

**PRACTICE** 

**LEADERBOARD** IOBS

Q Search





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# Count subarrays with all elements greater than K

locked

**Problem** 

**Submissions** 

Leaderboard

Given an array of N integers and a number K, the task is to find the number of subarrays such that all elements are greater than K in it.

#### Examples:

Input: N= 8, a[] = {3, 4, 5, 6, 7, 2, 10, 11}, K = 5 Output: 6 The possible subarrays are {6}, {7}, {6, 7}, {10}, {11} and {10, 11}.

Input:N=9, a[] = {8, 25, 10, 19, 19, 18, 20, 11, 18}, **K** = 13 Output: 12

#### **Input Format**

- N as size of array
- X[i] as array values

• K

#### Constraints

- 1 <= N <= 100
- $1 \le x[i] \le 10^3$
- $1 \le K \le 10^3$

# **Output Format**

No of valid subarrays.

## Sample Input 0

5 1 2 3 4 5 3

## Sample Output 0

3

# Sample Input 1

24 1 2 3 4 5 6 7 8 9 9 8 7 6 5 4 3 2 1 1 2 3 4 3 5 6

## Sample Output 1

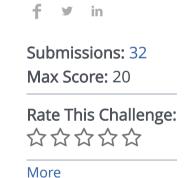
21

## Sample Input 2

```
8
3 4 5 6 7 2 10 11
3
```

#### Sample Output 2

13



```
7
   int f(int a[],int n,int k)
9 ▼{
10
        int c=0, sum=0;
        for(int i=0;i<n;i++)</pre>
11
12 ▼
13 ▼
             if(a[i]>k)
14 ▼
15
                 c++;
16
             else
17
18 ▼
19
                 sum+=c*(c+1)/2;
20
                 c=0;
21
22
        if(c) sum+=c*(c+1)/2;
23
24
25
        return sum;
26
27 vint main() {
28
         int n;
29
        cin>>n;
        int a[n];
30 ▼
31
32
        for(int i=0;i<n;i++)</pre>
33 ▼
             cin>>a[i];
        int k;
34
        cin>>k;
35
36
37
        cout<<f(a,n,k)<<"\n";
38
        return 0;
39
40
```

		Line: 1 Col: 1
<u>↑ Upload Code as File</u> Test against custom input	Run Code	Submit Code

Testcase 0 🗸	Testcase 1 🗸	Testcase 2 🗸		
		ed the sample t un your code agair	est case. It all the test cases.	
Input (stdin)				
5 1 2 3 4 5 3				
Your Output (st	dout)			
3				
Expected Outp	ut			
3				

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