



Tauseef Fayyaz [in](#)

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@tauseeffayyaz

LeetCode Cheatsheet

A CURATED LIST OF MUST
SOLVE PROBLEMS





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Preparing for coding interviews used to feel like an endless grind. I spent countless hours searching for the right LeetCode problems, wondering if I was even solving the right ones.

If I had a structured cheat sheet back then, it would have saved me so much time and effort.

That's why I'm sharing this well curated list of must-solve problems for online assessments and coding interviews.



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Two Pointers

Essential for optimizing array and string problems, reducing time complexity from $O(n^2)$ to $O(n)$.

2Pointers - Nov

KSI · 30 questions · 430 Saved

▶ Practice

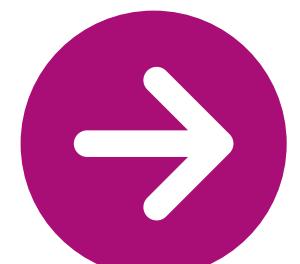
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Progress

 0 / 30 Solved 0 Attempting	Easy 0 / 12	Med. 0 / 16	Hard 0 / 2
--------------------------------------	----------------	----------------	---------------

763. Partition Labels	Med.	
653. Two Sum IV - Input is a BST	Easy	
1089. Duplicate Zeros	Easy	
658. Find K Closest Elements	Med.	
881. Boats to Save People	Med.	
777. Swap Adjacent in LR String	Med.	
1093. Statistics from a Large Sample	Med.	
680. Valid Palindrome II	Easy	
795. Number of Subarrays with Bounded Maximum	Med.	
905. Sort Array By Parity	Easy	
696. Count Binary Substrings	Easy	
917. Reverse Only Letters	Easy	
1023. Camelcase Matching	Med.	
809. Expressive Words	Med.	
922. Sort Array By Parity II	Easy	
923. 3Sum With Multiplicity	Med.	

<https://leetcode.com/problem-list/9ns2k47r/>

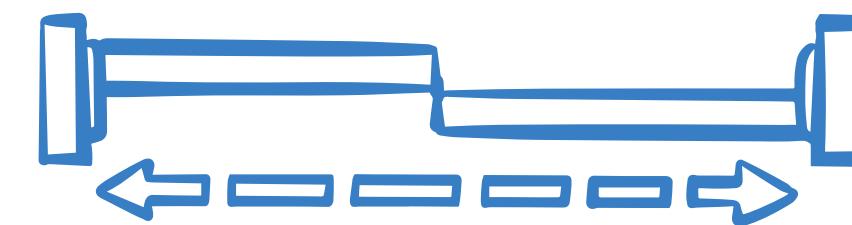


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Sliding Window

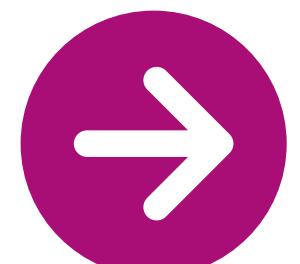


Great for subarray problems, helps in handling streaming data efficiently.

The screenshot shows the LeetCode platform interface. On the left, there's a sidebar with a user icon, a title "Sliding Window Problem", and a progress section showing "0/12 Solved" and "0 Attempting". Below these are three difficulty filters: "Easy 0", "Med. 0/10", and "Hard 0/2". On the right, a list of 14 LeetCode problems related to sliding windows is displayed, each with its title, difficulty level (Med. or Hard), and a progress bar indicating completion status.

Problem Title	Difficulty	Progress
930. Binary Subarrays With Sum	Med.	
1234. Replace the Substring for Balanced String	Med.	
424. Longest Repeating Character Replacement	Med.	
1208. Get Equal Substrings Within Budget	Med.	
992. Subarrays with K Different Integers	Hard	
904. Fruit Into Baskets	Med.	
1438. Longest Continuous Subarray With Absolute Dif...	Med.	
209. Minimum Size Subarray Sum	Med.	
1358. Number of Substrings Containing All Three...	Med.	
1004. Max Consecutive Ones III	Med.	
1248. Count Number of Nice Subarrays	Med.	
862. Shortest Subarray with Sum at Least K	Hard	

<https://leetcode.com/problem-list/x1lbzfk3/>

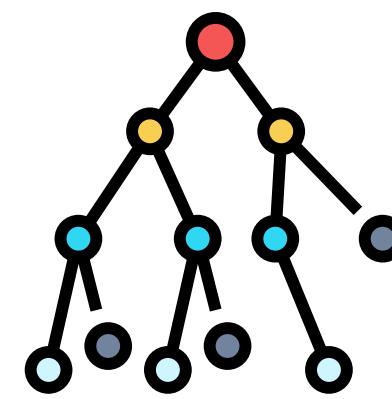


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Binary Search



A must-know for efficient searching in sorted datasets, reducing complexity to $O(\log n)$.

Binary Search - Beginners

Joseph Cristiano · 41 questions · 482 Saved

Practice

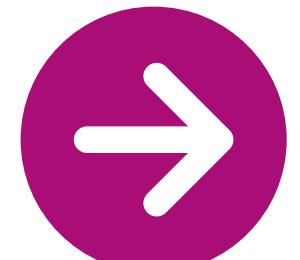
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Progress

Category	Solved	Attempting
Easy	0/5	0
Med.	0/29	0
Hard	0/7	0

Problem	Difficulty	Progress
1283. Find the Smallest Divisor Given a Threshold	Med.	<div style="width: 10%;">10%</div>
4. Median of Two Sorted Arrays	Hard	<div style="width: 10%;">10%</div>
1292. Maximum Side Length of a Square with Sum Less Than or Equal to K	Med.	<div style="width: 10%;">10%</div>
1802. Maximum Value at a Given Index in a Bounded Range	Med.	<div style="width: 10%;">10%</div>
875. Koko Eating Bananas	Med.	<div style="width: 10%;">10%</div>
528. Random Pick with Weight	Med.	<div style="width: 10%;">10%</div>
658. Find K Closest Elements	Med.	<div style="width: 10%;">10%</div>
275. H-Index II	Med.	<div style="width: 10%;">10%</div>
1562. Find Latest Group of Size M	Med.	<div style="width: 10%;">10%</div>
278. First Bad Version	Easy	<div style="width: 10%;">10%</div>
704. Binary Search	Easy	<div style="width: 10%;">10%</div>
153. Find Minimum in Rotated Sorted Array	Med.	<div style="width: 10%;">10%</div>
410. Split Array Largest Sum	Hard	<div style="width: 10%;">10%</div>
154. Find Minimum in Rotated Sorted Array II	Hard	<div style="width: 10%;">10%</div>
668. Kth Smallest Number in Multiplication Table	Hard	<div style="width: 10%;">10%</div>
1201. Ugly Number III	Med.	<div style="width: 10%;">10%</div>

<https://leetcode.com/problem-list/504wrexel/>



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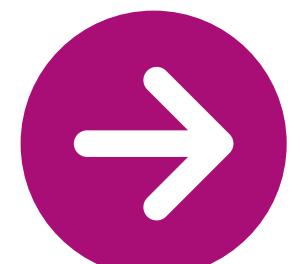
Hash Table & Map

Fundamental for handling large datasets, fast lookup operations, and avoiding nested loops.

The screenshot shows a LeetCode dashboard for the 'Hash Table and Map' category. On the left, there's a sidebar with a 'Practice' button, a progress bar showing '0/46 Solved' with 0 attempts, and three difficulty levels: Easy (0/27), Medium (0/19), and Hard (0). The main area lists 18 problems, each with its title, difficulty level, and a progress bar:

Problem Title	Difficulty	Progress
1. Two Sum	Easy	██████
3. Longest Substring Without Repeating Characters	Med.	██████
387. First Unique Character in a String	Easy	██████
389. Find the Difference	Easy	██████
645. Set Mismatch	Easy	██████
1679. Max Number of K-Sum Pairs	Med.	██████
136. Single Number	Easy	██████
138. Copy List with Random Pointer	Med.	██████
525. Contiguous Array	Med.	██████
771. Jewels and Stones	Easy	██████
1189. Maximum Number of Balloons	Easy	██████
18. 4Sum	Med.	██████
274. H-Index	Med.	██████
1002. Find Common Characters	Easy	██████
884. Uncommon Words from Two Sentences	Easy	██████
409. Longest Palindrome	Easy	██████

<https://leetcode.com/problem-list/9ixr4vaj/>

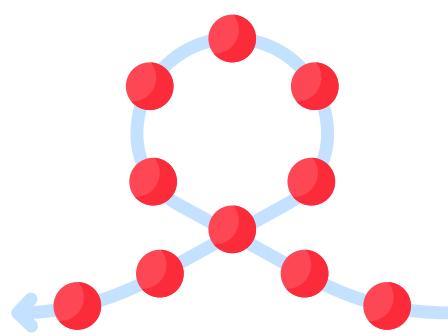


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Linked List

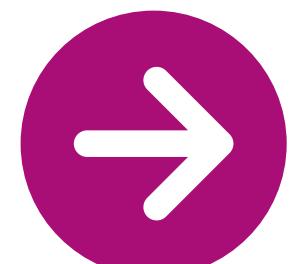


Commonly tested in FAANG interviews, important for understanding memory management.

The screenshot shows a list of 15 linked list problems from LeetCode, categorized by difficulty: Easy, Medium, and Hard. Each problem includes its title, difficulty level, and a progress bar indicating solved attempts.

Problem Title	Difficulty	Solved Attempts
2. Add Two Numbers	Med.	5/5
328. Odd Even Linked List	Med.	5/5
138. Copy List with Random Pointer	Med.	5/5
109. Convert Sorted List to Binary Search Tree	Med.	5/5
142. Linked List Cycle II	Med.	5/5
143. Reorder List	Med.	5/5
1019. Next Greater Node In Linked List	Med.	5/5
19. Remove Nth Node From End of List	Med.	5/5
21. Merge Two Sorted Lists	Easy	5/5
86. Partition List	Med.	5/5
23. Merge k Sorted Lists	Hard	5/5
24. Swap Nodes in Pairs	Med.	5/5
92. Reverse Linked List II	Med.	5/5

<https://leetcode.com/problem-list/9rizphpj/>

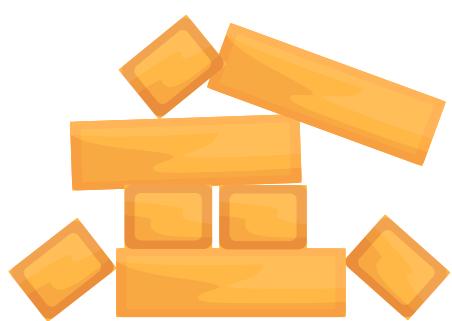


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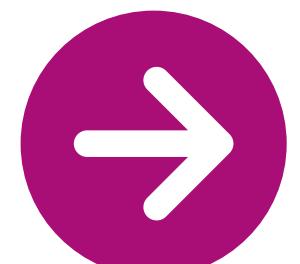
Heaps



Crucial for priority-based problems like scheduling and finding the k-largest elements.

Problem Title	Difficulty	Progress
871. Minimum Number of Refueling Stops	Hard	██████
264. Ugly Number II	Med.	██████
767. Reorganize String	Med.	██████
1439. Find the Kth Smallest Sum of a Matrix With Sort...	Hard	██████
703. Kth Largest Element in a Stream	Easy	██████
23. Merge k Sorted Lists	Hard	██████
295. Find Median from Data Stream	Hard	██████
692. Top K Frequent Words	Med.	██████
451. Sort Characters By Frequency	Med.	██████
215. Kth Largest Element in an Array	Med.	██████
347. Top K Frequent Elements	Med.	██████
480. Sliding Window Median	Hard	██████
358. Rearrange String k Distance Apart	Hard	██████
1167. Minimum Cost to Connect Sticks	Med.	██████
621. Task Scheduler	Med.	██████
373. Find K Pairs with Smallest Sums	Med.	██████

<https://leetcode.com/problem-list/93chilpi/>

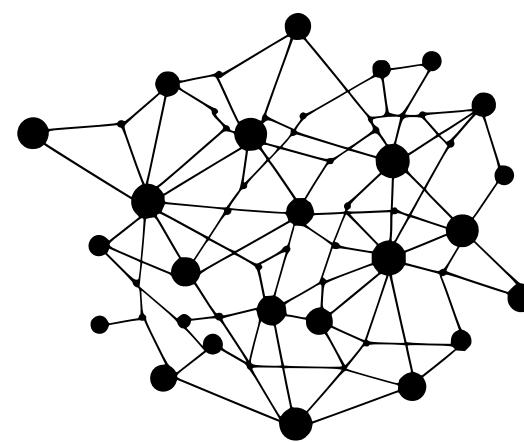


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Graphs

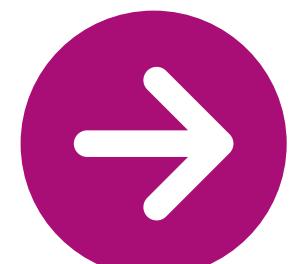


Key for solving network and connectivity problems in real-world applications.

The screenshot shows a list of 20 graph-related problems from LeetCode, categorized by difficulty: Medium (13), Hard (1), and Easy (1). Each problem includes its title, difficulty level, and a progress bar indicating completion status.

Problem Title	Difficulty	Progress Bar
130. Surrounded Regions	Med.	██████
133. Clone Graph	Med.	██████
990. Satisfiability of Equality Equations	Med.	██████
994. Rotting Oranges	Med.	██████
399. Evaluate Division	Med.	██████
997. Find the Town Judge	Easy	██████
1091. Shortest Path in Binary Matrix	Med.	██████
882. Reachable Nodes In Subdivided Graph	Hard	██████
886. Possible Bipartition	Med.	██████
1311. Get Watched Videos by Your Friends	Med.	██████
542. 01 Matrix	Med.	██████
417. Pacific Atlantic Water Flow	Med.	██████
785. Is Graph Bipartite?	Med.	██████
547. Number of Provinces	Med.	██████
1319. Number of Operations to Make Network...	Med.	██████
1466. Reorder Routes to Make All Paths Lead to the Ci...	Med.	██████

<https://leetcode.com/problem-list/9x1uea1h/>

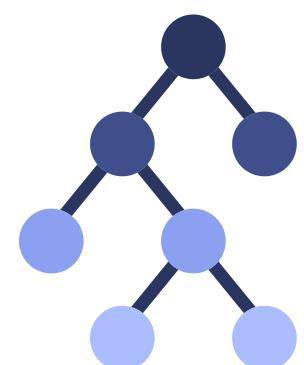


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Trees



Important for hierarchical data structures, recursion, and divide & conquer techniques.

Tree

Joseph Cristiano · 25 questions · 486 Saved

▶ Practice ⭐ ⓘ ⏚

⚡ Updated: a few seconds ago

Progress

0/25 Solved
0 Attempting

Difficulty	Solved
Easy	0/7
Med.	0/16
Hard	0/2

		Difficulty	Progress
654. Maximum Binary Tree	Med.		
662. Maximum Width of Binary Tree	Med.		
543. Diameter of Binary Tree	Easy		
297. Serialize and Deserialize Binary Tree	Hard		
437. Path Sum III	Med.		
572. Subtree of Another Tree	Easy		
199. Binary Tree Right Side View	Med.		
208. Implement Trie (Prefix Tree)	Med.		
98. Validate Binary Search Tree	Med.		
226. Invert Binary Tree	Easy		
100. Same Tree	Easy		
102. Binary Tree Level Order Traversal	Med.		
103. Binary Tree Zigzag Level Order Traversal	Med.		
104. Maximum Depth of Binary Tree	Easy		
105. Construct Binary Tree from Preorder and Inorder...	Med.		
230. Kth Smallest Element in a BST	Med.		

<https://leetcode.com/problem-list/9ak7i9wv/>

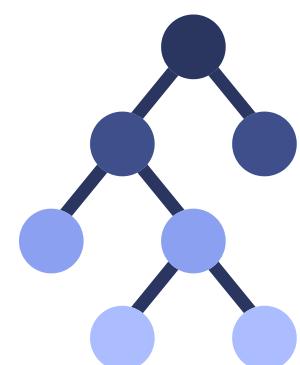


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Trees



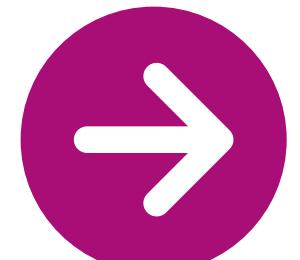
More in-depth coverage of tree traversal, balancing, and BST optimizations.

The screenshot shows the LeetCode 'Tree' category page. It includes a sidebar with a 'Practice' button, a progress summary showing 0 solved out of 25 questions, and a 'Progress' section with a circular progress bar. The main area lists 18 tree-related problems:

Problem	Difficulty	Solved
654. Maximum Binary Tree	Med.	0/11
662. Maximum Width of Binary Tree	Med.	0/11
543. Diameter of Binary Tree	Easy	0/11
297. Serialize and Deserialize Binary Tree	Hard	0/11
437. Path Sum III	Med.	0/11
572. Subtree of Another Tree	Easy	0/11
199. Binary Tree Right Side View	Med.	0/11
208. Implement Trie (Prefix Tree)	Med.	0/11
98. Validate Binary Search Tree	Med.	0/11
226. Invert Binary Tree	Easy	0/11
100. Same Tree	Easy	0/11
102. Binary Tree Level Order Traversal	Med.	0/11
103. Binary Tree Zigzag Level Order Traversal	Med.	0/11
104. Maximum Depth of Binary Tree	Easy	0/11
105. Construct Binary Tree from Preorder and Inorder...	Med.	0/11
230. Kth Smallest Element in a BST	Med.	0/11

Problem	Difficulty	Solved
654. Maximum Binary Tree	Med.	0/11
662. Maximum Width of Binary Tree	Med.	0/11
543. Diameter of Binary Tree	Easy	0/11
297. Serialize and Deserialize Binary Tree	Hard	0/11
437. Path Sum III	Med.	0/11
572. Subtree of Another Tree	Easy	0/11
199. Binary Tree Right Side View	Med.	0/11
208. Implement Trie (Prefix Tree)	Med.	0/11
98. Validate Binary Search Tree	Med.	0/11
226. Invert Binary Tree	Easy	0/11
100. Same Tree	Easy	0/11
102. Binary Tree Level Order Traversal	Med.	0/11
103. Binary Tree Zigzag Level Order Traversal	Med.	0/11
104. Maximum Depth of Binary Tree	Easy	0/11
105. Construct Binary Tree from Preorder and Inorder...	Med.	0/11
230. Kth Smallest Element in a BST	Med.	0/11

<https://leetcode.com/problem-list/9ak7i9wv/>

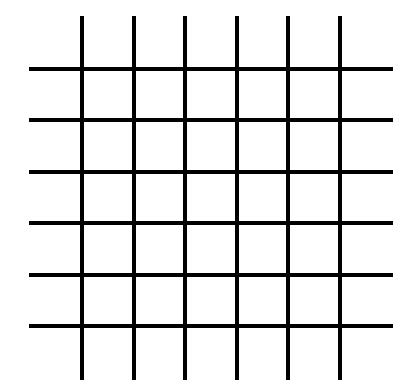


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Dynamic Programming



The toughest yet most valuable technique, used in optimal substructure and overlapping subproblems.

DP for Beginners

Joseph Cristiano · 49 questions · 707 Saved

Practice star copy share

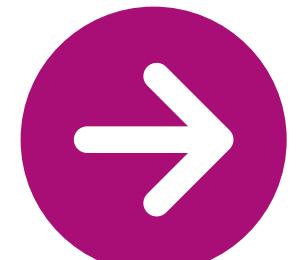
⚡ Updated: a few seconds ago

Progress

0 / 49 Solved	0 / 41 Attempting
Easy	0 / 1
Med.	0 / 41
Hard	0 / 7

983. Minimum Cost For Tickets	Med.	
132. Palindrome Partitioning II	Hard	
518. Coin Change II	Med.	
646. Maximum Length of Pair Chain	Med.	
647. Palindromic Substrings	Med.	
877. Stone Game	Med.	
279. Perfect Squares	Med.	
416. Partition Equal Subset Sum	Med.	
673. Number of Longest Increasing Subsequence	Med.	
300. Longest Increasing Subsequence	Med.	
174. Dungeon Game	Hard	
304. Range Sum Query 2D - Immutable	Med.	
688. Knight Probability in Chessboard	Med.	
1218. Longest Arithmetic Subsequence of Given...	Med.	
309. Best Time to Buy and Sell Stock with Cooldown	Med.	
312. Burst Balloons	Hard	

<https://leetcode.com/problem-list/9x5spweh/>

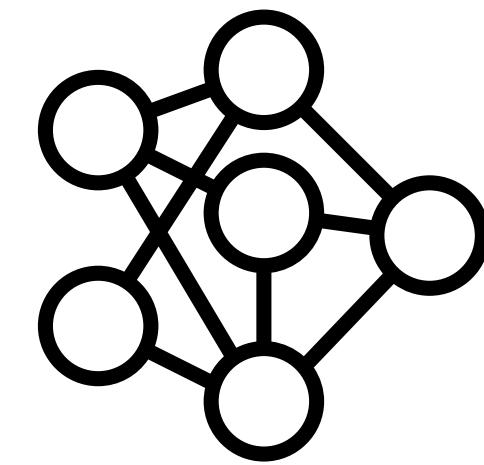


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Greedy Algorithms

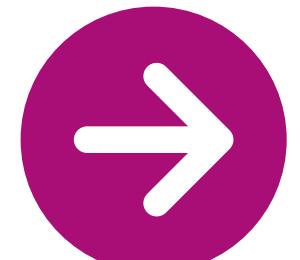


Great for optimization problems, making locally optimal choices at each step.

The screenshot shows a LeetCode practice session. The title is "Greedy Related Problem ms copy 1". It's created by Joseph Cristiano, has 34 questions, and 538 saved. There are buttons for "Practice", "Star", "Share", and "Copy". A note says it was updated a few seconds ago. The progress section shows 0 solved out of 34, 0 attempting, and a breakdown by difficulty: Easy 0/5, Med. 0/28, Hard 0/1.

Problem	Difficulty	Solutions
763. Partition Labels	Med.	
984. String Without AAA or BBB	Med.	
870. Advantage Shuffle	Med.	
134. Gas Station	Med.	
135. Candy	Hard	
767. Reorganize String	Med.	
874. Walking Robot Simulation	Med.	
1296. Divide Array in Sets of K Consecutive Numbers	Med.	
402. Remove K Digits	Med.	
1433. Check If a String Can Break Another String	Med.	
881. Boats to Save People	Med.	
406. Queue Reconstruction by Height	Med.	
1094. Car Pooling	Med.	
45. Jump Game II	Med.	
1217. Minimum Cost to Move Chips to The Same...	Easy	
55. Jump Game	Med.	

<https://leetcode.com/problem-list/925p7hr1/>

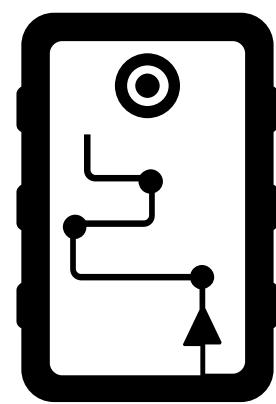


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Backtracking



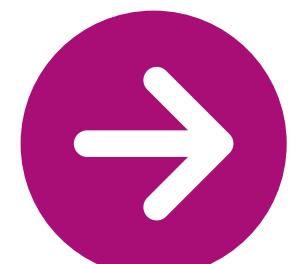
Powerful for solving permutations, combinations, and constraint-satisfaction problems.

The screenshot shows a LeetCode problem list titled "backtrack". It includes a sidebar with a notebook icon, a "Practice" button, and filters for difficulty (Easy, Med., Hard). The main area displays 17 problems related to backtracking:

- 784. Letter Case Permutation
- 131. Palindrome Partitioning
- 39. Combination Sum
- 40. Combination Sum II
- 1079. Letter Tile Possibilities
- 1415. The k-th Lexicographical String of All Happy...
- 77. Combinations
- 46. Permutations
- 47. Permutations II
- 78. Subsets
- 17. Letter Combinations of a Phone Number
- 526. Beautiful Arrangement
- 797. All Paths From Source to Target
- 373. Find K Pairs with Smallest Sums
- 22. Generate Parentheses
- 216. Combination Sum III

↓ ↑ ⌂ ⌃ ⌄

<https://leetcode.com/problem-list/9x9qz3md/>

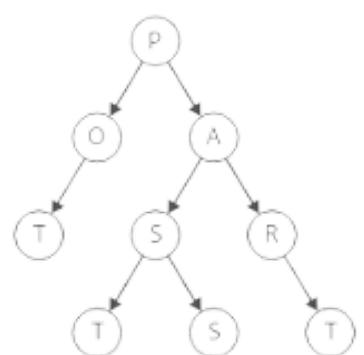


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Trie



Best for efficient word searching, autocomplete, and prefix-based problems.

trie

Mahima Arora · 8 questions · 298 Saved

▶ Practice ⭐ ↗ 🔄

⚡ Updated: a few seconds ago

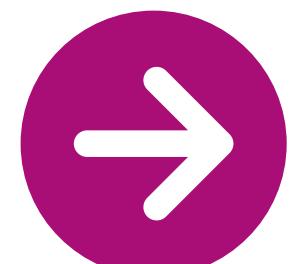
Progress

0/8 Solved
0 Attempting

Difficulty	Count
Easy	0
Med.	0/6
Hard	0/2

		↓↑	▽	🔍	✖
676. Implement Magic Dictionary	Med.				
421. Maximum XOR of Two Numbers in an Array	Med.				
648. Replace Words	Med.				
745. Prefix and Suffix Search	Hard				
208. Implement Trie (Prefix Tree)	Med.				
211. Design Add and Search Words Data Structure	Med.				
212. Word Search II	Hard				
1023. Camelcase Matching	Med.				

<https://leetcode.com/problem-list/5uyupjcr/>

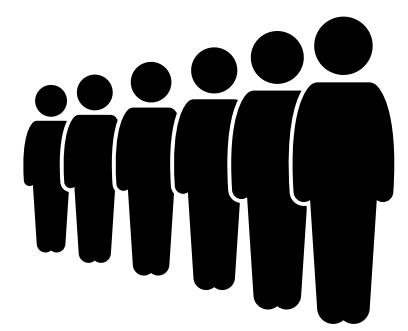


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Monotonic & Priority Queue

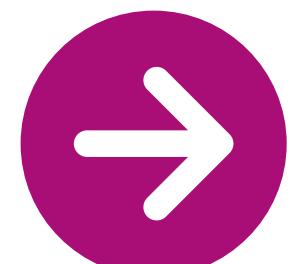


Useful for maintaining ordered sequences and optimizing real-time decision-making.

The screenshot shows a LeetCode problem list for the 'queue' category. The left sidebar displays the category name 'queue', the user 'Mahima Arora' (13 questions, 308 saved), and a 'Practice' button. Below the sidebar is a progress section showing '0/13 Solved' and attempting counts for 'Easy', 'Med.', and 'Hard' levels. The main area lists 15 problems, each with a title, difficulty level (Hard or Med.), and a progress bar:

Problem Title	Difficulty	Progress Bar
480. Sliding Window Median	Hard	
739. Daily Temperatures	Med.	
1425. Constrained Subsequence Sum	Hard	
295. Find Median from Data Stream	Hard	
901. Online Stock Span	Med.	
239. Sliding Window Maximum	Hard	
857. Minimum Cost to Hire K Workers	Hard	
907. Sum of Subarray Minimums	Med.	
84. Largest Rectangle in Histogram	Hard	
85. Maximal Rectangle	Hard	
375. Guess Number Higher or Lower II	Med.	
975. Odd Even Jump	Hard	
862. Shortest Subarray with Sum at Least K	Hard	

<https://leetcode.com/problem-list/9rt1jt27/>

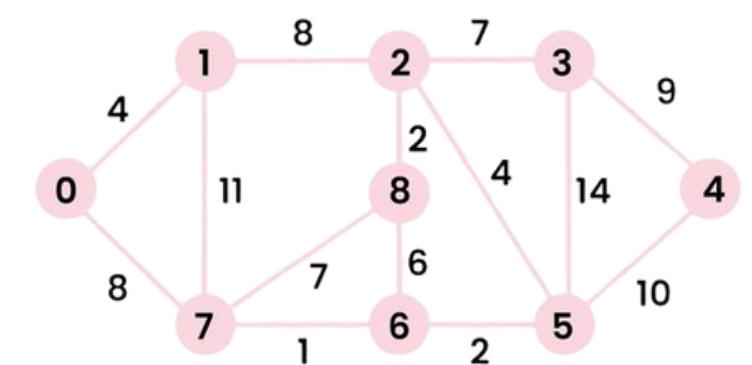


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Dijkstra's Algorithm

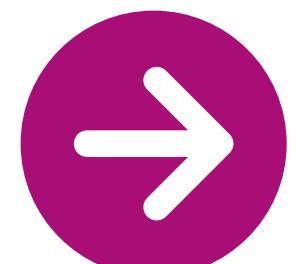


Key for shortest path problems in weighted graphs, widely used in maps and routing.

The screenshot shows a LeetCode practice list titled "Graph - Dijkstra's". It includes a sidebar with a "Practice" button, a progress summary (0/14 solved), and a list of 15 related problems. Each problem card displays the title, difficulty level (Med., Hard), and a progress bar.

Problem Title	Difficulty	Progress
787. Cheapest Flights Within K Stops	Med.	
1293. Shortest Path in a Grid with Obstacles Elimination	Hard	
743. Network Delay Time	Med.	
1976. Number of Ways to Arrive at Destination	Med.	
1514. Path with Maximum Probability	Med.	
1368. Minimum Cost to Make at Least One Valid Path i...	Hard	
1334. Find the City With the Smallest Number of...	Med.	
499. The Maze III	Hard	
1091. Shortest Path in Binary Matrix	Med.	
1631. Path With Minimum Effort	Med.	
882. Reachable Nodes In Subdivided Graph	Hard	
407. Trapping Rain Water II	Hard	
1786. Number of Restricted Paths From First to Last...	Med.	
505. The Maze II	Med.	

<https://leetcode.com/problem-list/9id5lube/>

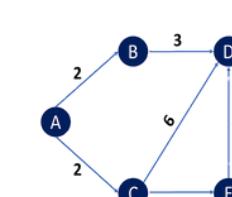


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Bellman-Ford Algorithm



	B	C	D	E
B	∞	∞	∞	∞
C	2	∞	∞	∞
D	2	2	∞	6
E	2	2	3	6
	2	2	3	6

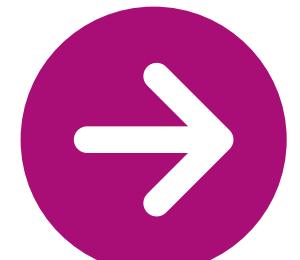
Similar to Dijkstra but works with negative weights, useful in finance and network routing.

The screenshot shows a LeetCode dashboard for the 'Bellman ford' problem list. On the left, there's a sidebar with a document icon, a 'Bellman ford' title, and a 'Practice' button. Below it is a progress section showing '0/5 Solved' and '0 Attempting'. On the right, there's a list of five problems:

- 787. Cheapest Flights Within K Stops (Med.)
- 743. Network Delay Time (Med.)
- 913. Cat and Mouse (Hard)
- 1631. Path With Minimum Effort (Med.)
- 1311. Get Watched Videos by Your Friends (Med.)

Each problem entry includes a difficulty rating (Med., Hard) and a progress bar consisting of five vertical bars.

<https://leetcode.com/problem-list/9id9smj2/>

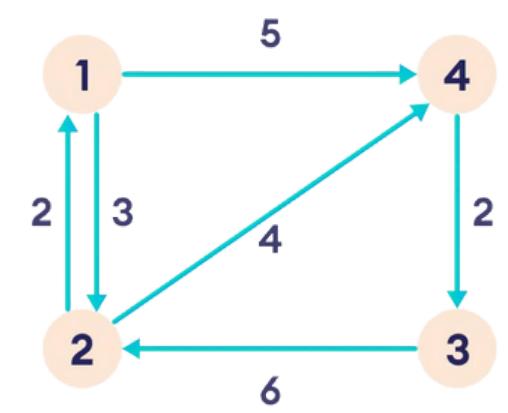


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Floyd-Warshall Algorithm



Used for finding shortest paths between all pairs of nodes in a graph.

Floyd Warshall

Joseph Cristiano · 6 questions · 333 Saved

Practice ☆ ↗ Ψ

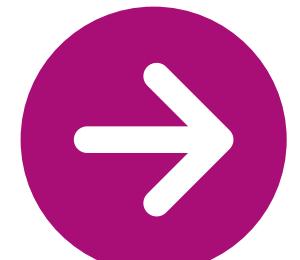
⚡ Updated: a few seconds ago

Progress

0/6 Solved 0 Attempting	Easy 0	Med. 0/6	Hard 0
--------------------------------------	-----------	-------------	-----------

787. Cheapest Flights Within K Stops	Med.	
743. Network Delay Time	Med.	
1976. Number of Ways to Arrive at Destination	Med.	
399. Evaluate Division	Med.	
1334. Find the City With the Smallest Number of...	Med.	
1462. Course Schedule IV	Med.	

<https://leetcode.com/problem-list/9idnenloe/>

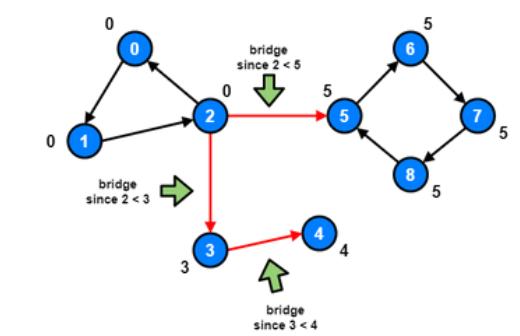


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Bridges & Articulation Points



Advanced graph concepts used for network reliability and vulnerability analysis.

The screenshot shows a LeetCode practice session for the topic "Bridges & articulation points".

Category: Bridges&articulation points

Created by: Joseph Cristiano · 6 questions · 282 Saved

Actions: Practice, Star, Share, Export

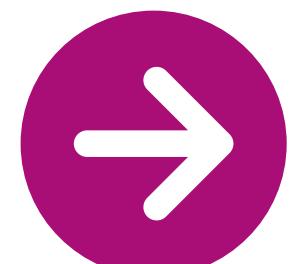
Last updated: Updated: a few seconds ago

Progress: 0/6 Solved (0 Attempting)

Problems:

Problem ID	Difficulty	Progress
924. Minimize Malware Spread	Hard
928. Minimize Malware Spread II	Hard
1584. Min Cost to Connect All Points	Med.
1489. Find Critical and Pseudo-Critical Edges in...	Hard
1192. Critical Connections in a Network	Hard
1568. Minimum Number of Days to Disconnect Island	Hard

<https://leetcode.com/problem-list/9id9ahz7/>

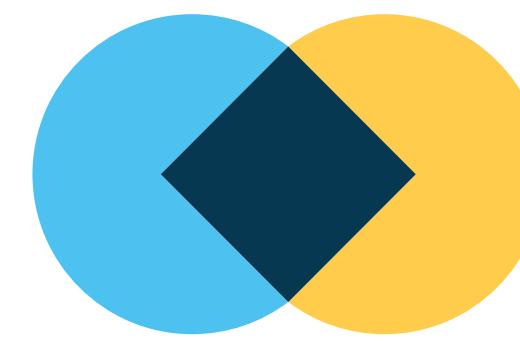


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Disjoint Set Union



Vital for connectivity problems, cycle detection, and Kruskal's algorithm.

DSU Problems @rowe
1227

kimiquokka · 25 questions · 629 Saved

▶ Practice

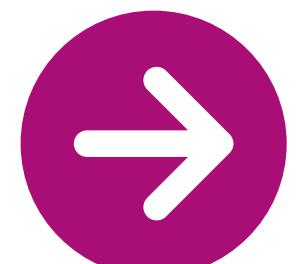
⚡ Updated: a few seconds ago

Progress

Category	Solved	Attempting
Easy	0	0
Med.	0	12
Hard	0	13

Problem	Difficulty	Progress
128. Longest Consecutive Sequence	Med.	<div style="width: 10%;">10%</div>
261. Graph Valid Tree	Med.	<div style="width: 10%;">10%</div>
990. Satisfiability of Equality Equations	Med.	<div style="width: 10%;">10%</div>
1697. Checking Existence of Edge Length Limited Paths	Hard	<div style="width: 10%;">10%</div>
1202. Smallest String With Swaps	Med.	<div style="width: 10%;">10%</div>
1061. Lexicographically Smallest Equivalent String	Med.	<div style="width: 10%;">10%</div>
547. Number of Provinces	Med.	<div style="width: 10%;">10%</div>
1319. Number of Operations to Make Network...	Med.	<div style="width: 10%;">10%</div>
1579. Remove Max Number of Edges to Keep Graph...	Hard	<div style="width: 10%;">10%</div>
1258. Synonymous Sentences	Med.	<div style="width: 10%;">10%</div>
305. Number of Islands II	Hard	<div style="width: 10%;">10%</div>
1101. The Earliest Moment When Everyone Become...	Med.	<div style="width: 10%;">10%</div>
924. Minimize Malware Spread	Hard	<div style="width: 10%;">10%</div>
928. Minimize Malware Spread II	Hard	<div style="width: 10%;">10%</div>
711. Number of Distinct Islands II	Hard	<div style="width: 10%;">10%</div>
1627. Graph Connectivity With Threshold	Hard	<div style="width: 10%;">10%</div>

<https://leetcode.com/problem-list/5lhmb4mj/>



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Bit Manipulation

10110
10110
01100

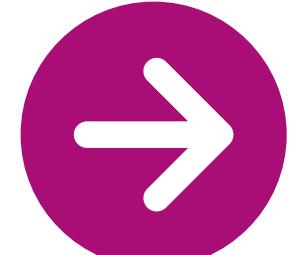
Optimizes mathematical operations, reduces memory usage, and speeds up calculations.

The screenshot shows the LeetCode platform interface. On the left, there's a sidebar with a document icon, the title "Bit Manipulation", the author "Joseph Cristiano", the count "30 questions", and the save count "429 Saved". Below this are buttons for "Practice", "Star", "Share", and "Export". A note says "Updated: a few seconds ago". Under "Progress", there's a circular progress bar showing "0/30 Solved" and "0 Attempting". To the right of the sidebar is a list of 18 bit manipulation problems, each with a title, difficulty level (Easy, Med., Hard), and a progress bar indicating completion status.

Problem Title	Difficulty	Completion Progress
1178. Number of Valid Words for Each Puzzle	Hard	██████
1290. Convert Binary Number in a Linked List to Integer	Easy	██████
260. Single Number III	Med.	██████
389. Find the Difference	Easy	██████
645. Set Mismatch	Easy	██████
136. Single Number	Easy	██████
137. Single Number II	Med.	██████
393. UTF-8 Validation	Med.	██████
268. Missing Number	Easy	██████
405. Convert a Number to Hexadecimal	Easy	██████
1009. Complement of Base 10 Integer	Easy	██████
287. Find the Duplicate Number	Med.	██████
1318. Minimum Flips to Make a OR b Equal to c	Med.	██████
421. Maximum XOR of Two Numbers in an Array	Med.	██████
169. Majority Element	Easy	██████
1734. Decode XORed Permutation	Med.	██████

Problem Title	Difficulty	Completion Progress
1178. Number of Valid Words for Each Puzzle	Hard	██████
1290. Convert Binary Number in a Linked List to Integer	Easy	██████
260. Single Number III	Med.	██████
389. Find the Difference	Easy	██████
645. Set Mismatch	Easy	██████
136. Single Number	Easy	██████
137. Single Number II	Med.	██████
393. UTF-8 Validation	Med.	██████
268. Missing Number	Easy	██████
405. Convert a Number to Hexadecimal	Easy	██████
1009. Complement of Base 10 Integer	Easy	██████
287. Find the Duplicate Number	Med.	██████
1318. Minimum Flips to Make a OR b Equal to c	Med.	██████
421. Maximum XOR of Two Numbers in an Array	Med.	██████
169. Majority Element	Easy	██████
1734. Decode XORed Permutation	Med.	██████

<https://leetcode.com/problem-list/92qvw6c6/>





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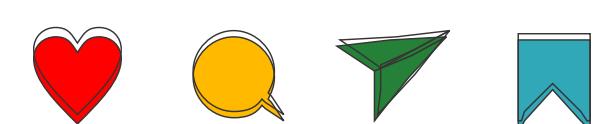
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What's Next?

Let me know what you're struggling with, and I'll bring the most helpful tips and resources to you.

It takes time and effort to prepare these valuable resources, but I'm committed to helping you.





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Your support keeps me motivated



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