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| 1 | A | ●Write a program to insert/delete in linear array at specific position. |
|  | B | ●Write a program to remove duplicate elements from liner array. |
|  | C | ●Write a program to read 10 integers in an array. Sort them out on the basis of number of digits in each element. |
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| 2 | A | ●Demonstrate the concept of Call by value and Call by Reference. |
|  | B | ●Write a program to prints array elements in reverse orders applying pointers |
|  | C | ●Write program to implement stack and simple queue using array |
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| 3 | A | ●Write a program for stack using array for the following operations: Push, Pop, Peek and IsEmpty |
|  | B | ●Write a program for queue using array for the following operations: Enqueue, Dequeue, IsEmpty, IsFull. |
|  | C | ●Write a program for circular queue using array for the following operations: Enqueue, Dequeue, IsEmpty, IsFull. |
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| 4 | A | ●Write a program for single linked list for the following operations:  1. Count the number of nodes in a given linked list  2. Delete the desired node from linked list  3. Insert the new node after the desired node into the linked list  4. Create a new list by reversing the list  5. Concatenates two linked list |
|  | B | ●Write a program for stack using linked list for the following operations: Push, Pop, Peek and IsEmpty. |
|  | C | ●Write a program for queue using linked list for the following operations: Enqueue, Dequeue, IsEmpty |
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| 5 | A | Write a program of conversion of an expression from infix to Postfix, Prefix. |
|  | B | Write a program to evaluate postfix expression. |
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| 6 | A | ●Write a program to implement doubly linked list for the following operations:  1. Insert a new node after the desired node  2. Delete the desired note  3. Display the nodes of doubly linked list |
|  | B | ●Write a program to implement circular doubly linked list for the following operations:  1. Insert a new node after the desired node  2. Delete the desired note  3. Display the nodes of doubly linked list |
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| 7 | A | ●Write a program to construct binary search tree. |
|  | B | ●Write a program to traverse binary search tree. |
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| 8 | A | ●Write a program to traverse binary search tree. |
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| 9 | A | ●Write a program to demonstrate DFS and BFS. |
|  | B | ●Write a program for given a directed graph, and check whether the graph contains a cycle or not. It should print true if the given graph contains at least one cycle, else it should print false. |
|  | C | ●Write a program to implement minimum spanning tree algorithm |
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| 10 | A | ●Write a program to implement binary search. |
|  | B | ●Write a program to implement: Bubble sort, Radix sort, Selection |
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| 11 | A | ●Write a program to implement: Bubble sort, Radix sort, Selection |
|  | B | ●Write a program to implement the mechanism to handle hash collision by: 1. Separate chaining 2. Open addressing |
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