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CS 202

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Project 1

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Project One Documentation

Purpose:

The purpose of this project was to demonstrate my knowledge of multii-dimensional arrays, passing variables by reference, and using fstream to read in a file as well as exporting to a file. The goal of this program was to have students demonstrate basic skills in C++ as well as basic linux commands such as using the g++ compiler and the script command.

Design:

I designed this program around the specifications listed under the project specification. My main design barrier was working on getting the array to be passed through a function by reference. When I was in CS-135 I learned how to pass arrays with pointers instead of just by reference. This posed the most difficult in my project. After I finally figured out how to get the array to pass properly I finished designing my two functions. One of the functions read in the “symbols” file and stored it within a 3-dimensional array. The second function asks the user for a file name to save the arrays information to. Once the user put in a file name, it would create the file, and print the data into the file. I figured these were the best functions since I was able to pass the array and the fstream variables by reference. It also kept my main function short and easy to read.

Changes:

At this point in time I do not deem any changes to be warranted. I feel as though the program is optimized in its performance and completes the task given. I could possibly change the functions that I made and have them do something else, I.E. the printing to console loop. Other than that I feel as though the program is optimized for the project given.