

COMP 550, Spring 2015

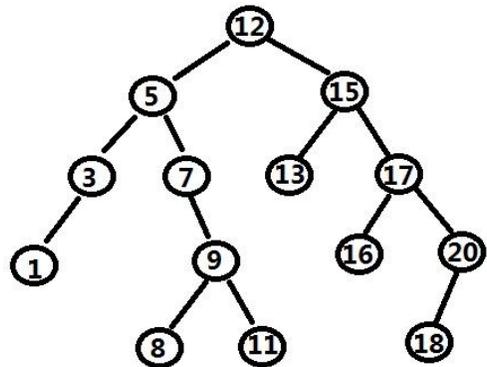
Assignment 5 Part A

DUE: 9:05 Mar 6, 2015

- 1) (15') CLRS Exercise 11.3-4 on page 269 (only need to compute the locations of keys 61, 62, and 63)
- 2) (20') CLRS Exercise 11.4-1 on page 277 (only need to do linear probing and double hashing)
- 3) (10') CLRS Exercise 12.2-3 on page 293

4) (20') You are given a Binary Search Tree (to the right):

- (a) What's the inorder traverse of the tree?
- (b) Draw the tree after deleting "1".
- (c) Draw the tree after further deleting "7".
- (d) Draw the tree after further deleting "15".



**There will be a second part of this HW, regarding red-black tree, which is due later. Please hand them in separately on the due dates given.*

Rules for ALL HWs (in addition to the statements in the syllabus):

You are encouraged to discuss the problem sets and study together in group, but when it comes to formulating/writing solutions you must work alone independently; i.e., you should be able to explain your answer clearly to anyone else. Note that this says discuss in group — copying homework solutions from another student, from the Internet, solution sets of friends who have taken this course or one similar to it previously, or other sources will be considered **cheating** and referred to the student attorney general. You must include a **signed honor statement** with each submission explicitly listing the people you worked with and stating that you completed the assignment in accordance with these rules.