

CodeQuest: 30-Days LeetCode Mastery DSA Challenge [100 Essential Problems]



 *Created by: coding_error1* 

Week 1: Arrays and Strings

◆ Day 1: Array Basics

1.  [Two Sum](#)
2.  [Best Time to Buy and Sell Stock](#)
3.  [Contains Duplicate](#)

◆ Day 2: Array Techniques

4.  [Product of Array Except Self](#)
5.  [Maximum Subarray](#)
6.  [Move Zeroes](#)

◆ Day 3: String Manipulation

7.  [Valid Anagram](#)
8.  [Valid Palindrome](#)
9.  [Longest Substring Without Repeating Characters](#)

◆ Day 4: More Strings

10.  [Reverse String](#)
11.  [String to Integer \(atoi\)](#)
12.  [Longest Common Prefix](#)

Week 2: Linked Lists and Stacks/Queues

◆ Day 5: Linked List Basics

13.  [Reverse Linked List](#)
14.  [Linked List Cycle](#)
15.  [Merge Two Sorted Lists](#)

◆ Day 6: Advanced Linked Lists

- 16. [Remove Nth Node From End of List](#)
- 17. [Intersection of Two Linked Lists](#)
- 18. [Palindrome Linked List](#)

◆ Day 7: Stacks and Queues

- 19. [Valid Parentheses](#)
- 20. [Implement Queue using Stacks](#)
- 21. [Min Stack](#)
- 22. [Evaluate Reverse Polish Notation](#)

♣ Week 3: Binary Trees and Binary Search Trees

◆ Day 8: Binary Tree Traversal

- 23. [Binary Tree Inorder Traversal](#)
- 24. [Maximum Depth of Binary Tree](#)
- 25. [Symmetric Tree](#)

◆ Day 9: Binary Tree Operations

- 26. [Invert Binary Tree](#)
- 27. [Path Sum](#)
- 28. [Lowest Common Ancestor of a Binary Tree](#)

◆ Day 10: Binary Search Trees

- 29. [Validate Binary Search Tree](#)
- 30. [Kth Smallest Element in a BST](#)
- 31. [Convert Sorted Array to Binary Search Tree](#)

🔍 Week 4: Searching and Sorting

◆ Day 11: Binary Search

- 32. [Binary Search](#)
- 33. [First Bad Version](#)
- 34. [Search in Rotated Sorted Array](#)
- 35. [Find Minimum in Rotated Sorted Array](#)

◆ Day 12: Sorting Algorithms

- 36.  [Sort Colors](#)
- 37.  [Merge Intervals](#)
- 38.  [Meeting Rooms II](#)

◆ Day 13: More Searching

- 39.  [Find Peak Element](#)
- 40.  [Kth Largest Element in an Array](#)
- 41.  [Search a 2D Matrix](#)

Week 5: Dynamic Programming

◆ Day 14: DP Introduction

- 42.  [Climbing Stairs](#)
- 43.  [House Robber](#)
- 44.  [Maximum Subarray](#)

◆ Day 15: 1D Dynamic Programming

- 45.  [Coin Change](#)
- 46.  [Longest Increasing Subsequence](#)
- 47.  [Word Break](#)

◆ Day 16: 2D Dynamic Programming

- 48.  [Unique Paths](#)
- 49.  [Longest Common Subsequence](#)
- 50.  [Maximum Product Subarray](#)

Week 6: Graphs and BFS/DFS

◆ Day 17: Graph Basics

- 51.  [Number of Islands](#)
- 52.  [Clone Graph](#)
- 53.  [Course Schedule](#)

◆ Day 18: BFS

- 54.  [Word Ladder](#)
- 55.  [Minimum Depth of Binary Tree](#)
- 56.  [Rotting Oranges](#)

◆ Day 19: DFS

- 57. [Pacific Atlantic Water Flow](#)
- 58. [Surrounded Regions](#)
- 59. [Flood Fill](#)
- 60. [Graph Valid Tree](#)

Week 7: Heap, Priority Queue, and Trie

◆ Day 20: Heaps and Priority Queues

- 61. [Top K Frequent Elements](#)
- 62. [Merge K Sorted Lists](#)
- 63. [Find Median from Data Stream](#)

◆ Day 21: More Heap Applications

- 64. [K Closest Points to Origin](#)
- 65. [Sliding Window Maximum](#)
- 66. [Task Scheduler](#)

◆ Day 22: Trie

- 67. [Implement Trie \(Prefix Tree\)](#)
- 68. [Word Search II](#)
- 69. [Design Add and Search Words Data Structure](#)

Week 8: Bitwise Operations and Math

◆ Day 23: Bit Manipulation

- 70. [Single Number](#)
- 71. [Counting Bits](#)
- 72. [Number of 1 Bits](#)
- 73. [Missing Number](#)

◆ Day 24: Math Problems

- 74. [Pow\(x, n\)](#)
- 75. [Happy Number](#)
- 76. [Excel Sheet Column Number](#)
- 77. [Factorial Trailing Zeroses](#)

Week 9: Design and Advanced Topics

◆ Day 25: System Design Questions

- 78.  [LRU Cache](#)
- 79.  [Design Twitter](#)
- 80.  [Serialize and Deserialize Binary Tree](#)

◆ Day 26: Advanced Techniques

- 81.  [Meeting Rooms II](#)
- 82.  [Trapping Rain Water](#)
- 83.  [Find the Duplicate Number](#)
- 84.  [Longest Consecutive Sequence](#)

Week 10: More Advanced Topics and Review

◆ Day 27: Sliding Window

- 85.  [Minimum Window Substring](#)
- 86.  [Sliding Window Maximum](#)
- 87.  [Longest Repeating Character Replacement](#)

◆ Day 28: Greedy Algorithms

- 88.  [Jump Game](#)
- 89.  [Gas Station](#)
- 90.  [Non-overlapping Intervals](#)
- 91.  [Partition Labels](#)

◆ Day 29: Backtracking

- 92.  [Letter Combinations of a Phone Number](#)
- 93.  [Generate Parentheses](#)
- 94.  [Permutations](#)
- 95.  [Subsets](#)
- 96.  [Word Search](#)

◆ Day 30: Final Review and Challenging Problems

- 97.  [Longest Palindromic Substring](#)
- 98.  [Longest Increasing Path in a Matrix](#)
- 99.  [Alien Dictionary](#)

100.

[Median of Two Sorted Arrays](#)



Study Tips

1.  **Consistent Practice:** Solve at least the daily questions, even if just for 1-2 hours
2.  **Understand Solutions:** Don't just solve problems, understand the approach
3.  **Time Your Solutions:** Practice with a timer to prepare for real interviews
4.  **Review Regularly:** Go back to problems you've solved to reinforce learning
5.  **Track Progress:** Keep notes on problem patterns and techniques you learn

 Good luck with your 30-day LeetCode challenge! 