1. According to the C++ standard, for the vector, a call to push_back, pop_back, insert, or erase invalidates (potentially makes stale) all iterators viewing the vector. Why?

2. Give the prefix, infix and postfix expressions corresponding to the tree in the figure below. Make certain to indicate which expression is the prefix, infix and postfix expression.

3. (a) Show the result of inserting in the input order given, 6, 10, 1, 4, 3, 2, 9, 5, 7 into an initially empty binary search tree.
   (b) Show the result of deleting the root per the method discussed in class (in the book as well).

4. Redraw the tree in question 5 below using a child/sibling link implementation.

5. What is the level order traversal of the tree below? Also, show the queue state for the level order traversal of the figure below.