

Project 1: Due Saturday October 7

- 1) Submit your USB on time
 - a. USB should be labeled outside by your full name
 - b. All classes (source code) are stored in the folder Project1
 - c. Each class should begin with comments including
 - i. Your name
 - ii. Date
 - iii. Description of the class
 - d. Source code must be checked the open and closed curly brackets.
- 2) Instructor will compile and execute your classes via Terminal
(You must be careful to make sure that your classes will be compiled by javac in Terminal) --- If the compilation is failed, the grading process will be stopped.
- 3) Tasks: Implement the sorting techniques Insertion, Bubble, and Selection using the following outline.
Important notes: You MUST follow the following outline. Your project will not be graded if you don't follow.
 - a. Class <Sort Array>
 - b. Attribute: String <s>;// sequence of integers separated by blank (all ending blanks should be removed by trim());
 - c. static int[] sA ; //this is a global variable, NOT an attribute; it is the outcome of split() the string attribute mentioned above.
 - d. Constructors. There will be 3 constructors:
 - i. The one without parameter: //because users will enter the attribute via keyboard one line of all integers separated by blanks.
 - ii. The one with a string parameter as the attribute
 - iii. The one with array parameter as an array of integers.
 - e. The method toString to display the global variable sA
 - f. Three methods to sort the attribute and store the result to sA
 - g. Other methods needed to support items b-f
- 4) class Test includes only main to address the following tasks:
 - a. an object is created by the first constructor (the one without parameter)
 - b. its attribute is sorted by one of the sorting techniques.
 - c. Display the outcome (i.e., print the array sA)
 - d. Another object is created by the second constructor
 - e. Display its attribute
 - f. Sort this attribute by one of the remaining sorting techniques.
 - g. Display the outcome of sorting
 - h. Repeat 4 d-g using the last remaining sorting technique.

NOTE: All output must be labeled to identify which instruction performs the output.