This program is a scheduler that takes in a list of iloc instructions and attempts to reorganize them to decrease run time.

run make

java scheduler -a < inputfile.iloc:

Running the scheduler with the -a flag requests for the scheduler to reorganize the instructions based on the longest latency path to root heuristic.

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java scheduler -b < inputfile.iloc:

Running the scheduler with the -b flag requests for the scheduler to reorganize the instructions based on the highest latency instruction heuristic.
Tie Breaker: If a queue has multiple instructions with the same instruction weight, it uses the instruction with the longest latency path to the root.

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java scheduler -c < inputfile.iloc:

Running the scheduler with the -c flag requests for the scheduler to reorganize the instructions based on the first in first out heuristic.
Tie Breaker: In this case, when the ready queue becomes temporarily empty as the scheduler waits for certain commands to finish running and then receives multiple new commands into the ready queue on the same cycle, it orders them by longest latency path.

Output File: schedule.out