

15.04 Assignment Instructions

Instructions: For this assignment, modify the Homework project classes to implement the `Comparable<T>` interface.

Let us put the `Comparable<T>` interface into our homework classes. You will be comparing them based upon the pages you have to read for each assignment. Of course, this is assuming that all your homework can be ranked based on the number of pages you have to read. In real life, it is more complicated than that, but let us keep it simple for now.

1. Create a new project called 15.04 Assignment in the Mod15 Assignment folder.
2. Create new classes to the new project folder as needed while working through this assignment.
3. Copy the classes previously created for the homework project into the project folder. Rename the class names to be version 4.
4. Update the `Homework4` class to implement the `Comparable<Homework4>` interface.
 - a. Implement the `compareTo` method to return an integer. Use the number of pages for each homework assignment in the comparisons.
5. Make any needed updates to the four subject classes.
6. Update the client class to test the project.
 - a. Create an instance of each course subject.
 - b. Create an assignment for each course.
 - c. Use an array list to organize all the courses. Remember to use the `List` interface.
 - d. Display a list of all homework assignments.
 - e. Demonstrate the `compareTo` method by comparing all homework assignments to each other. Report if an assignment is more, less, or the same as another. Compare two homework assignments once and only once. Do not compare an assignment to itself.

Expected Output: This is a sample of the expected output. The details will vary based on design choices you make while completing the project.



Options

My Homework List

Trigonometry - read 4 pages.

_____ - read _____ pages.

_____ - read _____ pages.

_____ - read _____ pages.

Comparing My Homework

The homework for Trigonometry has LESS pages to read than _____.

The homework for Trigonometry and _____ are the SAME number of pages.

The homework for Trigonometry has LESS pages to read than _____.

The homework for _____ has MORE pages to read than _____.

The homework for _____ has MORE pages to read than _____.

The homework for _____ has LESS pages to read than _____.



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