

## QUESTION BANK IA2

1. Define Queue. Enlist and explain operations on Queue.
2. Write C program to implement doubly ended queue.
3. Write an algorithm to implement a singly linked list that performs the following operations.
  1. Insert node in the beginning
  2. Insert node in the end
  3. Display the linked list element
4. Compare between singly and doubly linked list
5. Enlist various types of linked list.
6. Write a C program to implement a doubly linked list with methods insert, delete, search.
7. What are the Advantages of Linked list over Arrays.
8. Define traversal of Binary tree. Explain different types of traversals of binary tree with example.
9. Write a short note on : Expression tree.
10. Consider the following list of numbers:  
18,25,16,36,8,29,45,12,32,19. Create Binary search Tree using these numbers.
11. Explain Huffman coding with suitable example.
12. Design Huffman tree for word "CONSTRUCTION". Also write the code for each symbol.
13. Discuss practical applications of Tree.