Queens College
Computer Science Department

CS 212 – Spring 2020 – Project 4

Assigned: 23 April 2020
Due: 8 May 2020
Cutoff: 13 May 2020 (midnight; no exceptions)

Use a TreeMap to Sort the Clocks

The project should work the same as project 3, opening a chosen file and displaying the unsorted clocks on the left and the sorted clocks on the right. For this project do not use a sorted linked list to sort the clocks, 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 hours for a clock. Your program should check that the hours are between 0 and 23, and that the value entered is an integer.
      The GUI should then display only clocks with hours at or below the given value. 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.