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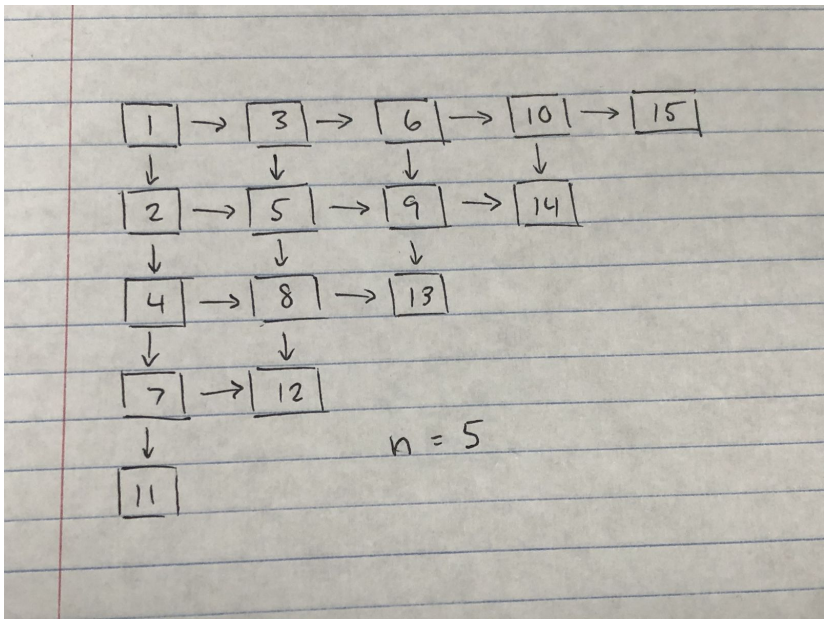
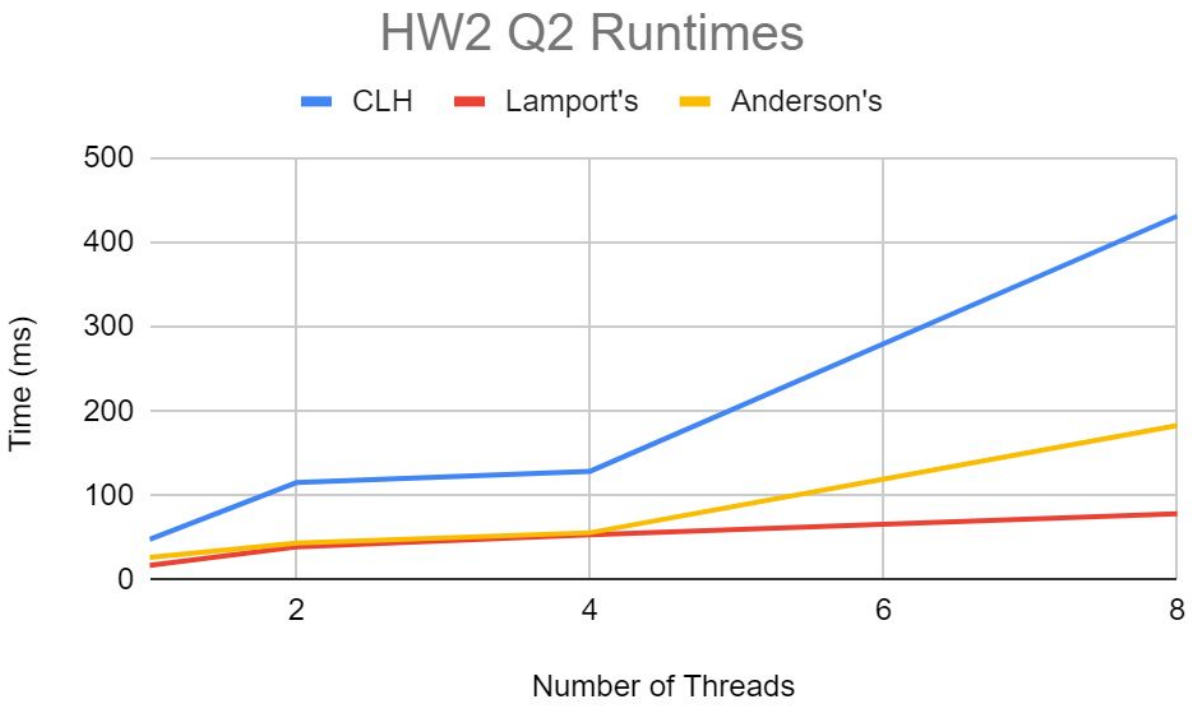
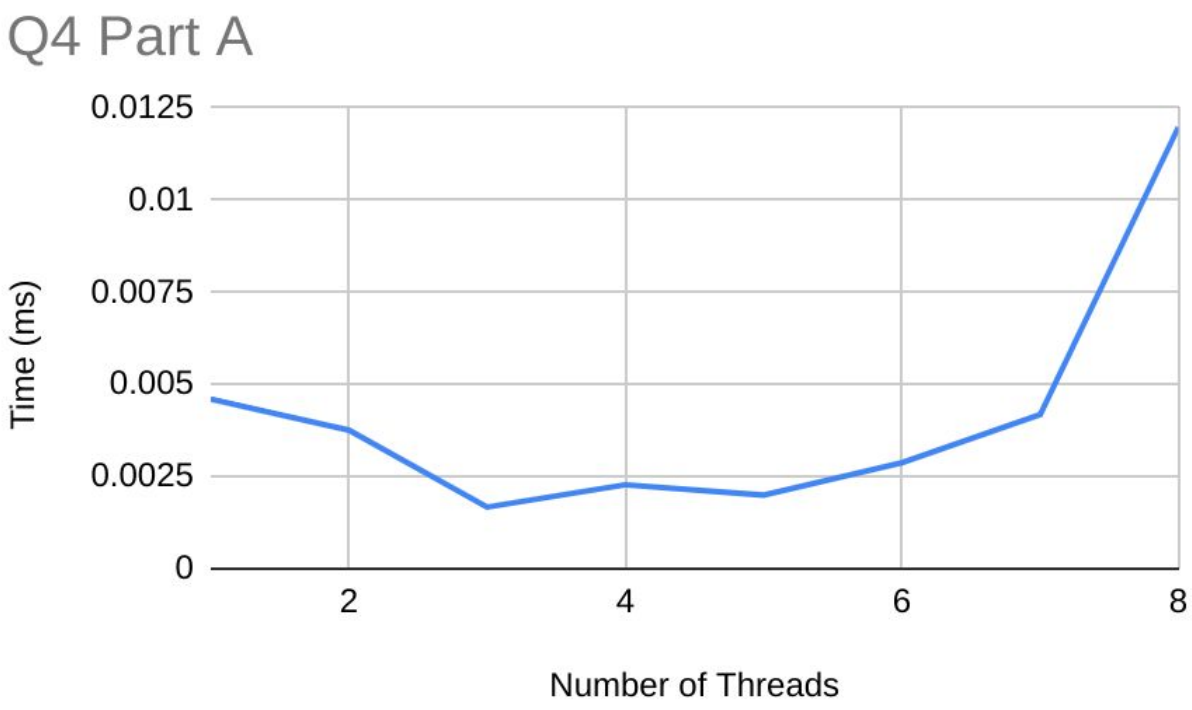
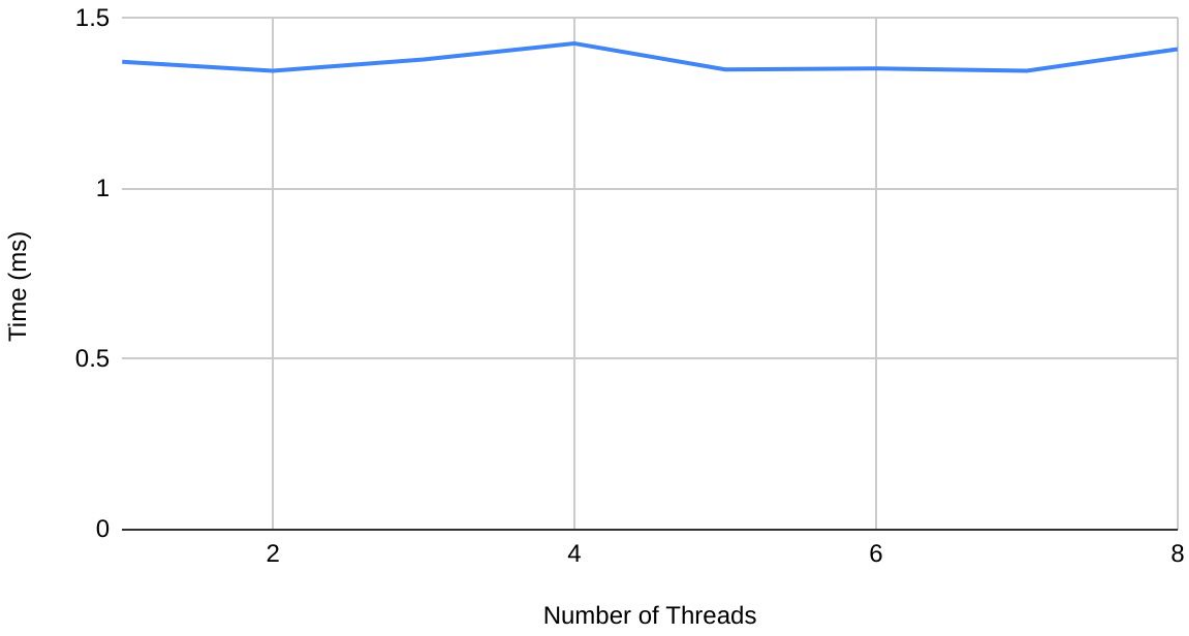
HW 2

Q1) Build an n by n sized grid and place splitters in all the positions above the diagonal going from the south west corner to the north east corner such that there is a total of n * (n + 1) /2 splitters. All processes will enter the grid at splitter (0,0) and begin populating the rest of the grid. Our splitters set the left direction as the fast path. If a given process goes left, then that process is assigned the name of that splitter because only one process can successfully go through the fast path. The processes will keep traveling down or to the right until they go through a fast path and stop.




HW2 Q2 Runtimes
CLH
Lamport's
Anderson's
500
400
300
200
100
0
Time (ms)
2
4
6
8
Number of Threads


Q4 Part A
0.0125
0.01
0.0075
0.005
0.0025
0
Time (ms)
2
4
6
8
Number of Threads


Q4 Part B
1.5
1
0.5
0
Time (ms)
2
4
6
8
Number of Threads