

This is my reflection on the Multi-Paradigm Programming C programming assignment due 27th October 2024.

This assignment in particular was very tricky, and it took numerous tries to get a couple things right

One distinct thing about this assignment was having to implement all my code based on predefined code in the various headers. I did initially have a problem deducing which variables to attribute to functions, particularly the `FILE_IO_ERROR` and the `MEMORY_ALLOCATION_ERROR` constants in the `core_definitions.h` header, as well as my `AdjacencyMatrix` pointer (which I had defined as a struct on the main page and so it was conflicting my code).

Another problem I had was time management. Up until Thursday evening, I was only partially done with the `adj_matrix.c` file (mainly because of the above problems as I encountered them there), and so I had little sleep all through Sunday watching videos and doing research on how to do my work. I watched some YouTube videos from Albert Lionelle, AlgoDaily and freeCodeCamp with whom I learnt to free my variables after implementation and to create loops to check if my parameters are valid along the way. Then I tailored my code to the predefined variables in the assignment.

I was most pleased with being able to configure the `adj_list.c` file as it was the trickiest to do for me. However, I will need to do some more practice and research on Dijkstra's algorithm and other algorithm paths and practice my defensive programming skills.