**Day 20: Sorting**

**Task**  
Given an array, a, of size n distinct elements, sort the array in *ascending* order using the *Bubble Sort* algorithm above. Once sorted, print the following 3 lines:

1. Array is sorted in numSwaps swaps.  
   where numSwaps is the number of swaps that took place.
2. First Element: firstElement  
   where firstElement is the *first* element in the sorted array.
3. Last Element: lastElement  
   where lastElement is the *last* element in the sorted array.

**Hint:** To complete this challenge, you will need to add a variable that keeps a running tally of *all* swaps that occur during execution.

**Input Format**

The first line contains an integer, n, denoting the number of elements in array a.  
The second line contains n space-separated integers describing the respective values of a0, a1,…an-1 .

**Constraints**

* 2 < n < 600
* 0 < i < n

**Output Format**

Print the following three lines of output:

1. Array is sorted in numSwaps swaps.  
   where numSwaps is the number of swaps that took place.
2. First Element: firstElement  
   where firstElement is the *first* element in the sorted array.
3. Last Element: lastElement  
   where lastElement is the *last* element in the sorted array.

**Sample Input 0**

3

1 2 3

**Sample Output 0**

Array is sorted in 0 swaps.

First Element: 1

Last Element: 3

**Explanation 0**

The array is already sorted, so 0 swaps take place and we print the necessary 3 lines of output shown above.

**Sample Input 1**

3

3 2 1

**Sample Output 1**

Array is sorted in 3 swaps.

First Element: 1

Last Element: 3