

CS 212 – Spring 2021 – Project 4

Assigned: 27 April 2021
Due: 11 May 2021
Cutoff: 14 May 2021 (midnight; no exceptions; -3 pts/day)

Use a TreeMap to Sort the Bulbs by Part Number

The project should work the same as project 2, opening a chosen file and displaying the unsorted Bulbs on the left and the sorted Bulbs on the right, this time sorted by Part Number. For this project do not use the arraylist to sort the Bulbs, but rather use a TreeMap (adapt the code from the PowerPoint on Maps).

Create an Edit Menu in your GUI

Add a second menu to the GUI called *Edit* which will have one menu item called *Search*. Clicking on search should prompt the user using a JOptionPane input dialog to enter a Bulb's Part Number.

The program should then use a JOptionPane message dialog to tell if the Bulb is in the TreeMap or not. You will need to write a second menu handler called *EditMenuHandler*.

Create a jar file called **Project4.jar** containing the **source** code for all the necessary classes and submit that to Blackboard by the due date for full credit.