Roadmap For Practicing Data Structures and Algorithms

- Arrays & Strings
  - Basic Array and Strings Questions
  - Kadane's Algorithm
  - Dutch National Flag Algorithm
  - Sliding Window
  - Two pointers
- Multidimensional arrays
  - Traversal Based Problems
  - Rotation Based Problems
- Recursion And Backtracking
  - Basic Recursion Questions
  - Divide And Conquer
- Sorting Algorithms
  - Insertion Sort
  - Selection Sort
- Binary Search Applications
  - Binary Search on Arrays
  - Binary Search on Matrix
- Linked Lists
  - Reversal Problems
  - Sorting Problems
  - Slow And Fast Pointers
  - Modify In Linked list
- Stacks & Queues
  - Implementation Based Problems
  - Application Based Problems
- Binary Trees
  - Tree Traversals
  - Construction Of Trees
  - Tree Views
  - Standard Problems
- BST
  - Construction Of BST
  - Conversion Based Problems
  - Modification in BST
  - Standard Problems
- Priority Queues and Heaps
  - Implementation Based problems
  - Conversion based problems
  - K Based Problems

Graphs
    - Graph Traversals - BFS And DFS
    - MST
    - Shortest Path Algorithms
    - Topological Sort
    - Graphs in Matrix
- Dynamic Programming
    - DP with Arrays
    - DP With Strings
    - DP With Maths
    - DP With Trees
    - Breaking And Partition Based Problems
    - Counting Based Problems
- Hard Recursion and Backtracking Questions
- Other Topics
    - Hashmaps
    - Tries
    - Bit Manipulation
    - Greedy
    - Circular Queues
    - Deques - Hot Topic
    - Doubly And Circular LL
    - String Algorithms like KMP and Z Algorithm