Mindluster Platform

About the course Design and Analysis of algorithms DAA

Design and Analysis of Algorithm help to design the algorithms for solving different types of problems in Computer Science. It also helps to design and analyze the logic on how the program will work before developing the actual code for a program .

Programming Category's Courses

Course Lesson(55)

Lesson 1 : **Algorithm introduction | Design Algorithms | Lec 1 | Bhanu Priya**

Lesson 2 : **space complexity | Design Algorithms | Lec 2 | Bhanu Priya**

Lesson 3 : **time complexity | Algorithms Design and Analysis**

Lesson 4 :
pseudo code | Sequence Selection logic | Part 1 2 | Design Algorithms | Lec 4 | Bhanu Priya

Lesson 5 : **pseudo code | Iteration logic | Part 2 2 | Design Algorithms | Lec 5 | Bhanu Priya**

Lesson 6 : **Asymptotic notation | Design Algorithms | Lec 6 | Bhanu Priya**

Lesson 7 : **asymptotic growth | Design Algorithms | Lec 7 | Bhanu Priya**

Lesson 8 : **Asymptotic notation | Theta notation | Design Algorithms | Lec 8 | Bhanu Priya**

Lesson 9 : **Asymptotic notation | Big O notation | Design Algorithms | Lec 9 | Bhanu Priya**

Lesson 10 :
Asymptotic notation | Big omega little oh omega | Design Algorithms | Lec 10 | Bhanu Priya

Lesson 11 : **divide and conquer algorithm | Design Algorithms | Lec 11 | Bhanu Priya**

Lesson 12 : **Binary Search Algorithm | Design Algorithms | Lec 12 | Bhanu Priya**

Lesson 13 : **Binary Search examples | Successful search | Design Algorithms | Lec 13 | Bhanu Priya**

Lesson 14 :
Binary Search Examples | Unsuccessful search | Design Algorithms | Lec 14 | Bhanu Priya

Lesson 15 : **merge sort algorithm**

Lesson 16 : **Merge sort example | Design Algorithms | Lec 16 | Bhanu Priya**

Lesson 17 : **Quicksort algorithm | Partition | Part 1 2 | Design Algorithms | Lec 17 | Bhanu Priya**

Lesson 18 : **Quicksort algorithm| Example | Part 2 2 | Design Algorithms | Lec 18 | Bhanu Priya**

Lesson 19 : **Matrices multiplication | basic | Design Algorithms | Lec 19 | Bhanu Priya**

Lesson 20 : **Divide and Conquer | Matrix Multiplication | Design Algorithms | Lec 20 | Bhanu Priya**

Lesson 21 : **2.9 Strassens Matrix Multiplication**

Lesson 22 : **Binary Search Tree | BST | Design Algorithms | Lec 22 | Bhanu Priya**

Lesson 23 : **Binary Search Tree traversal | Design Algorithms | Lec 23 | Bhanu Priya**

Lesson 24 : **BST traversal | In Pre Post order | Examples | Design Algorithms | Lec 24 | Bhanu Priya**

Lesson 25 : **Spanning Tree | Design Algorithms | Lec 25 | Bhanu Priya**

Lesson 26 :
Prim s algorithm | Minimum Spanning tree MST | Design Algorithms | Lec 26 | Bhanu Priya

Lesson 27 :
Krushkal s algorithm | Minimum Spanning Tree MST | Design Algorithms | Lec 27 | Bhanu Priya

Lesson 28 :
Prim s and Krushkal s algorithm | MST | Differences | Design Algorithms | Lec 28 | Bhanu Priya

Lesson 29 : **Breadth First Search algorithm | BFS | Design Algorithms | Lec 29 | Bhanu Priya**

Lesson 30 : **Breadth First Search | BFS examples | Design Algorithms | Lec 30 | Bhanu Priya**

Lesson 31 : **Depth First Search | DFS | Graph traversal | Design Algorithms | Lec 31 | Bhanu Priya**

Lesson 32 :
Depth First Search | DFS | Examples | Graph traversal | Design Algorithms | Lec 32 | Bhanu Priya

Lesson 33 : **AND OR graph | Design Algorithms | Lec 33 | Bhanu Priya**

Lesson 34 : **Connected Components | Graph | Design Algorithms | Lec 34 | Bhanu Priya**

Lesson 35 : **Biconnected Components| Graph | Design Algorithms | Lec 35 | Bhanu Priya**

Lesson 36 : **Dijkstras Shortest Path Algorithm Explained | With Example**

Lesson 37 : **bellman ford shortest path algorithm | DAA |**

Lesson 38 : **Greedy Method | Design Algorithms | Lec 38 | Bhanu Priya**

Lesson 39 :
Job sequencing problem with deadline | Greedy Method | Design Algorithms | Lec 39 | Bhanu Priya

Lesson 40 :
Minimum Cost Spanning Tree | Krushkal s Prim s | Design Algorithms | Lec 40 | Bhanu Priya

Lesson 41 :
Minimum Cost Spanning Tree | Example | Krushkal s Prim s | Design Algorithms | Lec 41 | Bhanu Priya

Lesson 42 : **Dynamic programming | Design Algorithms | Lec 42 | Bhanu Priya**

Lesson 43 :
Matrix Chain Multiplication | Dynamic Programming | Design Algorithms | Lec 43 | Bhanu Priya

Lesson 44 : **matrix chained multiplication | Dynamic programming |examples |**

Lesson 45 :
All pairs Shortest Path Algorithm | Dynamic programming | Design Algorithms | Lec 45 | Bhanu Priya

Lesson 46 :
All pairs Shortest path Algorithm | Example | Dynamic | Design Algorithms | Lec 46 | Bhanu Priya

Lesson 47 :
0 1 knapsack problem | Dynamic Programming | Design Algorithms | Lec 47 | Bhanu Priya

Lesson 48 : **0 1 knapsack problem | example| dynamic programming**

Lesson 49 :

Traveling Salesman Problem | Part 1 3 | Dynamic program | Design Algorithms | Lec 49 | Bhanu Priya

Lesson 50 :
Traveling Salesman Problem | Part 2 3 | Dynamic program | Design Algorithms | Lec 50 | Bhanu Priya

Lesson 51 :
Traveling Salesman Problem | Part 3 3 | Dynamic program | Design Algorithms | Lec 51 | Bhanu Priya

Lesson 52 : Backtracking general method | Design Algorithms | Lec 52 | Bhanu Priya

Lesson 53 : N Queen Problem | Backtracking Algorithm | Design Algorithms | Lec 53 | Bhanu Priya

Lesson 54 :
Sum of Subset Problem | Backtracking Method | Design Algorithms | Lec 54 | Bhanu Priya

Lesson 55 : hamiltonian circuit problem using backtracking

Related courses

React Projects Workshops

Node js back end JavaScript

Python programming language

Social Network Theme UI With Sass

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Build a Node js App With Sequelize

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