**CS 121 – Week 9 Worksheet – File IO and Classes**

**Syntax Work:**

This assignment uses the class you developed in last week’s worksheet, i.e. in *Student.h*.

It will be easiest to use the Student.h file supplied in this week's folder (on Github).

In this exercise there is one file to complete: *file-io-main.cpp*

*file-io-main.cpp:*

* Implement the following functions (prototypes are given for your convenience):
  + *load\_from\_file*: Loads student data from a file
    - The maximum amount of students in a class is 30.
    - If the user puts more than 30 students in a class, ignore the rest.
    - If the user puts 30 or more students in a class, print the last student accepted.
    - An example of a Student data file is shown on the next page (three students).
    - Assume the student names have no white-space in them.
  + *find\_student*: Search for a student in the student array
  + *print\_list*: Print all students in the student array
* **NOTE:** Arrays are passed by-reference, so don't worry about that part.

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**Questions (to think about before tackling the code):**

1. How can we keep a limit on how many students we read in?
2. How do we read data inside a file? Think of *cin/cout's* similarities to *ifstream/ofstream*.
3. How do we give the user the option to search by name or by id?

Student data example (for my name, id, grade work; tweak the below for your class variables):

John

1234

77.66

Becky

5555

88.50

Zeed

5513

90.30

…etc…