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Problem No. 7

Problem Statement :

Find whether an array is sorted or not, and the sorting order.

Solution Approach:

Traverse the array and check if the next elements in the array is greater than the previous element.If it is greater then the array is not sorted hence return false

Structured Pseudocode :

Check\_sorted(arr)

1.take the array to be arr

2. for i from 0 to size of arr-2

3. if(arr[i]>arr[i+1])

4. return false

5.return true

Results:

We obtain a Boolean value as the result of the above function

Discussion:

The traversal is of linear time complexity .

Separate files containing commented source code

The file has been attached.