NEU Lab 4 – Scheduling Analyses

The goal of this assignment is to explore the differences in performance of scheduling algorithms based upon algorithm and parameters such as time quantum. The primary task is to implement a Round Robin scheduler given the code baseline for a FIFO scheduler. The code should be able to be run by switching the schedule ALGORITHM to S\_RR and assigning a time quantum constant for the Round Robin algorithm. All fundamental data structures should be able to be reused from the FIFO code.

Once the algorithm is coded, explore what time quantum yields the lowest overall normalized turnaround time for the given example program input.

For an added challenge, implement a multi-level feedback algorithm and play with parameters (such as individual time quantum) per priority level. See if you can obtain better performance (average normalized turnaround time) with your algorithm!