**CSIII: Programming Patterns**

**Lab 4 Assignment: Roster without Conflicts**

The project is due in one week: by the beginning of the next lab. Make sure to include your name in comments of the source files.

Recode the roster example we studied in class such that it drops the students who are concurrently enrolled in CS4 and any other class. That is, the student's name should be printed if she is either in any of the classes besides CS4 or in CS4 alone.

For example:

Mary Price is taking CS1 and CS2.

Stephanie Watson is taking CS4.

Raymond Powell is taking CS3 and CS4.

Only the names of Mary Price and Stephanie Watson should be printed while Raymond Powell's name should be dropped since he is taking CS4 concurrently with CS3.

The container of the master student roster should be modified as follows: the vector (or other sequential container) should contain student entries. Each entry is a linked list (or other sequential container) where the first entry is the first (or last) name, followed by entires of the courses the student is enrolled in. You are not allowed to use associative containers. The advisable structures are as follows: vector<list<string>> studentEntries or list<list<string>> studentEntries Assume that all students have different last names.

After this your program should examine each student entry in the master student roster and remove students who have CS4 combined with other classes.

The printed-out list may be tab-separated. You may assume that the text file structure is: one name per line; the line contains a first name followed by last name separated by white space. Each student has exactly two names: first and last. The course name is the file name without the extension.

**Milestone:** Print a list of students and the classes they are enrolled in.