

Warning: This is not to demotivate you. It's just my kit, so thought may be needed. When I was preparing then I had to waste time to find

quality problems so... There are 3 sections,

1st sec: Theory and concept, 2nd/3rd choose one and practice all ques. Don't try to find perfect content.

Content in all 3 sections is same, difference: 1st section is concept based, 2nd and 3rd section problem based.

All the best. No one is asking to complete these..

Linear DS:

Stack: Implementation of LIFO, reverse, dynamic, QUES: nextGreaterElement

Queue: circular implementation, MaximumElementInWindowOfSizeK, NonRepeatingChar, Stack Using Queue (Push efficient, Pop efficient), reverse queue,

queue using stack (Enqueue efficient, dequeue effi).

LinkedList:

traverse; add-last, first, at; delete: last, first, at; get-at, last, first; Reverse: data, pointers; Mid(x, 2x algo); LL: as stack, as queue

NonLinear DS:

Tree: GenTree Construction, Binarytree Construction, height, pre, post, in order, level order, SumOfAllLeaves, Same for BST

HashMap: in Bar raiser round they do ask sometime to implement ur own hashMap.. Problems: Subarray with 0 sum, max Sum.

heap: Min, max heap construction

Graph: BFS, DFS, isTree, SpanningTree, Krushal, Prim, Dijkstra, BellmanFord, FloydWarshall

DP: lcs, editDistance, MatrixChainMultiplication, knapsack, palindromePartitioning, catalanNumber, WildcardMatching, WineProblem, Mixtures, StairCase, Coin

Recursion is must to understand DP

backtracking: NQueen, blockedMaze, floodMatrix, coinChange

Don't ignore:

Array, String, 2 pointer method

Tries: Huffman Encoding

Segment Tree

<https://www.geeksforgeeks.org/must-do-coding-questions-for-companies-like-amazon-microsoft-adobe/?ref=leftbar>

Top 50 interview ques:

1. Two Sum (<https://leetcode.com/problems/two-sum>)

2. Add Two Numbers (<https://leetcode.com/problems/add-two-numbers>)

3. Longest Substring Without Repeating Characters

(<https://leetcode.com/problems/longest-substring-without-repeating-characters>)

4. Median of Two Sorted Arrays (<https://leetcode.com/problems/median-of-two-sortedarrays>)

5. Longest Palindromic Substring (<https://leetcode.com/problems/longest-palindromicsubstring>)

6. Regular Expression Matching (<https://leetcode.com/problems/regular-expressionmatching>)

7. Container With Most Water (<https://leetcode.com/problems/container-with-most-water>)
8. 3Sum (<https://leetcode.com/problems/3sum>)
9. Letter Combinations of a Phone Number (<https://leetcode.com/problems/lettercombinations-of-a-phone-number>)
10. Remove Nth Node From End of List (<https://leetcode.com/problems/remove-nth-nodefrom-end-of-list>)
11. Valid Parentheses (<https://leetcode.com/problems/valid-parentheses>)
12. Merge Two Sorted Lists (<https://leetcode.com/problems/merge-two-sorted-lists>)
13. Generate Parentheses (<https://leetcode.com/problems/generate-parentheses>)
14. Merge k Sorted Lists (<https://leetcode.com/problems/merge-k-sorted-lists>)
15. Longest Valid Parentheses (<https://leetcode.com/problems/longest-valid-parentheses>)
16. Search in Rotated Sorted Array (<https://leetcode.com/problems/search-in-rotatedsorted-array>)
17. Find First and Last Position of Element in Sorted Array (<https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array>)
18. Combination Sum (<https://leetcode.com/problems/combination-sum>)
19. First Missing Positive (<https://leetcode.com/problems/first-missing-positive>)
20. Trapping Rain Water (<https://leetcode.com/problems/trapping-rain-water>)
21. Jump Game II (<https://leetcode.com/problems/jump-game-ii>)
22. Permutations (<https://leetcode.com/problems/permutations>)
23. Rotate Image (<https://leetcode.com/problems/rotate-image>)
24. Group Anagrams (<https://leetcode.com/problems/group-anagrams>)
25. Maximum Subarray (<https://leetcode.com/problems/maximum-subarray>)
26. Jump Game (<https://leetcode.com/problems/jump-game>)
27. Merge Intervals (<https://leetcode.com/problems/merge-intervals>)
28. Unique Paths (<https://leetcode.com/problems/unique-paths>)
29. Minimum Path Sum (<https://leetcode.com/problems/minimum-path-sum>)
30. Climbing Stairs (<https://leetcode.com/problems/climbing-stairs>)
31. Edit Distance (<https://leetcode.com/problems/edit-distance>)
32. Sort Colors (<https://leetcode.com/problems/sort-colors>)
33. Minimum Window Substring (<https://leetcode.com/problems/minimum-windowsubstring>)
34. Subsets (<https://leetcode.com/problems/subsets>)
35. Word Search (<https://leetcode.com/problems/word-search>)
36. Largest Rectangle in Histogram (<https://leetcode.com/problems/largest-rectangle-inhistogram>)
37. Maximal Rectangle (<https://leetcode.com/problems/maximal-rectangle>)
38. Binary Tree Inorder Traversal (<https://leetcode.com/problems/binary-tree-inordertraversal>)
39. Unique Binary Search Trees (<https://leetcode.com/problems/unique-binary-search-trees>)
40. Validate Binary Search Tree (<https://leetcode.com/problems/validate-binary-search-tree>)
41. Symmetric Tree (<https://leetcode.com/problems/symmetric-tree>)
42. Binary Tree Level Order Traversal (<https://leetcode.com/problems/binary-tree-levelorder-traversal>)
43. Maximum Depth of Binary Tree (<https://leetcode.com/problems/maximum-depth-ofbinary-tree>)
44. Construct Binary Tree from Preorder and Inorder Traversal (<https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inordertraversal>)
45. Flatten Binary Tree to Linked List (<https://leetcode.com/problems/flatten-binary-tree-tolinked-list>)
46. Best Time to Buy and Sell Stock (<https://leetcode.com/problems/best-time-to-buy-and-sell-stock>)
47. Binary Tree Maximum Path Sum (<https://leetcode.com/problems/binary-tree-maximumpath-sum>)
48. Longest Consecutive Sequence (<https://leetcode.com/problems/longest-consecutive-sequence>)
49. Single Number (<https://leetcode.com/problems/single-number>)
50. Copy List with Random Pointer (<https://leetcode.com/problems/copy-list-with-randompointer>)

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