler IDE
 to execute your program



Know Your JDoodle

- JDoodle Supports 72 Languages and 2 DBs. [Click here](#) to see all.
- Fullscreen - side-by-side code and output is available. click the "⌕" icon near execute button to switch.
- Dark Theme available. Click on "☰" icon near execute button and select dark theme.
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