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CS 202, Project 2

Project 2 Write Up

The core of the program revolves around a struct, which allows for a larger manipulation of the variables obtained from the read file. The main prints a menu with seven options, read in a file, print the data stored, write out to a file, sort the data by price, give an estimated rental cost for available cars, rent a car, and exit.

The challenge of the first option was to get the read in to read into the array of structs correctly, which a ten minute google search gave the needed format. Printing the data required a simple for loop to iterate through the array and was written similar option one. Writing out to the file gave me trouble as I wanted the prompt for the file name to be included in the function and not in the switch statement, but when trying to do so the compiler would freak out, so I ended up putting the prompt into the beginning of case 3. Sorting by price gave me the most trouble, pointer logic is still hard for me to grasp fully, but after simplifying it down I was able to nest a function inside of a function, which was a large struggle for me on the last project. The estimated cost was a simple as only printing a car’s rental price by the days for rent if the car had a bool variable equal to one. Renting the car was the same code as the case before it but with changing the bool variable to zero in the struct so it wouldn’t be available for rent.

I would have liked to get case one to a point of being entirely inside a function. The sort by price gave me the most trouble on this project as structs can only be referenced by pointers, to my understanding