Reflective Report

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Taking on this individual project greatly challenged my critical thinking skills and programming ability. From the onset, I considered it a challenge to translate the Java version of the code to CPP. It was challenging because I struggled to implement the Java version. However, this project taught me new concepts and changed some ideas about CPP programming. In this reflection, I ponder on my thought processes throughout the challenge.

To begin with, I had to redesign the program structure as my Java version of the project barely achieved the project's goal. Thinking through the problem at a high level, I figured that implementing the Breadth First Search algorithm for searching would make the task much more doable since my Java project tried to achieve optimality with Dijkstra's algorithm. This decision caused me to refer to some online resources to assist me with implementing the algorithm. I utilised several online resources like programiz.com and geeksforgeeks.org to research the relevance of some structures to the project. I also studied ideas for implementing structures like hashmaps, array lists and queues in CPP.

As mentioned earlier, my project employed the Breadth First Search Algorithm to meet the program's goal. One of the primary challenges I had with the BFS algorithm was tweaking it to use the necessary parameters that the program required to be effective. Although I struggled with implementing the algorithm to suit the problem context, I understood problem-solving better. One other challenge I had generally was with familiarising myself with CPP syntax.

In conclusion, this project introduced me to appreciate the dynamics of programming languages and the flexibilities that each of them come with. I learnt that incremental development is an essential aspect of programming. Finally, this project improved my ability to conduct technical research with online resources.

References

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