COSC 600 Optional Project 2

Due: April 21 2015

In this project you are asked to implement the following four sorting algorithms: Insertion Sort, Quick Sort, Merge Sort, and Heap sort. To test your program, generate a file of 20,000 random numbers, and then use the System.currentTimeMillis() method to measure the execution time of each algorithm implemented in Java.

Remarks:

You need to implement your own version of the sorting algorithms, and cannot use existing programs provided by Java library.

Please submit your program along with the measured execution time for each sorting alogirthm

You may earn up to 2 percentage extra points for each optional project completed.