

CSCI 201L Spring 2014 – Section 1
Midterm - Programming
12.0% of course grade

Create a program that behaves as a specialized word processor and spreadsheet application based on different tabs. The program should open to the word processor and have a tab, as well as a menu item, that allows changing to the spreadsheet application.

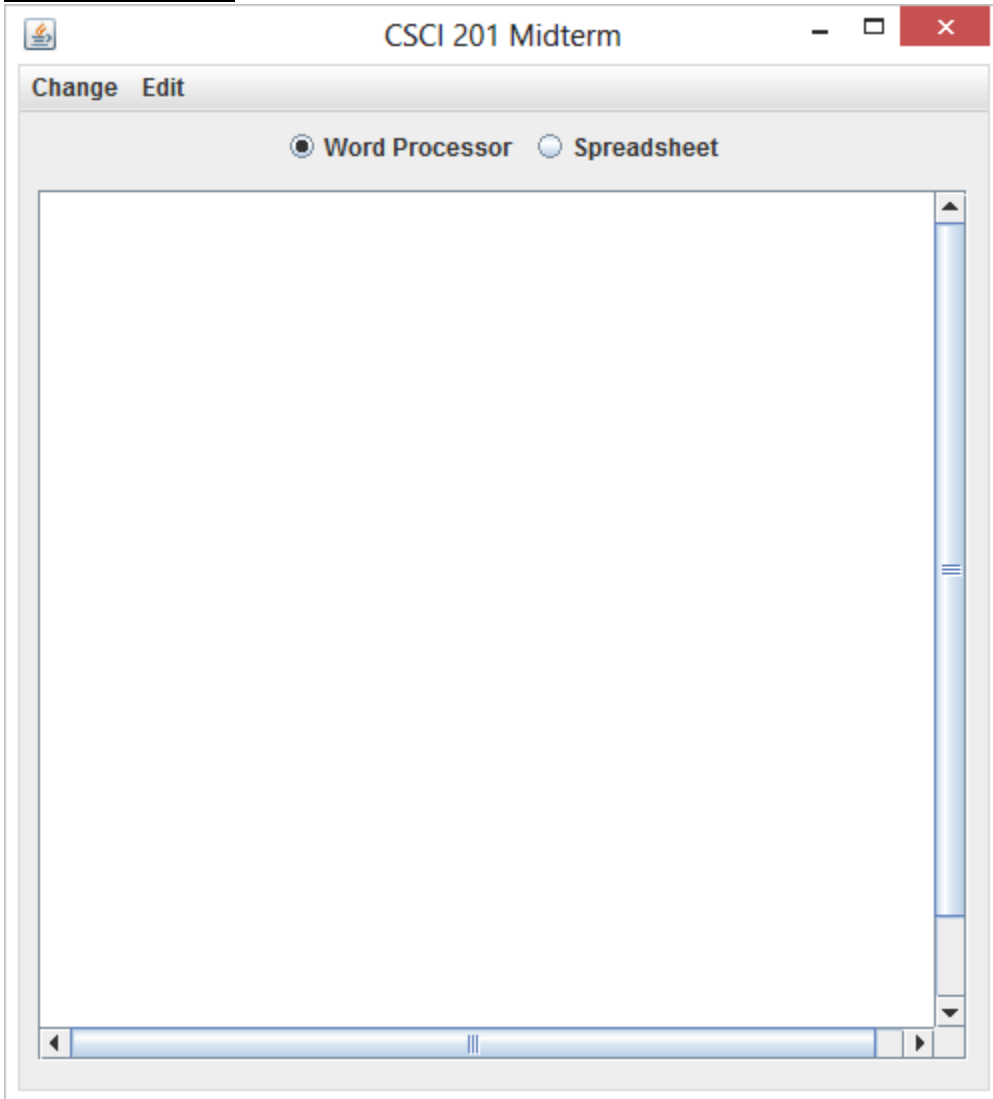
Your graphical user interface should look like the screenshots in the Sample Execution section below. There will be a menu called “Change” with menu items “Word Processor” and “Spreadsheet”. The radio buttons that are displayed at the top of the frame should change based on which interface is currently shown.

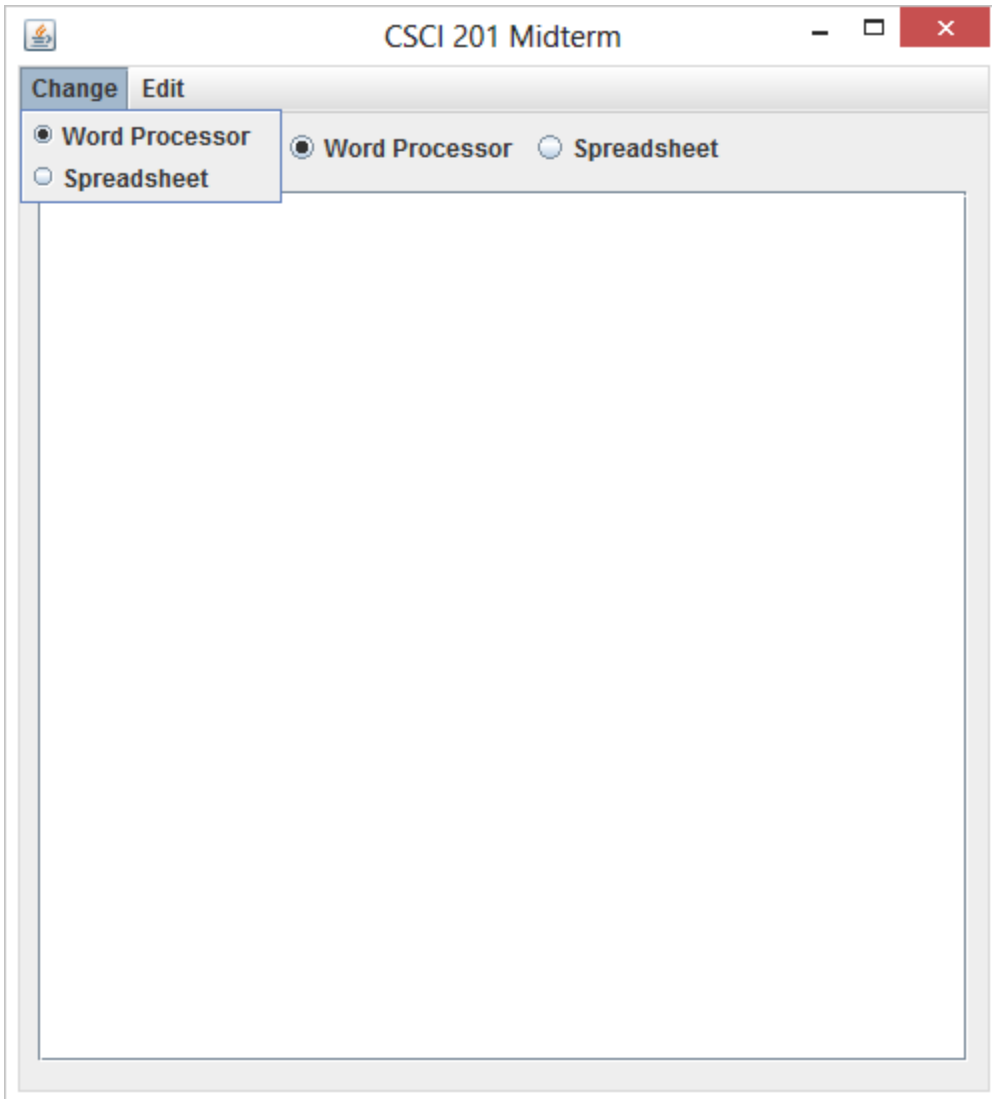
When the word processor is displayed, there should also be an “Edit” menu that allows the user to bold, italicize, and change the font for the entire word processor. There should also be a sub-menu on the “Edit” menu called “Font” that allows the user to select among “Times New Roman,” “Courier,” and “Arial.” This should change the font in the word processor.

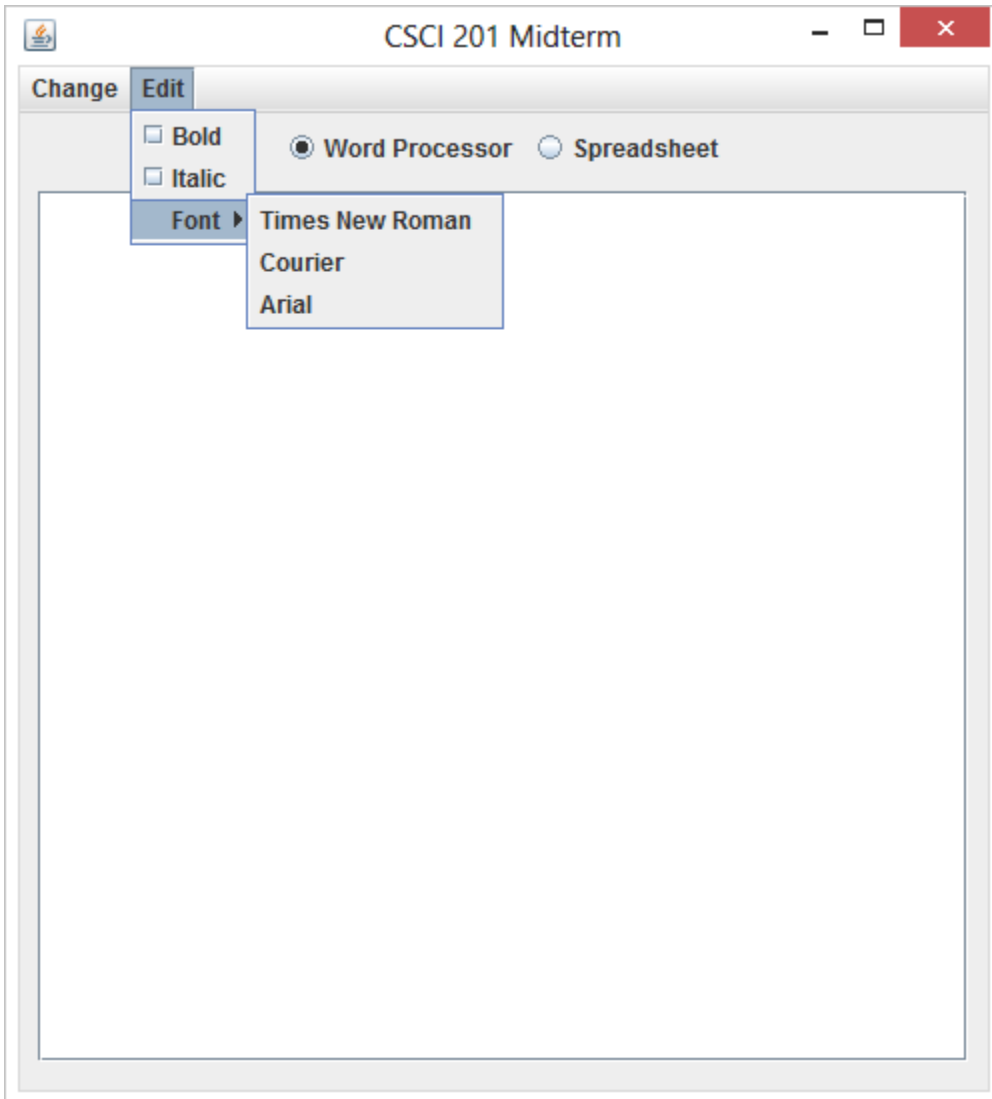
When the spreadsheet is displayed, there should not be an “Edit” menu but instead there should be a “Table” menu. The “Table” menu should have a “Row Height” and “Font” sub-menu with the same options as on the word processor Font sub-menu. This should change the font in the entire spreadsheet. The “Row Height” menu item should pop up a box that allows the user to change the height of all rows in the table. A dialog box with a drop down menu should be provided with the following options for the row height: 6, 8, 10, 14, 20, 28. This is shown below.

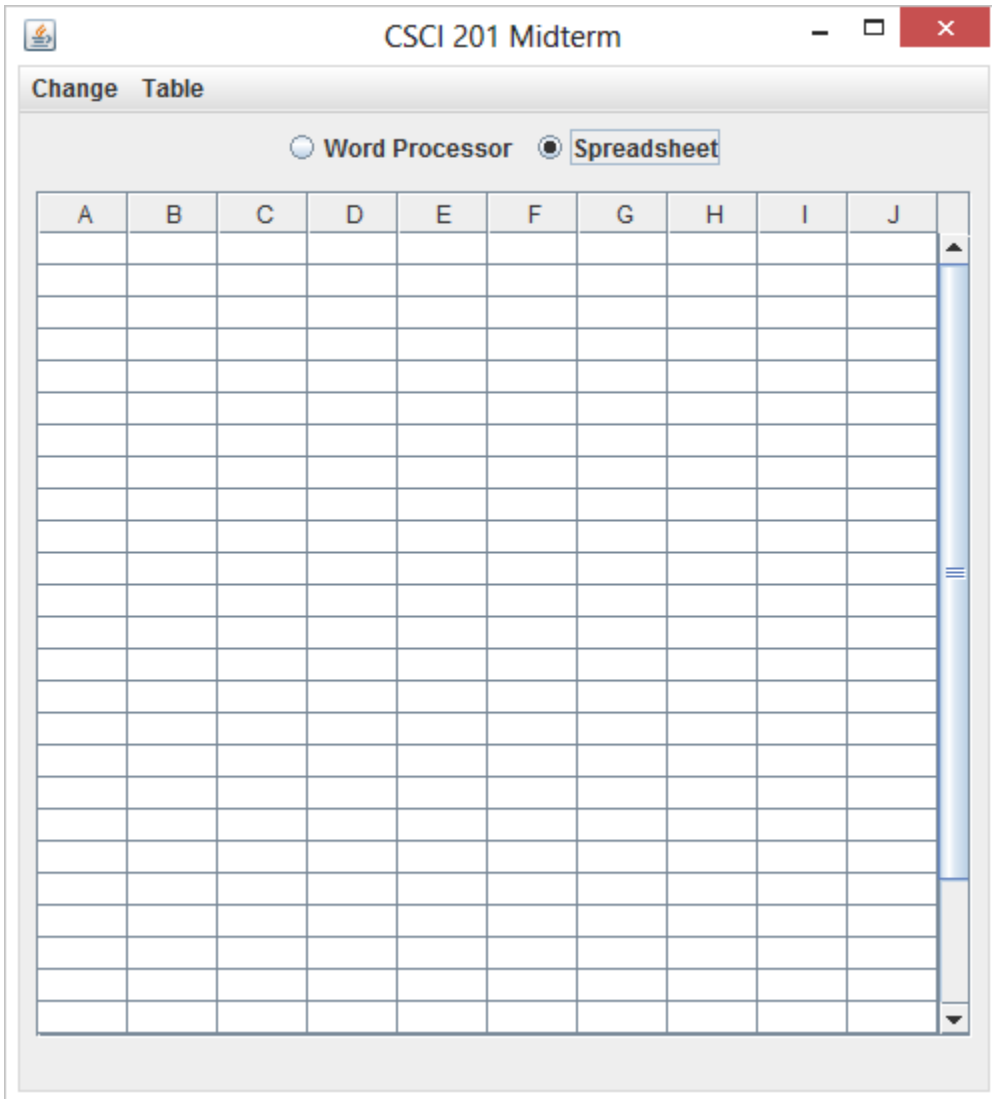
With the menu items on the “Change” menu and the radio buttons on the GUI, the same action listener should be used.

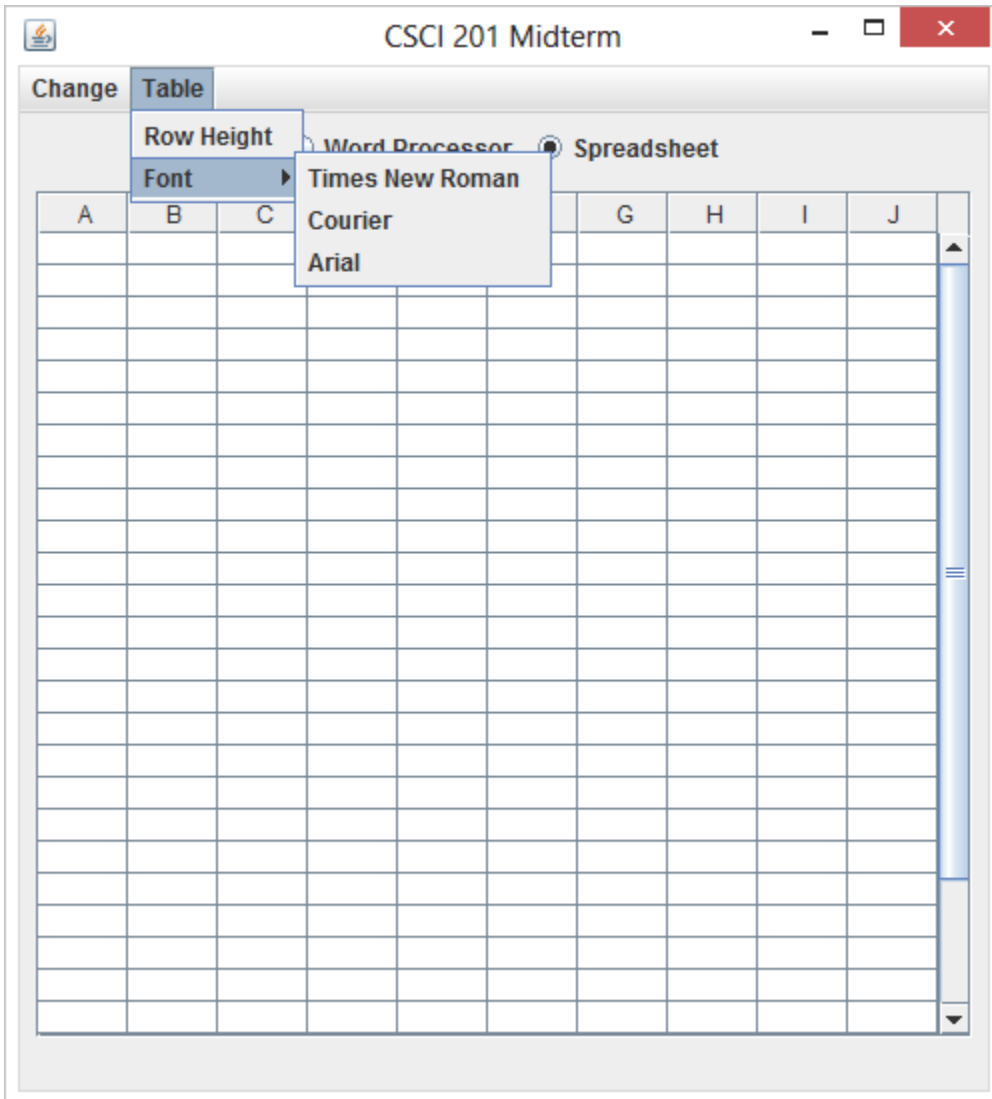
Sample Execution

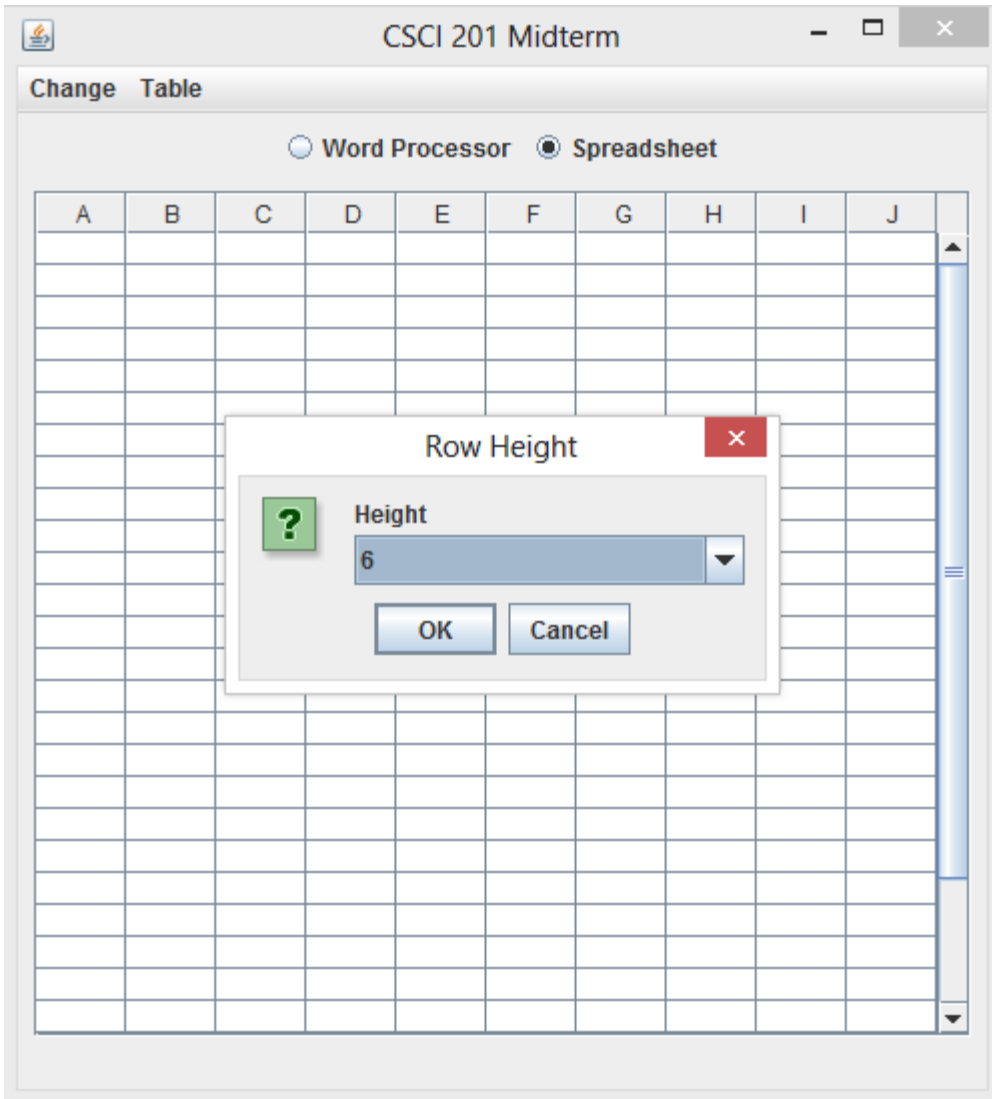












Grading Criteria

% of Final Grade	Criteria
1.0%	Menu bar correct for word processor
1.0%	Menu bar correct for spreadsheet
1.0%	Menu items for switching between word processor and spreadsheet work properly
1.0%	Radio buttons for switching between word processor and spreadsheet work properly
1.0%	Bold and italic menu items work correctly for word processor
1.0%	Changing font menu item works correctly for word processor
1.0%	Row height dialog box displays as shown
1.0%	Row height menu item works correctly for spreadsheet
1.0%	Changing font menu item works correctly for spreadsheet
1.0%	GUI looks the same for word processor, including scroll bars
1.0%	GUI looks the same for the spreadsheet, including scroll bar
1.0%	Using same action listener for "Change" menu items and GUI radio buttons