CMPE 261 - OOP and Concurrent Programming

Assignment-04

Worth 5% of the assignment mark!

Deadline: 09:00, March 11

In your assignment,explain your codes with *comments*. Without *comments*,your assignment will not be marked.

Define all of your class member variables **private** explicitly.

Question

Write a program that creates tables for double numbers according to given numbers from the command line. Suppose, if you execute your program like this: **java Tabale 2 3 i** , it means your are going to create a table with 2 rows and 3 columns. After you have created your table, print out your table to console, to see its data. Then calculate average of each rows in order to sort this table according to averages of each row. The last parameter that given from the command line, "**i**", means, print out table in increasing order according to averages of each rows. If the last parameter is "**d**", then your table must be printed out in decreasing order. Fill your table with random double numbers that maximum 8 digits. So you must use the "printf()" method to get formatted output, see Chapter 2.1 of Walter's book reference.

As you see, row and column numbers change according to give parameters, so your program must give general solution. Write your own sorting algorithm. You are not allowed to use any soring algorithm that comes with **Java** library.

Hint: Use OOP concepts and methods effectively.