CSE291 Data Structures Lab

Lab Sheet 6

Singly Linked List

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1. Implement insertion and deletion in a singly linked list.
2. Implement a singly linked list that formulate the following functions
    a. Count the number of nodes in the list.
    b. Returns the sum of elements in the list.
    c. Change the data field of a node with given value.
    d. Move the largest element to end of the list.
    e. To search an element in the linked list.
    f. To concatenate two singly linked lists.
    g. To delete even elements in a linked list.
3. Write a C++ program to reverse a singly linked list using recursion and without recursion.
4. Write a C++ program to split a singly linked list into two lists so that all elements in odd positions are in one list and those in even positions are in another list.
5. Implement a Stack using singly linked list.
6. Implement a Queue using singly linked list.