Assignment 7

1. Write a program to concatenate two singly linked lists into a single linked list.
2. Write a program to split a singly linked list into two equal halves. If the list has an odd number of nodes, the first list should have one extra node.
3. Write a program to reverse nodes in a linked list in groups of K.
4. Write a program to count the number of nodes in a linked list.
5. Write a program to merge K sorted linked lists into a single sorted list.
6. Write a program to create a singly linked list where each node stores a string. Implement functions to add new strings to the end of the list, search for a string, and display all strings in the list.
7. Write a program to find and print the longest string stored in a linked list. Each node of the linked list contains a string.
8. Write a program to reverse each individual string stored in the nodes of a singly linked list. The order of nodes should remain the same, but each string should be reversed.
9. Write a program to count the number of strings in a linked list where each string starts and ends with a vowel.
10. Write a program to concatenate all the strings stored in a singly linked list into a single string and display the result.