**Object Oriented Programming with Java**

**Additional Questions & Lab Sample Code**

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**Lab 10**

3. The code for sorting implemented in Problem 2 assumes that only positive real numbers are input from the user. In practice, however, there is no guarantee that the user will always keep this promise and enter it. So refactor your code to throw an exception for negative real number (zero) and string input.

**Lab 11**

1-1. By using Iterators, we can easily traverse the Collection Object and access the data element of collection. Moreover java provides ‘for each’ to implements iterator more concisely. Modify previous iterator code with using ‘**for each’**.

2-1. After java8 provides **“lambda expression”** to easily use anonymous function in java. The code in question 2 above can be refactored more concisely by using lambda expressions. Please write the modified code with Lambda expression.

**Lab 12**

In my opinion, the difficulty of the lab12 assignment questions was already high enough for students to do the assignment, so I didn't add any questions.