1. Develop a program to sort the following data using merge sort and quick sort.
   15, 25, 3, 21, 96, 88, 7, 54, 27, 63

2. Develop a program to sort the following data using divide and conquer method with O(n log n) all the cases. 15, 25, 3, 21, 96, 88, 7, 54, 27, 63

3. Construct a program to find an element from the given list using divide and conquer method.

4. Develop a program to sort the following data using divide and conquer method without using pivot element. 15, 25, 3, 21, 96, 88, 7, 54, 27, 63

5. Develop a program to sort the following data using divide and conquer method using pivot element. 15, 25, 3, 21, 96, 88, 7, 54, 27, 63

6. Develop a program to sort the following data using partition exchange sort.
   15, 25, 3, 21, 96, 88, 7, 54, 27, 63

7. Build a program to implement Stack operations on the following data.
   Insert elements into the following data 45, 67,89,90,78 then delete two elements, use necessary conditions.

8. Develop a program to implement LIFO operation on the following data. Insert elements into the following data 45, 67,89,90,78 then delete two elements, use necessary conditions.

9. Implement stack operations using single linked list.

10. Implement queue operations using single linked list.

11. Develop a program to convert the following infix equation to postfix equation. (a*(b+c)/c).

12. Construct program to implement single linked list for the data members (number, amount) and implement create insert and display operations.

13. Develop a program to implement single linked list for the data members (rno, total marks) then implement create insert and display operations.

14. Develop a program to create double linked list for the data members (number, amount) and display the contents of linked list.

15. Develop a program to create double linked list for the data members (rno, total marks) and display content of linked list.

16. Develop a program to perform following single linked list operation
    i. Create ii. Insert iii. Display.

17. Develop a program to create a single linked list then store the some of the list elements as last node then display the content.

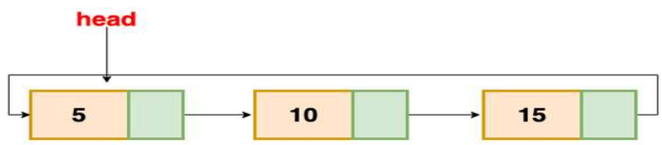
18. Create a single linked list then display both forward list and reverse order list.

19. Create a single linked list with character values then display the content of the list in reverse order.

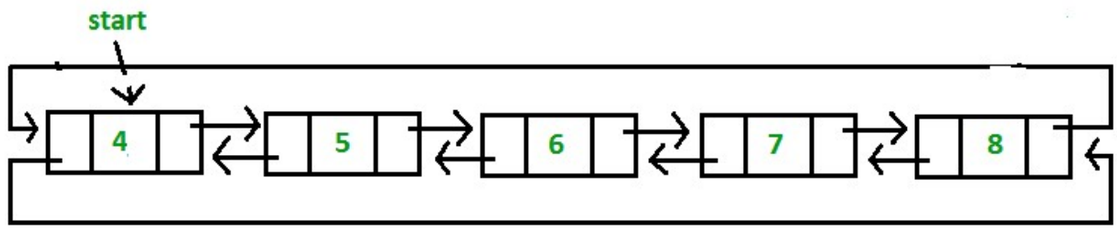
20. Write a program to create single linked list then display the content of the list and sum of all the list values.

21. Create a list using forward pointer and back ward pointer then display the content of the list.

22. Implement the following list then display the list elements.



23. Implement the following list then display the list elements.



24. Write a program to search an element from given unsorted data.

25. Write a program to search an element from the given sorted data. (use only best time complexity algorithm).

26. Develop a program to perform push() and pop() operations on appropriated data structures then write the appropriate conditions. Observe all the inputs and outputs as display function.

27. Develop a program to perform dequeue() and enqueue() operations on appropriated data structures then write the appropriate conditions. Observe all the inputs and outputs as display function.

28. Write program to evaluate the given postfix expression using stacks.