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COMP 271

Final Project Write Up

The goal of this project is to acquire a list of vehicles associated with a number of thefts. The thefts were listed as times and dates. The vehicle information is provided from a parking meter in the form of date, time in, time out, make, model, and plate number. To link each vehicle to a theft, the theft time must be within the time in and time out and the dates must align.

All of the data from the files were put into dynamically allocated arrays because the size will not change throughout the execution of this program. Also, they are efficient to parse through. To record the cars that are associated with thefts, I used vectors. Vectors are convenient because their size is variable and I do not need to know the number of cars associated with thefts upon declaring them.

Running this program is very simple. All it entails is entering the names of the files that contain the meter data as well as the theft data. For example, if I enter the name “project10.csv” the program will pull all of the meter data from it and insert them into arrays. The same can be done for the theft data, with the name “10.thefts.txt”, for example. The program will compare the data against each other to obtain results.

IDE: Codeblocks, OS: Mac OSX