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Initial Decisions:

- Programming Language: Python3
- Development Environment: PyCharm, GitHub

Internal Structure:

- Each student is represented as a dictionary (with the keys last_name, first_name, grade, classroom, bus, gpa, teacher_last_name, and teacher_first name) to easily search the students by one of these keys and access all the corresponding students' values.
- All students are stored in a list, students, to simply iterate through when searching.

Task Log:

- Read in students.txt
 - ~ 1 hour
- Set up user commands
 - ~ 1 hour
- Implement functions
 - ~ 8 hours
- Create test suite
 - ~ 2 hours
- Create output file
 - < 1 hour
- Create README
 - ~ 1 hour

Testing:

Each function was tested during and after its individual implementation. Commands updated to accommodate a later related one were tested again after adjustments were made to their implementations. Finally, all functionality was tested again after complete implementation.

Bugs:

- "Unrecognized command. Please try again." message printing after every command
 - changed conditions from if to elseif in user input while loop
 - no dedicated time towards fixing; eventually realized realized mistake
- "Unrecognized command. Please try again." message printing after inputting long form "High" command
 - replaced "High" before "H" when parsing command
 - ~20 min
- Error by grade values not being ints in implementation of l[nfo] command
 - had initially considered casting & checking all value types when reading in students.txt but changed to not for simplicity

- casted and checked inside function as needed (such as in this case) instead
 - ~20 min
- Error by gpa value not being float in implementation of A[verage] command
 - casted and checked inside function
 - ~10 min