University of Washington

Department of Computer Science and Engineering

CSE 373

Problem Set 5

Due Fri. Nov. 20, 12:30pm

Reading: Read Chs. 6 and 7 (skip Sections 6.6., 6.7, 6.8, 7.4.1, and 7.7.5).

1. (2 points) Exercise 6.2
2. (2 points) Exercise 6.3   Show only the final resulting tree after the three operations.
3. (2 points) Exercise 6.6   Show the derivation you used to come up with the answer (counting the number of nodes in the figure is *not* the way to do it!).
4. (2 points) Exercise 7.2
5. (3 points) Exercise 7.15
6. (3 points) Exercise 7.18, part a
7. (2 points) Exercise 7.20, part a
8. (4 points) Exercise 7.25. Answer the question for Insertion, Heap, quick, and Merge sorts. Give simple counter examples where appropriate.