1. a) Write down the output of the program above? (10P)

b) How the output of the program would be if
if(node == trailer) part was changed like
if(node->next == trailer). Explain the reason. (30P)

2. Insert the numbers above into a splay tree? (25P)

Solve this question on the back side of the paper

3. Complete removeOrdered() function above that removes an element from a singly linked list. (15P)

4. dequeue() function of a queue is implemented with circularly linked list function remove() whereas enqueue() requires advance() in addition to add(). Explain the reason. (20P)