

HW 7
CPSC 326
Dominic MacIsaac
18 April 2022

Testing

I did most of my testing with the given tests and the example files. I also was able to test my program with the interesting programs I wrote for it.

Challenges

I had a few issues with getting the code generator working. The biggest issues I faced were with getting loops working and getting paths to work. A problem with my VM was also revealed to me during this which I had to figure out. Overall there was just a lot of little problems that I had to solve rather than one large issue.

Interesting Programs

1. Grade Calculator:

- Allows user to enter as many grades as they'd like along with how many credits each is worth and it outputs the gpa using a weighted average

This was the first program I wrote for mypl and it was a way for me to test creating linked lists and getting user input and running calculations.

2. Linked list with merge sort

- Linked list with defined functions for adding and removing nodes and for sorting using the merge sort recursive algorithm

This next program allowed me to really use the features of UDT's and recursion to its full functionality. Merge sort uses lots of recursion and it was a good way for me to stress test mypl.

3. Tic Tac Toe

- Two player tic tac toe game using a 2d linked list structure

This was a fun program to test lots of game loops and tic-tac-toe board checks(to determine if someone has won) which also used lots of function calls with various amounts of parameters.