

<https://course.acciojob.com/idle?question=bff80545-9861-4ac9-9c16-e4729299bd09>

• EASY

• Max Score: 30 Points



Sorted Insert Position

Given a sorted array A and a target value B , return the index if the target is found. If not, print the index where it would be if it were inserted in order.

You may assume no duplicates in the array.

Input Format

Input consists of three lines.

The first line contains integer n

The second line contains n space-separated integers, each a value of `arr[i]`.

The third line contains integer k

Output Format

Print the index where the element is present. If it's not present, print the index it would be inserted into the sorted array.

Example 1

Input

4

1 3 5 6

5

Output

2

Explanation

5 is found at index 2

Example 2

Input

4

1 3 5 6

2

Output

1

Explanation

2 will be inserted at index 1.

Constraints

$1 \leq N \leq 100000$

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

$1 \leq B \leq 10^9$

Topic Tags

- Binary Search
- Arrays

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 arr[]=new int[n];
```

```
for(int i=0;i<n;i++)
arr[i]=s.nextInt();
    int m=s.nextInt();
int l=0;
while( (l<n)&&(arr[l]<m ))
{
    l=l+1;
}
System.out.print(l);

}
}
```