Agenda / Learning Objectives:

1. Work in pair and answer the follow questions from textbook:
   Chapter 10 question 4: Student

Create a class named Student that has three member variables:

- **name**: A string that stores the name of the student
- **numClasses**: An integer that tracks how many courses the student is currently enrolled in
- **classList**: A dynamic array of strings used to store the names of the classes that the student is enrolled in

Write appropriate constructor(s), mutator, and accessor methods for the class along with the following:

- A method that inputs all values from the user, including the list of class names. This method will have to support input for an arbitrary number of classes.
- A method that outputs the name and list of all courses.
- A method that resets the number of classes to 0 and the classList to an empty list.
- An overloaded assignment operator that correctly makes a new copy of the list of courses.
- A destructor that releases all memory that has been allocated.

Write a main method that tests all of your functions.

CodeMate hint: Recall that cin >> variable leaves a newline in the buffer. This can be a problem if you are mixing cin >> variable and getline. Use cin.ignore to discard the newline.

Note: Run the following command and extract lab22.tar in your venus account for the solution (note the dot):

```
cp ~ctse/cs211/lab22.tar . ; tar xvf lab22.tar
```