Practice Problems 7
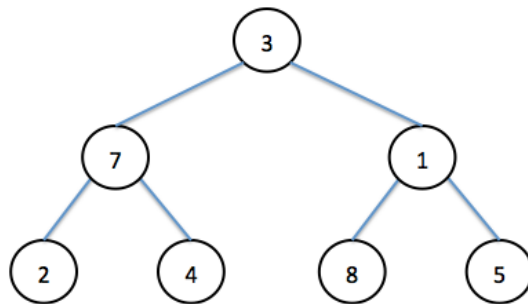

1. Tree Terminology
    a. Name root, children of 7, siblings of 2.
    b. Name all descendants and all ancestors of 7.
    c. Which nodes are leaf nodes and which nodes are interior nodes.
    d. What is the height of the tree?
2. What are the results of pre-order, post-order and inorder traversals?
3. Create a trie of the following words and convert it into leftmost-child-right-sibling representation:
   be, best, bet, hi, hill, his, hip
4. BST
    a. Insert: 10, 20, 30, 15, 8, 19
    b. Delete: 9, 10
5. Heaps
    a. Insert into a max heap: 10, 20, 30, 15, 8, 19
    b. Execute deltemax until the heap is empty