CODESHOWS MODULE - 6

TOPIC :- LINKED LIST

THEORY

1. Introduction-linked-lists
2. Video Tutorials
3. Loop detection algorithms
4. Hare and Tortoise algorithm
5. Doubly Linked List
6. Why quicksort is preferred for arrays and merge sort for linked lists

PROBLEMS

1. Find middle of linked list
2. Intersection of 2 linked list
3. Remove Duplicates from Sorted List
4. Reverse Linked List
5. List Cycle
6. Merge two sorted linked list
7. Palindrome List
8. Reverse Alternate K Nodes

PROBLEMS

9. Remove Nth Node from List End
10. Implement a stack using singly linked list
11. Queue – Linked List Implementation
12. Segregate even and odd positions
13. Sort linked list with 0,1 and 2
14. Add 2 numbers represented by linked list(Set1|Set2)
15. Multiply two numbers represented by Linked Lists

PROBLEMS

16. Flattening of a linked list
17. Reverse linked list in groups
18. Clone a linked list with random and next pointer
19. Reverse a doubly linked list
20. Sort k-sorted doubly linked list
21. Rotate doubly linked list
22. Rotate doubly linked list in groups of given size