Mindluster Platform

About the course DSA Notes

A data structure is a named location that can be used to store and organize data. And, an algorithm is a collection of steps to solve a particular problem. Learning data structures and algorithms allow us to write efficient and optimized computer programs .

Programming Category's Courses

Course Lesson(92)

Lesson 1 : **Introduction to Data Structures Algorithms**

Lesson 2 : **Time Complexity and Big O Notation with notes**

Lesson 3 : **Asymptotic Notations Big O Big Omega and Big Theta Explained With Notes**

Lesson 4 : **Best Case Worst Case and Average Case Analysis of an Algorithm With Notes**

Lesson 5 : **How to Calculate Time Complexity of an Algorithm Solved Questions With Notes**

Lesson 6 : **Arrays and Abstract Data Type in Data Structure With Notes**

Lesson 7 : **Array as An Abstract Data Type in Data Structures With Notes**

Lesson 8 : **Implementing Array as an Abstract Data Type in C Language**

Lesson 9 : **Operations on Arrays in Data Structures Traversal Insertion Deletion and Searching**

Lesson 10 : **Coding Insertion Operation in Array in Data Structures in C language**

Lesson 11 : **Coding Deletion Operation in Array Using C Language With Notes**

Lesson 12 : **Linear Vs Binary Search Code in C Language With Notes**

Lesson 13 : **Introduction to Linked List in Data Structures With Notes**

Lesson 14 : **Linked List Data Structure Creation and Traversal in C Language**

Lesson 15 : **Insertion of a Node in a Linked List Data Structure**

Lesson 16 : **Insertion in a Linked List in C Language**

Lesson 17 : **Deletion in a Linked List | Deleting a node from Linked List Data Structure**

Lesson 18 :
Delete a Node from Linked List C Code For Deletion From Beginning End Specified Position Key

Lesson 19 : **Circular Linked List and Operations in Data Structures With Notes**

Lesson 20 : **Circular Linked Lists Operations in C Language**

Lesson 21 : **Doubly Linked Lists Explained With Code in C Language**

Lesson 22 : **Introduction to Stack in Data Structures**

Lesson 23 : **Implementing Stack Using Array in Data Structures**

Lesson 24 : **C Code For Implementing Stack Using Array in Data Structures**

Lesson 25 : **Push Pop and Other Operations in Stack Implemented Using an Array**

Lesson 26 :
Coding Push Pop isEmpty and isFull Operations in Stack Using an Array| C Code For Stack

Lesson 27 : **Peek Operation in Stack Using Arrays With C Code Explanation**

Lesson 28 : **stackTop stackBottom Time Complexity of Operations in Stack Using Arrays**

Lesson 29 : **How to Implement Stack Using Linked List**

Lesson 30 : **Implementing all the Stack Operations using Linked List With Code in C**

Lesson 31 : **peek stackTop and Other Operations on Stack Using Linked List with C Code**

Lesson 32 : **Parenthesis Matching Problem Using Stack Data Structure Applications of Stack**

Lesson 33 : **Parenthesis Checking Using Stack in C Language**

Lesson 34 : **Multiple Parenthesis Matching Using Stack with C Code**

Lesson 35 : **Infix Prefix and Postfix Expressions**

Lesson 36 : **Infix To Postfix Using Stack**

Lesson 37 : **Coding Infix to Postfix in C using Stack**

Lesson 38 : **Queue Data Structure in Hindi**

Lesson 39 : **Queue Implementation Array Implementation of Queue in Data Structure**

Lesson 40 : **Array implementation of Queue and its Operations in Data Structure**

Lesson 41 : **C Code For Queue and its Operations Using Arrays in Data Structure**

Lesson 42 : **Introduction to Circular Queue in Data Structures**

Lesson 43 : **enqueue dequeue other Operations on Circular Queue**

Lesson 44 : **C Code For Circular Queue Operations on Circular Queue in Hindi**

Lesson 45 : **Queue Using Linked Lists**

Lesson 46 : **Implementing Queue Using Linked List in C Language With Code**

Lesson 47 : **Double Ended Queue in Data Structure DE Queue Explained**

Lesson 48 : **Introduction to Sorting Algorithms**

Lesson 49 : **Criteria For Analysis of Sorting Algorithms**

Lesson 50 : **Bubble Sort Algorithm in Hindi**

Lesson 51 : **Bubble Sort Program in C**

Lesson 52 : **Insertion Sort Algorithm in Hindi**

Lesson 53 : **Insertion Sort in C Language With Explanation**

Lesson 54 : **Selection Sort Algorithm**

Lesson 55 : **Selection Sort Program in C**

Lesson 56 : **QuickSort Algorithm in Hindi With Code in C**

Lesson 57 : **Analysis of QuickSort Sorting Algorithm**

Lesson 58 : **MergeSort Sorting Algorithm in Hindi**

Lesson 59 : **MergeSort Source Code in C Helpful Explanation**

Lesson 60 : **Count Sort Algorithm**

Lesson 61 : **Introduction to Trees**

Lesson 62 : **What is a Binary Tree**

Lesson 63 : **Types of Binary Trees**

Lesson 64 : **Representation of a Binary Tree**

Lesson 65 : **Linked Representation Of Binary Tree in C**

Lesson 66 : **Traversal in Binary Tree InOrder PostOrder and PreOrder Traversals**

Lesson 67 : **Preorder Traversal in a Binary Tree With C Code**

Lesson 68 : **PostOrder Traversal in a Binary Tree With C Code**

Lesson 69 : **InOrder Traversal in a Binary Tree With C Code**

Lesson 70 : **Best Trick To Find PreOrder InOrder PostOrder Traversal**

Lesson 71 : **Binary Search Trees Introduction Properties**

Lesson 72 : **Checking if a binary tree is a binary search tree or not**

Lesson 73 : **Searching in a Binary Search Trees Search Operation**

Lesson 74 : **C Code For Searching in a BST**

Lesson 75 : **Iterative Search in a Binary Search Tree**

Lesson 76 : **Insertion in a Binary Search Tree**

Lesson 77 : **Deletion in a Binary Search Tree**

Lesson 78 : **C Code For Deletion in a Binary Search Tree**

Lesson 79 : **AVL Trees Introduction**

Lesson 80 : **Insertion and Rotation in AVL Tree**

Lesson 81 : **AVL Trees LL LR RL and RR rotations**

Lesson 82 : **C Code For AVL Tree Insertion Rotation LL RR LR RL Rotation**

Lesson 83 : **Introduction to Graphs | Graph Data Structure**

Lesson 84 : **Representation of Graphs Adjacency List Adjacency Matrix Other Representations**

Lesson 85 : **Graph traversal Graph traversal algorithms**

Lesson 86 : **Breadth First Search BFS Graph Traversal in Data Structures**

Lesson 87 : **BFS Implementation in C | C Code For Breadth First Search**

Lesson 88 : **Depth First Search DFS Graph Traversal in Data Structures**

Lesson 89 : **DFS Implementation in C | C Code For Depth First Search**

Lesson 90 : **Spanning Trees maximum no of possible spanning trees for complete graphs**

Lesson 91 : **Calculating Spanning tree Cost Minimum Spanning Tree**

Lesson 92 : **Prims Minimum Spanning Tree Algorithm Step by Step with examples**

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