Mindluster Platform

About the course Data Structures DS

A data structure is a special way of organizing and storing data in a computer so that it can be used efficiently. Array, LinkedList, Stack, Queue, Tree, Graph etc are all data structures that stores the data in a special way so that we can access and use the data efficiently.

Programming Category's Courses

Course Lesson(67)

Lesson 1 : **Data Structures | Introduction | Lec 1 | Bhanu Priya**

Lesson 2 : **Programming Methodologies | Introduction | Data Structures | Lec 2 | Bhanu Priya**

Lesson 3 : **Programming Methodologies | Part 1 2 | Data Structures | Lec 3 | Bhanu Priya**

Lesson 4 : **Programming Methodologies | Part 2 2 | Data Structures | Lec 4 | Bhanu Priya**

Lesson 5 : **Abstract Data Type | Data Structures | Lec 5 | Bhanu Priya**

Lesson 6 : **Arrays | Declare Create Initialisation | 1 D 2 D | Data Structures| Lec 6 | Bhanu Priya**

Lesson 7 :
Array representation | Row Major order Column Major order | Data Structures| Lec 7 | Bhanu Priya

Lesson 8 :
1 D Array representation | Row Major Column Major order | Data Structures | Lec 8 | Bhanu Priya

Lesson 9 :
2 D Array representation | Row Major Column Major order | Data Structures | Lec 9 | Bhanu Priya

Lesson 10 : **Stack | PUSH POP | Data Structures | Lec 10 | Bhanu Priya**

Lesson 11 : **Stack Abstract Data Type | Insertion Deletion | Data Structures | Lec 11 | Bhanu Priya**

Lesson 12 : **Queues | FIFO Applications | Data Structures | Lec 12 | Bhanu Priya**

Lesson 13 : **Queue as ADT | Enqueue Dequeue | Data Structures | Lec 13 | Bhanu Priya**

Lesson 14 : **Infix Prefix and Postfix | Notations | Data Structures | Lec 14 | Bhanu Priya**

Lesson 15 : **Infix to Postfix conversions example | Data Structures | Lec 15 | Bhanu Priya**

Lesson 16 : **Infix to Prefix conversion | Examples | Data Structures | Lec 16 | Bhanu Priya**

Lesson 17 : **Postfix to Infix Conversion | Examples | Data Structures | Lec 17 | Bhanu Priya**

Lesson 18 : **Prefix to Infix Conversion | Examples | Data Structures | Lec 18 | Bhanu Priya**

Lesson 19 : **Evaluation of Postfix Expression | Algorithm | Data Structures | Lec 19 | Bhanu Priya**

Lesson 20 : **Evaluation of Postfix Expression | Examples | Data Structures | Lec 20 | Bhanu Priya**

Lesson 21 : **Evaluation of Prefix expression | Examples | Data Structures | Lec 21 | Bhanu Priya**

Lesson 22 : **Linked list | Introduction | Data Structures | Lec 22 | Bhanu Priya**

Lesson 23 : **Linked list | Single Double Circular | Data Structures | Lec 23 | Bhanu Priya**

Lesson 24 : **Sparse Matrix | Array representation | Data Structures | Lec 24 | Bhanu Priya**

Lesson 25 : **Sparse Matrix | Linked list representation | Data Structures | Lec 25 | Bhanu Priya**

Lesson 26 : **What is Tree | Data Structures | Lec 26 | Bhanu Priya**

Lesson 27 : **Binary tree | Recursive Properties | Data Structures | Lec 27 | Bhanu Priya**

Lesson 28 : **Recursive and Implementation of trees | Data Structures | Lec 28 | Bhanu Priya**

Lesson 29 :
Binary tree traversal | Preorder Inorder Postorder | Data Structures | Lec 29 | Bhanu Priya

Lesson 30 : **Binary Tree Traversal | Preorder | Data Structures | Lec 30 | Bhanu Priya**

Lesson 31 : **Binary Tree Traversal | Inorder | Data Structures | Lec 31 | Bhanu Priya**

Lesson 32 : **Binary Tree Traversal | Postorder | Data Structures | Lec 32 | Bhanu Priya**

Lesson 33 : **Binary Search Tree BST | Part 1 2 | Data Structures | Lec 33 | Bhanu Priya**

Lesson 34 : **Binary Search Tree BST | Part 2 2 | Data Structures | Lec 34 | Bhanu Priya**

Lesson 35 : **expression tree | Data Structures | Lec 35 | Bhanu Priya**

Lesson 36 :
Binary Search Tree Traversal | In Pre Post Order | Data Structures | Lec 36 | Bhanu Priya

Lesson 37 : **Searching in Binary Search Tree | Algo Example | Data Structures | Lec 37 | Bhanu Priya**

Lesson 38 : **Insertion in Binary Search Tree | Algo Example | Data Structures | Lec 38 | Bhanu Priya**

Lesson 39 : **Deletion in Binary Search Tree | Algo Example | Data Structures | Lec 39 | Bhanu Priya**

Lesson 40 : **Avl tree | Introduction | Data Structures | Lec 40 | Bhanu Priya**

Lesson 41 : **avl tree rotation examples | Left Left rotation | Data Structures | Lec 41 | Bhanu Priya**

Lesson 42 : **avl tree rotation examples | Left Right rotation | Data Structures | Lec 42 | Bhanu Priya**

Lesson 43 : **avl tree rotation examples | RR RL rotation | Data Structures | Lec 43 | Bhanu Priya**

Lesson 44 : **AVL tree insertion example | Data Structures | Lec 44 | Bhanu Priya**

Lesson 45 : **Heap tree | Min Max heap | Data Structures | Lec 45 | Bhanu Priya**

Lesson 46 : **Graph terminology | Data Structures | Lec 46 | Bhanu Priya**

Lesson 47 :
Adjacency Matrices | Example | Graph representation | Data Structures | Lec 47 | Bhanu Priya

Lesson 48 :
Incidence matrix | Example | Graph representation | Data Structures | Lec 48 | Bhanu Priya

Lesson 49 : **Adjacency list | Example | Graph representation | Data Structures | Lec 49 | Bhanu Priya**

Lesson 50 :
Depth First Search | Also Example | Graph traversal | Data Structures | Lec 50 | Bhanu Priya

Lesson 51 :
Breadth First Search | Also Example | Graph traversal | Data Structures | Lec 51 | Bhanu Priya

Lesson 52 : **Sorting | Methods | Data Structures | Lec 52 | Bhanu Priya**

Lesson 53 : **Selection Sort example | Straight | Data Structures | Lec 53 | Bhanu Priya**

Lesson 54 : **Selection sort algorithm | Straight | Data Structures | Lec 54 | Bhanu Priya**

Lesson 55 : **Heap sort example | Data Structures | Lec 55 | Bhanu Priya**

Lesson 56 : **Heap sorting algorithm | Data Structures | Lec 56 | Bhanu Priya**

Lesson 57 : **Insertion sort example | Straight | Data Structures | Lec 57 | Bhanu Priya**

Lesson 58 : **Shell sort example | Insertion | Data Structures | Lec 58 | Bhanu Priya**

Lesson 59 : **Bubble sort Example | Exchange Sort | Data Structures | Lec 59 | Bhanu Priya**

Lesson 60 :
Quicksort algorithm | Divide Conquer | Exchange Sort | Data Structures | Lec 60 | Bhanu Priya

Lesson 61 : **Quick sort example | Divide Conquer | Data Structures | Lec 61 | Bhanu Priya**

Lesson 62 : **What is Hashing | Data Structures | Lec 62 | Bhanu Priya**

Lesson 63 : **Hashing methods | Introduction | Part 1 4 | Data Structures | Lec 63 | Bhanu Priya**

Lesson 64 :
Hashing methods | Direct Modulo Division | Part 2 4 | Data Structures | Lec 64 | Bhanu Priya

Lesson 65 :
Hashing methods | Digit extraction Mid square | Part 3 4 | Data Structures | Lec 65 | Bhanu Priya

Lesson 66 :
Hashing methods | Folding Rotation Random | Part 4 4 | Data Structures | Lec 66 | Bhanu Priya

Lesson 67 : **Collision Resolution | Linear Quadratic probing | Data Structures | Lec 67 | Bhanu Priya**

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