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Smallest Window Array Sorting(p38)

Problem

Submissions

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Given an integer array **a** of size **N**, find the smallest window in the array which will make the entire array sorted.

For example -

Input: $a = \{1, 2, 3, 7, 5, 6, 4, 8\}$ Output: 3 6 Explanation: Sort the array from index 3 to 6. (0-based indexing)

Input Format

First line contains an integer **N**, denoting the size of the array

Next line contains **N** space-separated integers of **a**

Constraints

$$1 \leq N \leq 10^5$$

$$-10^9 \leq a_i \leq 10^9$$

Output Format

1. It should print the smallest window in the array sorting which will make the entire array sorted

Sample Input 0

```
8
1 3 2 7 5 6 4 8
```

Sample Output 0

```
1 6
```

Sample Input 1

```
9
0 1 15 25 6 7 30 40 50
```

Sample Output 1

```
2 5
```





Contest ends in an hour

Submissions: 10

Max Score: 20

Difficulty: Medium

Rate This Challenge:

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C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 #include<bits/stdc++.h>
7 using namespace std;
8 void f(int a[],int n)
9 {
10     int left=-1,right=-1;
11     int max=INT_MIN;
12     for(int i=0;i<n;i++)
13     {
14         if(max<a[i]) max=a[i];
15         if(a[i]<max) right=i;
16     }
17     int min=INT_MAX;
18     for(int i=n-1;i>=0;i--)
19     {
20         if(min>a[i]) min=a[i];
21         if(a[i]>min) left=i;
22     }
23     cout<<left <<" "<<right<<"\n";
24 }
25
26 int main() {
27     int n;
```

```
28     cin>>n;
29     int a[n];
30     for(int i=0;i<n;i++)
31         cin>>a[i];
32     f(a,n);
33     return 0;
34 }
35
```

Line: 1 Col: 1

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

Testcase 0 ✓

Testcase 1 ✓

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

```
8
1 3 2 7 5 6 4 8
```

Your Output (stdout)

```
1 6
```

Expected Output

```
1 6
```

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