1.（插入串列後串接）試撰寫一支程式，串接兩個鏈結的字元串列的程式。此程式應該包含函式concatenate，將兩個表的指標作為引數，並將第二個串列串接到第一個串列。(20%)

**2.**（合併有序串列）編寫一個程式，將兩個有序的整數串列合併為一個有序的整數串列。函式merge應接收指向要合併之每個串列的第一個節點的指標，並傳回指向合併串列的第一個節點的指標。(20%)

**3.**（插入有序串列）試撰寫一支程式插入25個介於0至100的隨機整數至一個鏈結串列。程式必須計算這些元素的總和，以及這些元素的浮點數平均。(30%)

**4.**（建立鏈結串列，然後反轉元素）撰寫一個程式來建立一個具有10個字元的串列，然後以相反的順序複製此串列。[提示: 使用雙向鏈結串列複製到單一鏈結串列] (30%)

1. ***(Concatenating Lists)*** Write a program that concatenates two linked lists of characters. The program should include function concatenate that takes pointers to both lists as arguments and concatenates the second list to the first list. (20%)

2. ***(Merging Ordered Lists)*** Write a program that merges two ordered lists of integers into a single ordered list of integers. Function merge should receive pointers to the first node of each of the lists to be merged and return a pointer to the first node of the merged list. (20%)

3. ***(Inserting into an Ordered List)*** Write a program that inserts 25 random integers from 0 to100 in order in a linked list. The program should calculate the sum of the elements and the floatingpoint average of the elements. (30%)

4. ***(Creating a Linked List, Then Reversing Its Elements)*** Write a program that creates a linked list of 10 characters, then creates a copy of the list in reverse order. [Hint: Using a doubly linked list to store 10 characters ](30%)