

Road Map for DSA

- Array & String

- Basic Array and String
 - Kadane's Algo
 - Dutch National Flag Algo
 - Sliding window
 - Two pointers

- Multidimensional Array

- Traversal Based Problem
 - Rotation Based Problem.

- Recursion & Backtracking

- Basic Recursion
 - Divide and Conquer.

- Sorting Algorithm

- Insertion Sort
 - selection Sort

- Binary search Application.

- Binary search on Arrays
 - Binary Search on Matrix

- Linked List

- Reversal Problem
 - Sorting Problem.
 - Slow & fast pointer.
 - Modify in Linked List.

- Stacks & Queues

- Implementation Based
 - Application Based.

• Binary Trees

Tree traversals

Construction of Trees

Tree views

Standard Problem.

• BST

Construction of BST

Conversion based prob

Modification in BST

Standard Prob.

• Priority Queues & Heaps

- Implementation

- Conversion based

- K based problem.

• Graphs

Graph Traversal.

MST

Shortest Path Algo

Topological Sort

Graphs in matrix.

• Dynamic Programming

DP with Array

DP with strings

DP with maths

DP with Trees

Breaking & Partition Based

Counting Based Problem.

Hard Other topic →

- Hashmap • Tries

- Bit Manipulation • Circular Queues

- Greedy • Deques

- Doubly & circular LL • String Algo (KMP, Z)