

Introduction to Data Structures

Data Structures and its Real life Applications

Array In Data Structure

Introduction to Array

Inserting An Element In Array

Searching An Element In Array

Removing An Element In Array

Remove Duplicates from the Sorted Array

Rotate an Array by K Positions [Normal Method]

Rotate an Array by K Positions [Reversal Method]

Reverse individual words

Reverse a string without affecting special characters

Linked List

Linked list Basics

Inserting a node at the beginning of a linked list

Inserting a node at the end of Linked list

Deleting a node in linked list

Why do we use **head in deleteNode function?

Searching a node in singly linked list

Linked list vs Array

Find the Middle Node of the Linked List [Using Loop]

Find the Middle Node of the Linked List [Using Slow & Fast Pointers] PREVIEW

Get Nth Node of the Linked List

Print the Linked List in Reverse Order

Get Nth node from the last

Detect the loop in the linked list

Reverse the linked list

Doubly Linked List

Introduction to Doubly linked list

Insert a node at beginning of a doubly linked list
Insert a node at end of a doubly linked list
Search a node in doubly linked list
Delete a node in a doubly linked list

Circular Linked List

Circular Linked list Basics
Inserting a node in a beginning of circular linked list
Inserting a node in the end of circular linked list
Search a node in circular linked list
Deleting a node in circular linked list

Stack

Stack using array and application
Stack using linked list
Implement two stacks in an array[Method 1]
Implement two stacks in an array[Method 2]
Reverse a string using Stack
Check if the given expression is balanced or not
Introduction to Infix Prefix Postfix expressions
Evaluate the postfix expression using Stack

Queue

Queue using array and application
Queue using linked list

Binary Search Tree

Binary Tree basics
Need for Binary Search Tree
Binary Search Tree Basics and Node creation
Binary Recursion
Insert a node in Binary Search Tree
Inorder traversal

Search a node in Binary Search Tree
Delete a node in Binary Search Tree
Find Minimum Value in BST
Find Sizeof() BST
Find Maximum Depth or Height of BST

Graphs

Graph Basics Degree of Vertex
Adjacency matrix representation of graph
Implementation of Adjacency Matrix
Adjacency list representation of graph
Implementation of Adjacency list
Adjacency matrix Vs Adjacency list representation

Binary Heaps

Why & What is Binary heap (Priority Queue)
Constructing Binary Heap - Heapify
Delete a Maximum element in Binary Heap