

<https://course.acciojob.com/idle?question=2314af51-b021-4867-99c2-20c2833e3a55>

● EASY

● Max Score: 30 Points

## Smaller Or Equal Elements

Given an sorted array  $A$  of size  $N$ . Find number of elements which are less than or equal to  $B$ .

NOTE: Expected Time Complexity  $O(\log N)$

Your task is to complete the function `smallerEqual` which receives the input array and  $B$  as parameters and returns the number of elements which are less than or equal to  $B$ .

### Input Format

The first line given is an integer  $N$ , denoting the size of array  $A$ .

The second line given is an integer array  $A$  of size  $N$ .

The third line given is an integer  $B$ .

### Output Format

Print an integer denoting the number of elements which are less than or equal to  $B$ .

### Example 1

Input

```
5
1 3 4 4 6
4
```

Output

4

Explanation: Elements (1, 3, 4, 4) are less than or equal to 4.

Input

```
4
1 2 5 5
3
```

Output

```
2
```

Explanation: Elements (1, 2) are less than or equal to 3.

## Constraints

$1 \leq N \leq 10^6$

$1 \leq A[i], B \leq 10^9$

### Topic Tags

- Binary Search
- Arrays

# My code

// in java

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

```
public class Main
```

```

{
    static int sertchposition(int arr[],int k)
    {
        int lp=0;
        int rp=arr.length-1;
        int mid=0;

        while(lp<=rp)
        {
            mid=(lp+rp)/2;
            int t=arr[mid];
            if(t>k)
                rp=mid-1;
            else lp=lp+1;
        }
        return lp;
    }
    public static void main (String[] args) throws java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int arr[]=new int[n];
        for(int i=0;i<n;i++)
            arr[i]=s.nextInt();
        int b=s.nextInt();
        System.out.print(sertchposition(arr,b) );

    }
}

```