CSCI 4470 - Algorithms Homework 1 Due Thursday September 5, 2024

Answer the questions below. If you do your solution in LaTex, please write your answers in the areas outlined with \Blue{ }. If you write out your solution, please be sure to have the problems in the correct order in your submission. In either case, turn in a single pdf document on eLC.

50 points total

- 1. 10 points 3-5c on page 72
- 2. 10 points 4.3-3 on page 95
- 3. 10 points 6.5-7 on page 177
- 4. 20 points 6-2 on page 179 (d-ary heaps)
- 5. 10 points 7.4-5 on page 198 You do not need to redo the entire expected runtime analysis. Discuss how the analysis changes when the recursion is coarsened.