

Team Members

Daniel Jones, Amanda Krysl

Initial Decisions

We decided to use Python and are using Visual Studio Code as our environment.

Notes on selected internal structure:

- We decided to use an array to store our data
- We created a Student class in which each line of data in the students.txt file is stored in an organized Student object
- We used an array to hold the students with each element containing a unique student object

Task Log

- 0.5 hours (Both): Brainstorm ideas for tackling the problem, looking at possible data structures and language that would support or main objectives.
- 1 hour (Daniel): Create the student object and understand how the input text file would be parsed into our program.
- 1 hour (Amanda): One step behind Daniel, debug and troubleshoot issues with parsing method and begin thinking of test cases. Also, interact with requirements to make sure all specific details are met.
- 1 hour (Daniel): Create the helper functions that would retrieve and print the appropriate data given certain commands.
- 2 hours (Amanda): Begin implementing test cases and finding bugs. Finish test suite and cover all test cases.
- 1 hour (Daniel): Write-up and formatting.

Total time: 7.5 hours

Testing Notes

We began writing test cases once the initial code was written for our program and continued as the last step in completing the assignment. Amanda did all of the test cases for this assignment. Testing revealed issues with the initial parsing of the students.txt file, where each line was not acknowledging the newline character, making the parsed output inaccurate for populating the student information. Fixing the bugs took single-line changes, which took a bit of time to find but not much time to resolve.

Final Notes

Overall, this assignment went over smoothly and we were able to deliver a solid program to accomplish all of the requirements. One note is that our argument parsing ignores the "optional" portion of the command, and only looks for the first letter to be significant. Based on how the specifications are laid out, we found this implementation to be most practical.