354 Assignment 3 Critical Appraisal

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December 8th 2021

1 Part 1

To me this assignment was a little easier than the previous two assignments. I am not sure if this was because the assignment was actually easier, or that I had more knowledge of the course. After assignment 2 this felt more manageable and I was more confident in my Lambda Calculus skills after implementing some functions such as remove, sum, and map from assignment 2. I looked at the examples.lc file to familiarize myself more specifically with what we would be doing in this assignment. I tested the functions by running different test cases provided in the read me in the terminal. It was useful to try and predict the outcome of the function, because when I was wrong it made me think about why I was wrong and helped me to truly understand what was happening.

2 Part 2

This part was still not as challenging as assignment 2. For this part of the assignment we were given some time in class to work on it. This gave me a chance to talk through confusing parts with other students without having to go to Dan's SI or office hours to get it done. Normally I go to Dan's office hours to work through problems and see if other students are having similar issues. In Part 2, we had to implement different functions in Lambda Calculus to run a round robin algorithm. These functions include: newClist, next, get, insert, delete and update. It was confusing at first to change the language using the :setLang LamMem to run my round robin file. But once I made the switch I was able to test my code and it worked.

3 Round Robin

To implement the round robin algorithm the algorithm uses tick and addTask. Tick is the individual clock cycle that occurs before a particular task is completed. Another way to think about this is to think of it as 0 and every iteration of tick decreases the task size by 1. So if you had a task 4 and did tick tick it would now be 4. addTask is how you add a task to a list, followed by an integer,

which is the size of the task. So if the functuon addTask 5 tick tick, the size of the task would now be 3.