CSCI5557/CSCI2234 DATA STRUCTURES AND ALGORITHMS

Assignment#1

Due September 30, 2025

1. Create an array that consists of 20 numbers in some random order. Use the BUBBLE SORT algorithm to sort the 20 numbers in descending order. Write a JAVA program to implement the BUBBLE SORT algorithm.

2. Create an array that consists of 20 numbers in some random order. Use the MERGE SORT algorithm to sort the 20 numbers in descending order. Write a JAVA program to implement the MERGE SORT algorithm.

Deliverables:

a) Print out of the JAVA source code typed on Eclipse IDE.

b) Print screen of the output on the console of Eclipse.