

## About the course Data Structure and Algorithm

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(20)

Lesson 1 : [Linked List Data Structure](#)

Lesson 2 : [Queue Array Implementation Data Structure and Algorithm](#)

Lesson 3 : [Linked List Part 1 Data Structure Linked List Data Structure](#)

Lesson 4 : [Stack and Queue Data Structure](#)

Lesson 5 : [Tree Data Structure with Java Basic Concepts of Trees](#)

Lesson 6 : [Object Oriented Programming using Java Classes and Object](#)

Lesson 7 : [Data Structure Array Data Structure using Java](#)

Lesson 8 : [Recursion Concept of Recursion and Recursive Methods using Java](#)

Lesson 9 : [Data Structure and Algorithm Stack and Stack Operations](#)

Lesson 10 : [Data Structure and Algorithm Queue and Queue Operations](#)

Lesson 11 : [Tree Data Structure Binary Tree and Binary Tree Class](#)

Lesson 12 : [Linked List ADT Implementations of Linked List Data Structure](#)

Lesson 13 : [Binary Search Tree Deletion Insertion Search and Traverse operations of Binary Search Tree](#)

Lesson 14 : [Searching Algorithms Linear and Binary Search Algorithms with their Big O](#)

Lesson 15 : [Data Structure and Algorithm Selection Insertion and Bubble Sorting Algorithms](#)

Lesson 16 : [Data Structure and Algorithm Merge and Quick Sort using Java](#)

Lesson 17 : [Data Structure and Algorithm Graph Theory and Operations](#)

Lesson 18 : [Data Structure and Algorithm Representing a graph as an Adjacency Matrix and Adjacency List](#)

Lesson 19 : [Data Structure Introduction to Graph and Graph ADT Abstract Data Type Adjacency Matrix and List](#)

Lesson 20 : [Data Structure and Algorithm Memory Management and Memory Hierarchies and Caching](#)

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