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INTERMEDIATE COMPUTER PROGRAMMING

C++ FINAL PROJECT

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One might think translating a code from one language to another will be very easy, but a better understanding of both languages can be challenging. After submitting the code in java, I took time to understand my code and ask questions about how to make my code more efficient.

To ensure that my code was more efficient than the previous one, I put most of the vital parts of my work in classes with separate functions to read each file and subsequently store the values into vectors before proceeding to use them in my breadth-first search algorithm for getting the route from one city to another. Implementing the algorithm was very challenging because I worked on two separate algorithms but later focused on the one that gave me more hope of producing an output. Although both algorithms worked, the breadth first search was more efficient.

While working on the project, I discussed my approach with most of my coursemates, so they can assess my thought process and correct me when I was wrong. It was tedious but also enjoyable to learn some things in C++, the idea of header files and their corresponding cpp files. I also learned the importance of paying attention to exceptions in your program because it saves you from wasting hours trying to resolve an error the system is not showing. I learned much about several data structures and how they influence my work. Although C++ has some generally predefined functions like find, its usage varies with respect to the data structure, and that got a little confusing but fun. Using vectors and writing the code proved that one needs to understand concepts since programming languages are versatile but concepts are static and run through all languages.

Although I did not necessarily work in a team, most people came to my aid as the program encountered errors. It was fun to listen to ideas from different people and how each statement significantly affects your work. I loved working on the project but would ignore the fact that translating from one language to the other can be challenging.

References

Dr. Korsah Python Code.

Lekane Styve

Renolds Boakye Okyere