**Almost Sorted**

Johnny is sorting a list of numbers, but he has noticed that some numbers in the list are already in it sorted position! Do you think you can find the range of numbers that still need to be sorted?

**Input:** The first line of input contains **N**, the number of elements. The second line contains **N** space-separated integers.

**Output:** The range that needs to be sorted with the format shown below. **Note**: it uses 0-based indexing.

**Example Input:**

7

2 6 4 8 10 9 15

**Example Output:**

[1, 5]

**Explanation:** In index 0 and 6, they are already in the correct spot, so you only need to sort from index 1 to index 5.