HCL TECHNICAL QUESTIONS

1. Write a program to remove the vowels from the input string.
2. Read a string from terminal. Create a linked list to store each character in a linked list.  
   Each node of the linked list must hold character, position in the string and count of  
   occurrences. Write a function to remove the duplicate character in the string.  
   Display the linked list before and after removal of duplicate characters.
3. Write a program to reverse a string using minimum control variable and minimum iteration and with and without temporary variable.
4. Write a program to print pattern of numbers as below:

1  
121  
12321

1. Write code for swapping two variables without using 3rd variable.
2. Make 3 nodes in doubly linked list and delete the 2nd node. Use pointer as ptr. Write the program for same.
3. Write a program to print below pattern.  
   \*  
   \*\*  
   \*\*\*  
   \*\*\*\*
4. Write a function to test if the given set of brackets are balanced or not.

**Input :** {{}}{)([][]

1. Write a program to sort an array containing only 0's and 1's in random order.

**Input :** 1 0 1 1 0 1 0 1 0 0 0 1 0 1

1. Write a recursive function to find the length of the of string.