Design

The intent was to quickly make things as modular as possible. Having a modular and self-checking codebase was important for me. I forsake the self-checking programming as I found myself debugging the sorting and array of student's vs array of student pointers, which was my first design choice. I re-evaluated and decided to shrink complexity down some.

Main

Main file handles most of the logical processes to ease troubleshooting for things like display managers or array creation. The main performs the initial read and write from the text file given. This also handles parsing. I could have separated but decided not to due to time constraints I found myself in. There is a simple while loop guiding the user to decide how to update the roster. Update function does not perform as intended.

Header Files

Each major function was split into separate header files. I have a display header for the display manager, student class, and student array file to handle their prospective tasking.

Soure Files

Each source file performs their actions as autonomous as possible. The display manager displays a simple menu. The student class performs the student encapsulation. The array list is found the Student Array source file.