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Lab 1-2 Write-up

Initial Decision:

Language: Python v3
Environment: Vim, VSCode

Internal Architecture:

- Parsed the lists.txt file and created a Student object per student
 - Stored properties including:
 - Student Last Name
 - Student First Name
 - Grade
 - Classroom
 - Bus
 - GPA
 - Teacher Last Name
 - Teacher First Name
- Parsed the teachers.txt file and created a Teacher object per teacher
 - - Stored properties including:
 - Teacher Last Name
 - Teacher First Name
 - Classroom
- Stored Student and Teacher objects in separate dictionaries for amortized $O(1)$ look up times
 - Much faster than $O(n)$ look up for arrays

Task Log:

- Justin
 - Code refactor, NR1, NR2, Write-up
 - Person Hours: ~ 3 hours
- Edward
 - NR3, NR4, Test Cases
 - Person Hours: ~ 3 hours
- Angaddeep
 - NR5
 - Person Hours: ~3 hours

Test Cases:

We ensured to test each method as we developed them so we did not encounter any critical bugs at the end of the program.