https://course.acciojob.com/idle?question=3dcb9b48-c49e-418c-a0d 3-8d5fdc68c799

EASY

Max Score: 30 Points

•

•

•

Bubble Sort Problem

Consider the following version of Bubble Sort:

```
for (int i = 0; i < n; i++) {
    for (int j = 0; j < n - 1; j++) {
        // Swap adjacent elements if they are in decreasing order
        if (a[j] > a[j + 1]) {
            swap(a[j], a[j + 1]);
        }
    }
}
```

Print three values in separate lines:

- 1. Number of swaps it took to sort the array using the above algorithm.
- 2. First element in the array after sorting the array.
- 3. Last element in the array after sorting the array.

Input Format

The first line contains an integer, n, the size of the array a.

The second line contains n space-separated integers representing array a .

Output Format

Print the required three values.

Example 1

Input

3

6 4 1

Output

3

1

6

Explanation

[6,4,1]

swap	a
0	[6,4,1]
1	[4,6,1]
2	[4,1,6]
3	[1,4,6]

The steps of the bubble sort are shown above. It took 3 swaps to sort the array.

Example 2

Input

3

1 2 3

Output

```
0
1
```

Explanation

Array is sorted in 0 swaps.

First Element: 1

Last Element: 3

Constraints

```
2 <= n <= 600
```

1 <= a[i] <= 2*10^6

Topic Tags

- Loops
- Sorting

My code

```
// in java
import java.io.*;
import java.util.*;
public class Main {
   public static void main(String args[]) {
      // 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++)</pre>
```