This homework is designed to give you practice on writing Java subroutines. It involves 6 written exercises --- you are to answer the questions on paper (type-set) and submit. The method headers are provided for the first 2 questions to help you get started.

About 10% of the grade is still reserved for a good programming style. So do remember to **indent your code properly** (for every block of code) and do remember to **add sufficient comments**.

**Submission Instructions**

- Your submission should include the following at the top
  
  Your name  
  COMP 110  
  Assignment number 7  
  Total time taken to complete this assignment  
  Pledge: I have neither given nor received unauthorized aid on this assignment  
  
  (signed) __________________

  Sign the pledge by typing your full name.

- Turn in a paper copy of your submission. Please type-set (do not hand-write). Hand this to either the instructor or the TAs by the submission deadline.

- Submit on blackboard the full solution as an attachment.

**A Reminder on the Honor Code**

Please review the honor code for this course. It is ok to:
Discussing the assigned homework problem to understand its meaning.

Discuss about specific HTML, Javascript, or Java features

In all cases you must explicitly acknowledge any and all substantive help received from other individuals. That is, if you collaborate in any of the above ways with other individuals then you must include an explicit acknowledgment in your homework solution of the persons from whom you received aid. Acknowledging others, if done properly, will not adversely affect your grade.

Unacceptable collaboration on written homework includes:

- Copying HTML, Javascript, or Java code (or any portion of your homework solution) from other students, or from the web.

Should questions arise during the course of working on a problem please feel free to contact the instructor. In principle, if you work with others in good faith and are honest and generous with your attributions of credit you will have no problems.

**Homework Exercises (1-6)**

1. Write a Java method that takes two integer parameters and returns the larger.

```java
public static int larger(int x, int y) {
}
```

2. Write a Java method that takes three parameters: an integer array list, and two integers i and j, and swaps list[i] and list[j]. This requires only three lines of code in addition to the method header.

```java
public static void swap(int [] list, int i, int j) {
}
```

3. Write a Java method that takes one parameter, an integer array, and returns the index of the smallest value in the array. If the smallest value occurs more than once, return the index of the leftmost occurrence.

4. Write a Java method that takes a String as parameter and returns a String that is the same as the parameter, except the leading and trailing blanks have been removed. For example, if the parameter is “ 123 ”, then the returned value is “123”.

5. Write a Java method that takes an integer array as parameter and returns the average of the elements.

6. Write a Java method that takes an integer array as parameter and returns true if the array is sorted in non-decreasing order left-to-right. Non-decreasing order implies that every element (starting from the second element) is either greater than or equal to the previous element in the array.