```
Problem 8.1
a)
Stack.app
b)
queue.cpp
Problem 8.2
a)
pseudocode
reverse_linked_list (L)
                               //L is pointer of first node of the linked list and n is #elements
    unreversed = L->next
    L->next = NULL
                               // this creates two linked lists on the original linked list
    while unreversed is not NULL //take one node away from the original linked list every
                                                      //iteration
         temp = unreversed->next
         unreversed->next = L
         L = unreversed
         Unreversed = temp
```

This is in-situ because no extra space is required in the reverse processes. All it does is changing the place the pointers are pointing to.

```
b)
BST.cpp
Void BST::Inorder(BST* root, Node* &tail)
```

Time complexity for in order visit: O(nk) when assume operation is O(k) In this case, operation is a constant, therefore, time complexity of this algorithm is O(n)