Mindluster Platform

About the course What is Data Structure by C++

Course Presenter : Fahad Hussain

Data Structure using C++ from Scratch | Data Structure Full Course C++ 2024: In this course, we will learn about data structures using C++ from scratch. Explore fundamental concepts like arrays, linked lists, stacks, queues, and trees, and understand their implementation and applications in C++. This comprehensive course is designed to build a solid foundation in data structures for effective problem-solving and algorithm development. Fahad Hussain

Programming Category's Courses

Course Lesson(46)

Lesson 1 : **Tutorial 00 What is Data Structure Course Outlines and its Prerequisite**

Lesson 2 : **Tutorial 01 Static and Dynamic Memory Allocation in C Call Pass by Value and Reference in C**

Lesson 3 : **Tutorial 02 Abstract Data Type in Data Structure C**

Lesson 4 : **Tutorial 03 Rule of Five Three and Zero in C**

Lesson 5 : **Tutorial 04 Part I 1D Arrays and 2D Array in Data Structure using C**

Lesson 6 : **Tutorial 05 Part II 1D and 2D Array Operations Insertion Deletion Traversing and Display in Array**

Lesson 7 : **Tutorial 06 Part III Jagged Array using C in Data Structure**

Lesson 8 : **Tutorial 07 Part I Time Complexity of Algorithm**

Lesson 9 : **Tutorial 08 Part II Space Complexity of Algorithms**

Lesson 10 : **Tutorial 09 Part I Singly Linked List Data Structure How Singly Linked List Work**

Lesson 11 : **Tutorial 10 Part II Singly Linked List all Operations Insertion Deletion Traversing Searching**

Lesson 12 : **Tutorial 11 Part III Doubly Linked List all Operations Insertion Deletion Traversing Searching**

Lesson 13 : **Tutorial 12 Part IV Singly Circular Linked List Doubly Circular Linked List with All Operations**

Lesson 14 : **Tutorial 13 Recursion and its types Tail Non Tail Direct Indirect Recursion**

Lesson 15 : **Tutorial 14 N Queen Problem using Recursion and Backtracking with C Code**

Lesson 16 : **Tutorial 15 Rat in a Maze Problem Backtracking and Recursion using C**

Lesson 17 : **Tutorial 16 Stack Data Structure Complete Basic STL and Implementation of Stack using c**

Lesson 18 : **Tutorial 17 Tower of Hanoi Using Recursion C Stack Application TOH**

Lesson 19 :
Tutorial 18 Infix Prefix Postfix in Data Structure using C Stack Application Equation Parsing

Lesson 20 : **Tutorial 19 Sudoku problem using Backtracking and Recursion in Data Structure**

Lesson 21 : **Tutorial 20 Part 01 Queue Data Structure Implementations using Array Linked List STD**

Lesson 22 : **Tutorial 21 Part II Double Ended Queue C Deque in C Standard Template Library STL**

Lesson 23 : **Tutorial 22 Part 03 Circular Queue in C Standard Library to make Circular Queue in C**

Lesson 24 :
Tutorial 23 Sorting Concepts Explained Internal vs External Comparisons Swapping Recursion More

Lesson 25 : **Tutorial 24 Insertion Sort in C Easy Tutorial for Beginners with Code Walkthrough**

Lesson 26 : **Tutorial 25 Selection Sort using C Essential Sorting Algorithm Explained**

Lesson 27 : **Tutorial 26 Bubble Sort using C Essential Sorting Algorithm Explained**

Lesson 28 : **Tutorial 27 Merge Sort Explained in C Merge Sort Algorithm Explained**

Lesson 29 :
Tutorial 28 Shell Sort Implementation in C Shell Sort Algorithm Visualization Explanation

Lesson 30 : **Tutorial 29 Quick Sort in C The Fastest Sorting Algorithm Explained**

Lesson 31 : **Tutorial 30 Radix Sort in Data Structure using C Implementation**

Lesson 32 : **Tutorial 31 Counting Sort Algorithm Count Sort Implementation using C**

Lesson 33 : **Tutorial 32 Bucket Sort Algorithm Radix Sort Implementation using C**

Lesson 34 : **Tutorial 33 All Sorting Algorithm of Comparison and Non Comparison based Complexity**

Lesson 35 : **Tutorial 34 Linear Search Data Structure using C Searching Algorithm Explained**

Lesson 36 : **Tutorial 35 Binary Search Data Structure using C Searching Algorithm Explained**

Lesson 37 : **Tutorial 36 Meta Binary Search One Sided Binary Search Data Structure using C**

Lesson 38 : **Tutorial 37 Interpolation Search using C Exploring Searching Data Structures**

Lesson 39 : **Tutorial 38 Jump Search Algorithm Explained in C Exploring Searching Data Structures**

Lesson 40 :
Tutorial 39 Exponential Search Algorithm Explained in C Exploring Searching Data Structures

Lesson 41 :
Tutorial 40 Ternary Search Algorithm Explained in C Exploring Searching Data Structures

Lesson 42 :
Tutorial 41 What is Tree Data Structure and its Terminologies Binary Tree and its Types

Lesson 43 :
Tutorial 42 Depth First Traversal Inorder Preorder Postorder and Breadth First Traversal

Lesson 44 : **Tutorial 43 Binary Tree C Binary Tree Operations insertion deletion traversal**

Lesson 45 : **Tutorial 44 Binary Search Tree BST Operations Insertion Deletion Searching**

Lesson 46 : **Tutorial 45 Heap Data Structure Priority Queue Min and Max Heap using C**

Related courses

React Projects Workshops

Node js back end JavaScript

Python programming language

Social Network Theme UI With Sass

Full Stack React Django

Build a Node js App With Sequelize



for Business Contact
business@mindluster.com