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.