Mindluster Platform

About the course Data Structures and Algorithms | C

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(58)

Lesson 1 : **Linked List Introduction**

Lesson 2 : **Linked List Insertion at beginning of List**

Lesson 3 : **Linked List Print Elements of List C**

Lesson 4 : **Linked List Insertion at End**

Lesson 5 : **Linked List Insertion at k th position C**

Lesson 6 : **Reverse Linked List Iteratively**

Lesson 7 : **Reverse Linked List Recursively**

Lesson 8 : **Detect Loop in Linked List | Linked List Cycle | Floyd s algorithm | C**

Lesson 9 : **Find Length of Loop in Linked List | C**

Lesson 10 : **Find the middle of Linked List | C**

Lesson 11 : **Find k th node from end in Linked List | C**

Lesson 12 : **Find beginning of cycle in Linked List | Floyd s algorithm**

Lesson 13 : **Why Floyd s Cycle Detection Algorithm Works | Cycle detection in Linked List**

Lesson 14 : **Remove Loop from Linked List | Floyd s Algorithm**

Lesson 15 : **Check if Linked List is Palindrome | Programming Interview**

Lesson 16 : **Swap nodes in Linked List without Copy | Programming Interview | C**

Lesson 17 :
Dynamic Programming Introduction | Data Structures and Algorithms | Programming Interview

Lesson 18 : **Dynamic Programming | Tabulation vs Memoization**

Lesson 19 : **Dynamic Programming | Fibonacci Numbers**

Lesson 20 : **Dynamic Programming | Longest Common Subsequence LCS | Part 1**

Lesson 21 : **Dynamic Programming | Longest Common Subsequence LCS | Part 2 | C code**

Lesson 22 : **Dynamic Programming | Print Longest Common Subsequence LCS**

Lesson 23 : **UGLY Numbers Dynamic Programming | LeetCode 264 | Ugly Number ii**

Lesson 24 : **Dynamic Programming | Number of ways to Score R runs in B balls**

Lesson 25 : **Egg Dropping Puzzle | Dynamic Programming | Part 1**

Lesson 26 : **Egg Dropping Puzzle C Code | Dynamic Programming | Part 2**

Lesson 27 : **ROD Cutting Problem | Dynamic Programming**

Lesson 28 : **Coin Change | Dynamic Programming | Programming Interview**

Lesson 29 : **Google Coding Interview Question and Answer 1 Zero Sum Triplets**

Lesson 30 : **Google Coding Interview Question and Answer 2 Subarray with given Sum**

Lesson 31 : **Google Coding Interview Question and Answer 3 Flood fill Algorithm | Paint**

Lesson 32 : **Longest Increasing Subsequence Dynamic Programming**

Lesson 33 : **0 1 Knapsack Problem Dynamic Programming**

Lesson 34 : **Introduction to Doubly Linked List | Data structures and Algorithms**

Lesson 35 : **Data Structures and Algorithms | Programming Interviews**

Lesson 36 : **Rabin Karp String Matching Algorithm**

Lesson 37 : **What are Data Structures and Algorithms**

Lesson 38 : **Analysis of Algorithms | Running Time Analysis**

Lesson 39 : **Asymptotic Analysis of Algorithms | Members Only**

Lesson 40 : **Big O Notation | Asymptotic Analysis**

Lesson 41 : **Big Omega Notation | Asymptotic Analysis**

Lesson 42 : **Big Theta Notation | Asymptotic Analysis**

Lesson 43 : **Build Array from Permutation | LeetCode 1920 | C**

Lesson 44 : **Concatenation of Array | LeetCode 1929 | C**

Lesson 45 : **Dynamic Arrays | Introduction | Resizable Arrays**

Lesson 46 : **2D Arrays | Multidimensional Arrays**

Lesson 47 : **Linked List | Data Structure**

Lesson 48 : **Inserting a Node in Linked List || Explanation with Code**

Lesson 49 : **Linked List || Find kth node from end || Two Pointers**

Lesson 50 : **Find Middle of Linked List || Two Pointers**

Lesson 51 : **First Node of Loop in Linked List || Cycle detection || Floyd s Algorithm**

Lesson 52 : **Stack data structure || Stacks || LIFO**

Lesson 53 : **Queue || FIFO**

Lesson 54 : **Binary Heaps Introduction**

Lesson 55 : **Binary Heap Representation**

Lesson 56 : **Binary Heap Implementation || Implement a Min Heap**

Lesson 57 : **Build Heap Time Complexity || Build Heap from Array || Build Heap in O n**

Lesson 58 : **Merge k Sorted Lists | LeetCode 23 | 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



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