

## Problem Set 3 Exercise #03: Is Array Sorted?

**Reference:** Week 7 Lecture notes

**Learning objective:** One-dimensional array

**Estimated completion time:** 15 minutes

### Problem statement:

Write a program **sorted.c** that contains a function

```
int is_sorted(int arr[], int size)
```

This function returns 1 if array **arr** is sorted in non-decreasing order; or returns 0 otherwise. The second parameter **size** is the number of elements in array **arr**. You may assume that  $1 \leq \text{size} \leq 9$ .

### Sample run #1:

```
Enter the number of elements: 4
Enter 4 elements: 1 -2 8 6
Given array is not sorted
```

### Sample run #2:

```
Enter the number of elements: 5
Enter 5 elements: 4 6 7 7 9
Given array is sorted
```