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When you are satisfied that your program is correct, write a brief analysis document (.pdf format only). The analysis document is 20% of your Assignment 2 grade. Ensure that your analysis document addresses the following.

1. This assignment is traditionally done with Pair Programming. Were there times you wish you had a partner to bounce ideas off of? We will ask you to compare your experiences with these first, "single" to assignments to the paired assignments later on in the semester. Please use your answer here for reference later.

If I had a partner to do this assignment, I think that we can share lots of ideas about inheritance concept, comparable, and comparator things. However, the good thing is that I can get a time to think and study by myself. I think the purpose of single assignment requires the point of participating well, and it also requires pro-active aspects about doing assignment.

2. Java's built-in classes Comparable and Comparator are both interfaces for doing comparisons among objects. What is the difference in the two interfaces? Give a situation when it is best to use each. Is it possible to change the extra features in LibraryGeneric such that the Comparable interface is used instead of Comparator? Why or why not?

Comparable objects refer to compare two objects with general methods, and I can't control compare method with using it. However, Comparator object is to compare two objects with my own implements such as finding longest words, or descending order of ideas. In this assignment, the best situation of using this is comparatorbyauthor method. The method requires that if authors name are same it should orderedby ISBN. It means that I need to control compare way to get my goal.

In the assignment, orderByIsbn method can be used comparable object because the method looks natural thing, and any specific compare way. However, OrderByAuthor and OrderByDueDate need specific compare way to achieve the method goal such as ordering opposite order, and if they have same author, compare ISBN things.

3. Comment about the efficiency of your programming time. Did you utilize the time spent on this assignment effectively? How might it be improved?

I spent 8 hours to do my assignment. Coding time wasn't spent a lot, but writing the testing code time requires lots of time because if I find some errors, I need to fix it. At this assignment, I didn't utilize the time spent effectively because when I write some test codes, I need to write all the output and input format to test them. It takes lots of hours to write them. I think I need to find good skills to take care of them in testing code things.

4. Reiterate why writing Generic code is important for this course. Phrase your answer in terms of Data Structures and Algorithms.

If I use Generic code, it helps me to use same class with different type of inputs. It means that I don't need to overwrite other class by using Generic code. Generic code also help elimination of casts, and it means that we can implement generic algorithms that work on collections of different types, and it is safe and easy to read.

5. How many hours did you spend on this assignment?

I spent 8 hours to do this assignment.

Upload your document (as a .pdf only!) to the Assignment 2 page by 11:59pm on September 7th.