Day 5 Assignment 4 – Vivek's Class

- 1. Merge 2 Linked List (In Place)
- 2. Analyze running time for Merge Sort and Quick Sort on Linked List
- 3. A linked List is sorted on the basis of Absolute Values, sort it (Order N time and constant space)
- 4. Digits of a number are stored in a linked list, add one to it
- 5. Given an array with elements not in any particular order, arrange elements in the following ways (n log n)
 - a. a > b < c > d < e > f < g > h
 - b. a < b > c < d > e < f > g < h
- 6. Even nodes of a linked list are in ascending order and odd nodes of a linked list are in descending order. Sort the linked list
- 7. Find the minimum difference in an array
- 8. Find the minimum positive difference in an array
- 9. Find the maximum sum of non adjacent subarrays of an array
- 10. Solve the above problem through recursion
- 11. Find the Maximum contagious sum subarray of size K each
- 12. Find the leader (Elements which have no greater element towards their right) in array
- 13. Find 2 elements whose sum is closest to zero
- 14. Given 2 arrays find 2 elements one in each array whose sum is k
- 15. Given an array, a key and k, give an Nlog N approach to find the first closest elements to the key
- 16. Union and Intersection of elements of 2 arrays with and without repetitions