

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.

Yes, I often wish I had a partner to double check the changes that I made. Sometimes I'd also get stuck and I know it would have made things go more smoothly if I had someone to discuss the ideas with.

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 uses the compareTo method. This has to do with the ordering, so 0 should be returned in this case for when .equals() comparisons are true.

Comparator sees how two objects are different but this would be used more for sorting than for natural ordering.

Making the changes would not be recommended since they are used for very specific things such as sorting.

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

My programming time was used efficiently for the most part. This assignment has definitely taught me to start earlier on CS projects though.

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

Generics is important because it lets you use higher classes to simplify your code. Instead of retyping (potentially causing more errors), you just refer to the higher class that the sub-classes extend to. This is very important for larger, more complex programs as generics helps break things down.

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

18 hours