

DATA STRUCTURE USING C



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OVERVIEW OF C

- i. Basic concept of c
- ii. Function
- iii. Array.
- iv. Structure & Union
- v. String
- vi. Pointer

Introduction to algorithms & Data structure

- i. Algorithms.
- ii. Introduction to Data Structure
- iii. Types of Data Structure
- iv. Data Structure Operations

Arrays

- i. Introduction
- ii. Types of Arrays
- iii. Insertion and Deletion
- iv. Sorting and Searching

Sorting and Searching

- i. Sorting Techniques
- ii. Searching Techniques.

Linked List

- i. Introduction
- ii. Implementation
- iii. Types of Linked List.
- iv. Circular Linked List
- v. Doubly Linked List



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Stack

- i. Introduction.
- ii. Stack Operations.
- iii. Stack Implementations

Queue

- i. Introduction
- ii. Queue Implementation and Operation
- iii. Circular Queue
- iv. Priority Queue
- v. Double-Ended Queue

Trees

- i. Basic Concept
- ii. Binary Tree & its Representation
- iii. Binary tree Traversal
- iv. BST
- v. Tree Variants

Graphs

- i. Graph Terminology
- ii. Implementation
- iii. Algorithm
- iv. Graph Traversal

Application of Data Structure

- i. Application of Stacks
- ii. Application of Queue
- iii. Application of Linked List
- iv. Application of Tree
- v. Application of Graph



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