DSA SAMPLE QUESTIONS FOR PRACTICE

1	Design algorithm for performing PUSH and POP operations in a Linked STACK.
2	Design algorithm for performing insertion and deletion operations in a Linked QUEUE.
3	Write down the algorithm for insertion of an item at the END of a Single Linked List.
4	Design an algorithm to display all the Info part of Double linked list from Last node to 1st node.
5	Write algorithms for counting the nodes and Finding the sum of all Info Parts of a Double Linked List.
6	What is a Binary Search Tree? Write the steps of algorithm for inserting an element into a BST.
7	Briefly elaborate the memory representation of a binary tree and their types with suitable example.
8	Write down the algorithm for Inorder traversal for a binary tree. When an inorder and preorder sequence of nodes given then how to construct a binary tree.
9	Given an infix expression (A+B/C-D^E*F-G) Find its equivalent postfix notation and then using stack construction an expression tree.
10	Write down all the 3 different recursive traversal methods for traversing nodes of a binary tree.
11	Given a sequence of elements: 70,20,10,30,40,50,60,25,35,45,75,95,10,52,92 Construct an AVL tree by inserting each element.
12	What is Heap Tree and its types? Explain the procedure for construction of Max heap Tree and Min Heap Tree both with suitable example.