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CIS 22C

HW1 Report

Things I liked:

Ahmed's code was functional straight out of the box. It was thoroughly documented, he had the initial documentation on the top and each function had a description preceding it. His code was organized to an extent. His member function implementations were all sorted by their corresponding class.

Critique:

All of Ahmed's code was in a single .cpp file. This reduces the re-usability and increases the time it takes to update it. I even had a difficult time finding main! I suggest separating files in accordance with C++ convention. The code is also limited due to it being so proprietary. It would be difficult to modularize and separately use the Car class and Linked-list components. I recommend keeping the link-list's data general so it can hold any sort of data type. Speaking about linked-lists, I had a difficult time actually finding it at first, the name was stringOfCars, how would anybody know what that is from the name? Keeping the names descriptive is best option, again I suggest following the C++ convention. The linked-list also lacked the delete and search functions, even if a member function isn't used, it should be added to promote re-usability. I also noticed the inherited classes from the car class were repeated code, a simple and effective solution to this would be to have just one inherited class with a int or string distinguishing the different types.

Things I changed:

I added accessors to the Car class. Then I added a search function to the linked list. It was easy to traverse the list through pointers. I kept the function modular by keeping it strictly a search function. It takes a car number and returns a ptr to the found car, or a null ptr if it doesn't find anything.