Algorithms and Analysis

Sorting in Linear Time – participation

Objectives

 Practice on the sorting algorithms that surpass nlgn limit for comparison based algorithms

- 1. Write a program that implements the Counting and Bucket sorting algorithms.
- 2. You program should use a random number generator to randomly generate 15 random real numbers in the interval of [0, 1) for Bucket Sort.
- 3. You program should use a random number generator to randomly generate 15 random integers in the interval of [0, 100] for Counting Sort
- Display the numbers before and after the sorting process for both Bucket and Counting sorts.
- 5. Remember the submission to D2L for credits.