Assignment #1
Deadline: Monday 05/02, 23:59

Median & Average calculator: We want to generate a code that computes the median and average of three variables and compares them.

(1) Define three real-valued variables.
(2) Initialize them with arbitrary values of your own choices (to be changed by us).
(3) Compute the average of these three values and call it `*meanValue*'
(4) Compute the median* of these three values and call it `*medianValue*'.
(5) Your program must print the following in the console with the **EXACT** same format as shown in the example below:
   a. The values of the three input variables
   b. The median
   c. The average
   d. Comparing the median and the average and printing one of the following in the console, depending on the values:
      i. The median and the average are equal
      ii. The median is larger than the average
      iii. The median is smaller than the average

Example of the output in the console (when we choose 10.0, 20.0, 30.0 as input values)

```
The three input variables are 10.0, 20.0, and 30.0
*************************************************************
The median is 20.0
The average is 20.0
*************************************************************
The median and the average are equal
```

NOTE1: The format of your output must be identical to the above example; i.e., include the two star lines and use the same sentences (except that the values must be changed according to the input). Points will be deducted, otherwise.

NOTE2: You must NOT use any pre-defined functions in Java such as sorting.

NOTE3: Please name your files as A1_<st#>.java. For example, for a person with student# 000000 the file name would be A1_000000.java. Submit your files on your dropbox folder on Canvas.

*What is median? In an array of values, when sorted, the median is the element that is in the middle. For example, in the array [1, 4, 8, 3, 2] the median is 3, because once sorted [1, 2, 3, 4, 8] the value 3 comes in the middle of the sorted array. Hint: for an array of size 3 you do not need to sort the array. You should just use if-else conditions to find what value comes in the middle.