CS 430 – FALL 2017 INTRODUCTION TO ALGORITHMS HOMEWORK #3 DUE Fri Oct 6, 11:25am

- 1. (4 points) Exercise 9.1-2
- 2. (4 points) Exercise 9.3-9 (proof required)
- 3. (4 points) Problem 9-1 Largest i numbers in sorted order
- 4. (3 points) Exercise 12.1-5
- 5. (3 points) Exercise 12.2-4
- 6. (4 points) Exercise 12.2-5
- 7. (3 points) Given an arbitrary binary tree T with integer keys stored at the nodes, design an efficient algorithm which determines whether or not T is a binary search tree. What is the time complexity of your algorithm?