See revised teams on class website. Use the same report cover page and roughly the same grading rubrics as Project 1. Download the initial Project code and sample data files from the course website.

Step A. First, get FLTK installed and the project to build, study the code and run it with the sample data. Show that you can build it to your TA by April 5th - 8th in lab. Each team should turn in a brief one-page report contrasting the operation of the main loop in Project 1 with the main loop in the Project 2 code. Give a one paragraph describing the main loop in each project, and the third should contrast the two loops. The goal is for you to understand the fundamental differences between the two control loops.

Step B. Due April 11th, 2010 at midnight. Turn in individual solutions and merged solutions on CSNET with a hard copy of your team report to your TA. Two-person teams may work only problems 1 and 2.

1. Change About Box to give information about your team (names, sections, team number). Write the code to make the Exit→Save and Close menu function work correctly.

2. Make the Show menu selections (Category, Customers, and Products) work like the main window buttons for Categories, Customers and Products. Improve the alignment of data displayed in the main window by formatting it into fixed-width columns with the appropriate titles.

3. Add Show menu items for Carts and Cart_items that work like the buttons for Carts and Cart_items in the main window. Also create a Help window when the About→Help menu item is selected, and display information to help a program user.

Step C. Due April 18th, 2010 at midnight. Same instructions as for Step A.

1, 2, and 3. There are three Find and Update menu commands. Each team member should develop the GUI code for one Find and one Update command. Do this using a pop-up window that contains the dialogue with the user and the results of the specific Find or Update command.

Step D. Due April 25th, 2010 at midnight. Same instructions as for Steps A & B, except work these problems as a team so as not to duplicate work. These problems require you to graph data as in slide 45 of the chapter 15 lecture.

1. Add a main window menu Graph between Update and About that has a dropdown section for the following two graphing problems. In a pop-up window, graph the total of all cart sales by month. Figure out the axes and label them correctly. Also, graph the total sales by customer (i.e. add up all the carts for each customer) and graph the value as a vertical bar (wide line) sorted by the sales total.

2. Graph total category sales by month as a bar chart where the bar (a wide line) is the total sales across all categories but the color of segments of the bar varies by % of sales for each category.