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

Task Log:

- Read in file.txt and teachers.txt
 - < 1 hour
- Adjust existing functions
 - < 1 hour
- Create new search commands
 - ~2 hour
- Create analytical commands
 - ~3 hours
- Create new test suite
 - ~1 hour
- Create new 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:

- long form students with C[classroom] command returning empty line
 - moved replace(' Students', '') before replace(' S, ''')
 - ~5 min
- calculate_average function returning None

- changed print to return
 - ~10 min
- longform classrooms with l[info] command listing 0-11 instead of 101-112
 - added parenthesis around classroom+101 in print statement
 - ~20 min