Data Structures Learning Sequence

[Algorithm + implementation in C]

Remember:

1. First google the algorithm and Understand it deeply and write it on copy.

2. Then write program in C language.

Note:- Use passing argument and Return, avoid heavy code in main()

1. Introduction to data structures
2. Arrays
    a. Linear Search
    b. Binary Search
    c. Insertion and Deletion elements
    d. Bubble Sort, Insertion Sort, Selection Sort
    e. Merge Sort
3. Recursion
    a. Factorial
    b. Fibonacci Series
4. Stacks
    a. POP & PUSH Operations
    b. Infix Notation
    c. Polish Notation
    d. Reverse Polish Notation
    e. Quick Sort
    f. Tower of Hanoi
5. Queues
    a. Intro. To LIFO & FIFO
    b. Insertion in queue
    c. Deletion from queue
6. Linked List
    a. Introduction to Linked List, diff b/w Array and Linked List
    b. Append Node in Linked list
    c. Traversing Linked List
    d. Search & Delete the Node
    e. Searching in Unsorted Linked List
    f. Searching in Sorted Linked List
    g. Insert Node at Beginning
    h. Insert node after given node
    i. Insert in Sorted Linked List
    j. Header Linked List
        i. Grounded header and Circular header
    k. Two Way Linked List
        i. Append node
        ii. Traversing it
        iii. Searching element
        iv. Deletion of node
7. Trees
8. Graphs