

# Mircrosoft VO

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1. [1239. Maximum Length of a Concatenated String with Unique Characters -- Medium](#)
2. [234. Palindrome Linked List -- Easy](#) **O(1)**
3. [297. Serialize and Deserialize Binary Tree -- Hard](#)
4. [428. Serialize and Deserialize N-ary Tree -- Hard](#)
5. [1188. Design Bounded Blocking Queue -- Medium](#)
6. [103. Binary Tree Zigzag Level Order Traversal -- Medium](#) +
7. [1197. Minimum Knight Moves -- Medium](#)
8. [23. Merge k Sorted Lists -- Hard](#)
9. [Sell Stock Series -- Easy to Hard](#) III and IV need practice more
10. [398. Random Pick Index -- Medium](#)
11. [287. Find the Duplicate Number -- Medium](#) **follow up** +
12. [146. LRU Cache -- Medium](#) +
13. [49. Group Anagrams -- Medium](#)
14. [535. Encode and Decode TinyURL -- Medium](#)
15. [438. Find All Anagrams in a String -- Medium](#)
16. [273. Integer to English Words -- Hard](#)
17. [138. Copy List with Random Pointer -- Medium](#)
18. [171. Excel Sheet Column Number -- Easy](#)
19. [348. Design Tic-Tac-Toe -- Medium](#)
20. [783. Minimum Distance Between BST Nodes -- Easy](#)
21. [247. Strobogrammatic Number II -- Medium](#)
22. [21. Merge Two Sorted Lists -- Easy](#)
23. [347. Top K Frequent Elements -- Medium](#) + quick select
24. [721. Accounts Merge -- Medium](#)
25. [new grad 001](#)
26. find duplicate in ascending array
27. [198. House Robber -- Medium](#)
28. [489. Robot Room Cleaner -- Hard](#)
29. [4. Median of Two Sorted Arrays -- Hard](#)
30. [295. Find Median from Data Stream -- Hard](#)
31. [183. Customers Who Never Order -- Easy](#)
32. [33. Search in Rotated Sorted Array -- Medium](#)
33. [445. Add Two Numbers II -- Medium](#)
34. check if it is BST
35. [new grad 002](#)
36. [1446. Consecutive Characters -- Medium](#)
37. [650. 2 Keys Keyboard -- Medium](#)
38. [1344. Angle Between Hands of a Clock -- Medium](#)
39. [13. Roman to Integer -- Easy](#)
40. [36. Valid Sudoku -- Medium](#)
41. [37. Sudoku Solver -- Hard](#)
42. [772. Basic Calculator III -- Hard](#)
43. [53. Maximum Subarray -- Medium](#)
44. [46. Permutations -- Medium](#)
45. [560. Subarray Sum Equals K -- Medium](#)
46. [1586. Binary Search Tree Iterator II -- Medium](#)

47. [127. Word Ladder -- Hard](#)
48. [126. Word Ladder II -- Hard](#)
49. [90. Subsets II -- Medium](#) +
50. [210. Course Schedule II -- Medium](#)
51. [207. Course Schedule -- Medium](#)
52. [340. Longest Substring with At Most K Distinct Characters -- Medium](#)
53. [239. Sliding Window Maximum -- Hard](#) +
54. [Lock](#)
55. [62. Unique Paths -- Medium](#)
56. [int sqrt\(x\)](#)
57. [56. Merge Intervals -- Medium](#) +
58. [source to destination, minimum cost](#)
59. [463. Island Perimeter -- Easy](#)
60. check if IP is valid
61. [128. Longest Consecutive Sequence -- Hard](#)
62. [973. K Closest Points to Origin -- Medium](#)
63. [702. Search in a Sorted Array of Unknown Size](#)
64. given sorted array, find K closest value to target
65. [15. 3Sum -- Medium](#)
66. [124. Binary Tree Maximum Path Sum -- Hard](#)
67. [Transfer BST to ascending doubly LinkedList](#)
68. [Find if an array of strings can be chained to form a circle](#)
69. [1258. Synonymous Sentences -- Medium](#)
70. [54. Spiral Matrix -- Medium](#)
71. [75. Sort Colors -- Medium](#)
72. Given a linkedList, return K largest values in an array
73. [142. Linked List Cycle II -- Medium](#) +
74. kth smallest element in two sorted list
75. [68. Text Justification -- Hard](#)
76. [346. Moving Average from Data Stream -- Easy](#)
77. [4. Median of Two Sorted Arrays -- Hard](#) +
- 179 largest number 78. find max number combination. e.g. give [23, 12, 56], return 562312.
79. [42. Trapping Rain Water -- Hard](#)
80. [258. Add Digits -- Easy](#)
81. [332. Reconstruct Itinerary -- Medium](#)
82. [340. Longest Substring with At Most K Distinct Characters -- Medium](#)
83. check if a integer is a prime
84. [460. LFU Cache -- Hard](#)
85. return node and height of the tree
86. [1780. Check if Number is a Sum of Powers of Three -- Medium](#)
87. first unique number or char in the string +
88. Merge sort array +
89. [Minimum Adjacent swaps to make palindrome](#)
90. [1312. Minimum Insertion Steps to Make a String Palindrome -- Hard](#)
91. [Find the minimum number of deletions required to convert a string into a palindrome](#)
92. [Minimum number of characters to be replaced to make a given string Palindrome](#)
93. [Minimum number of Appends needed to make a string palindrome](#)
94. [416. Partition Equal Subset Sum -- Medium](#) / [698. Partition to K Equal Sum Subsets -- Medium](#)
95. [236. Lowest Common Ancestor of a Binary Tree -- Medium](#)
96. [48. Rotate Image -- Medium](#)
97. topological sort, 拓扑排序? ? ?
98. [122. Best Time to Buy and Sell Stock II -- Medium](#)

- 99. given a string and a set of patterns, remove patterns from the string
- 100. [17. Letter Combinations of a Phone Number -- Medium](#)
- 101. [692. Top K Frequent Words -- Medium](#)
- 102. [322. Coin Change -- Medium](#)
- 103. [88. Merge Sorted Array -- Easy](#) **O(N)**
- 104. [1. Two Sum -- Easy](#)
- 105. Quick Sort
- 106. [other 001](#)
- 107. [449. Serialize and Deserialize BST -- Medium](#)
- 108. [647. Palindromic Substrings -- medium](#)
- 109. merge to linked list / 160 intersection of linkedlists
- 110. [20. valid parentheses -- Medium](#)