

DSA Sheet by FRAZ (<https://www.youtube.com/c/FrazMohammad>)
CHECKOUT MY DSA Channel (<https://www.youtube.com/c/LeadCodingbyFRAZ>)

HOW TO FOLLOW THIS SHEET https://youtu.be/NXQi_g1pVqI
JOIN TELEGRAM CHANNEL FOR UPDATES <https://t.me/LeadCoding>

Arrays

EASY

<https://leetcode.com/problems/two-sum/>
<https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>
<https://leetcode.com/problems/plus-one/>
<https://leetcode.com/problems/move-zeroes/>
<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/>
<https://leetcode.com/problems/running-sum-of-1d-array/>
<https://leetcode.com/problems/find-pivot-index/>
<https://leetcode.com/problems/majority-element/>
<https://leetcode.com/problems/fibonacci-number/>
<https://leetcode.com/problems/squares-of-a-sorted-array/>
<https://leetcode.com/problems/pascals-triangle/>
<https://leetcode.com/problems/remove-duplicates-from-sorted-array/>

MEDIUM

<https://leetcode.com/problems/merge-intervals/>
<https://leetcode.com/problems/3sum/>
<https://leetcode.com/problems/product-of-array-except-self/>
<https://leetcode.com/problems/insert-delete-getrandom-o1/>
<https://leetcode.com/problems/subarray-sum-equals-k/>
<https://leetcode.com/problems/next-permutation/>
<https://leetcode.com/problems/spiral-matrix/>
<https://leetcode.com/problems/container-with-most-water/>
<https://leetcode.com/problems/rotate-image/>
<https://leetcode.com/problems/word-search/>
<https://leetcode.com/problems/3sum-closest/>
<https://leetcode.com/problems/game-of-life/>
<https://leetcode.com/problems/pairs-of-songs-with-total-durations-divisible-by-60/>
<https://leetcode.com/problems/4sum/>
<https://leetcode.com/problems/find-the-duplicate-number/>
<https://leetcode.com/problems/combination-sum/>
<https://leetcode.com/problems/jump-game-ii/>
<https://leetcode.com/problems/maximum-points-you-can-obtain-from-cards/>
<https://leetcode.com/problems/maximum-area-of-a-piece-of-cake-after-horizontal-and-vertical-cuts/>
<https://leetcode.com/problems/max-area-of-island/>
<https://leetcode.com/problems/find-all-duplicates-in-an-array/>
<https://leetcode.com/problems/k-diff-pairs-in-an-array/>

<https://leetcode.com/problems/subsets/>
<https://leetcode.com/problems/invalid-transactions/>
<https://leetcode.com/problems/jump-game/>
<https://leetcode.com/problems/subarray-sums-divisible-by-k/>

HARD

<https://leetcode.com/problems/first-missing-positive/>
<https://leetcode.com/problems/largest-rectangle-in-histogram/>
<https://leetcode.com/problems/insert-delete-getrandom-o1-duplicates-allowed/>
<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/>
<https://leetcode.com/problems/max-value-of-equation/>

RECURSION

- 1- What is recursion
- 2- How Recursion Works
- 3- What is a recursion tree
- 4- <https://leetcode.com/problems/powx-n/>
- 5- <https://leetcode.com/problems/valid-palindrome/>
- 6- General Steps to recursion problems
- 7- <https://leetcode.com/problems/subsets/>
- 8- <https://leetcode.com/problems/permutations/>
- 9- <https://leetcode.com/problems/permutations-ii/>
- 10- <https://leetcode.com/problems/subsets-ii/>
- 11- <https://leetcode.com/problems/combinations/>
- 12- <https://leetcode.com/problems/combination-sum/>
- 13- <https://leetcode.com/problems/combination-sum-ii/>
- 14- <https://leetcode.com/problems/combination-sum-iii/>
- 15- <https://leetcode.com/problems/letter-combinations-of-a-phone-number/>
- 16- <https://leetcode.com/problems/partition-to-k-equal-sum-subsets/>
- 17- <https://leetcode.com/problems/maximum-length-of-a-concatenated-string-with-unique-characters/>
- 18- <https://leetcode.com/problems/flood-fill/>
- 19- <https://leetcode.com/problems/word-search/>
- 20- Rat in a Maze
- 21- <https://leetcode.com/problems/n-queens/>

DYNAMIC PROGRAMING

EASY

<https://leetcode.com/problems/maximum-subarray/>
<https://leetcode.com/problems/climbing-stairs/>
<https://leetcode.com/problems/divisor-game/>
<https://leetcode.com/problems/counting-bits/>

MEDIUM

<https://leetcode.com/problems/decode-ways/>
<https://leetcode.com/problems/word-break/>
<https://leetcode.com/problems/delete-and-earn/>
<https://leetcode.com/problems/maximal-square/>

<https://leetcode.com/problems/coin-change/>
<https://leetcode.com/problems/maximum-product-subarray/>
<https://leetcode.com/problems/maximum-length-of-repeated-subarray/>
<https://leetcode.com/problems/palindromic-substrings/>
<https://leetcode.com/problems/house-robber/>
<https://leetcode.com/problems/continuous-subarray-sum/>
<https://leetcode.com/problems/knight-dialer/>
<https://leetcode.com/problems/longest-increasing-subsequence/>
<https://leetcode.com/problems/unique-paths/>
<https://leetcode.com/problems/count-square-submatrices-with-all-ones/>
<https://leetcode.com/problems/range-sum-query-2d-immutable/>
<https://leetcode.com/problems/longest-arithmetic-subsequence/>

HARD

<https://leetcode.com/problems/trapping-rain-water/>
<https://leetcode.com/problems/word-break-ii/>
<https://leetcode.com/problems/regular-expression-matching/>
<https://leetcode.com/problems/maximal-rectangle/>
<https://leetcode.com/problems/longest-valid-parentheses/>
<https://leetcode.com/problems/edit-distance/>
<https://leetcode.com/problems/minimum-difficulty-of-a-job-schedule/>
<https://leetcode.com/problems/frog-jump/>
<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iv/>
<https://leetcode.com/problems/burst-balloons/>
<https://leetcode.com/problems/minimum-cost-to-merge-stones/>
<https://leetcode.com/problems/minimum-insertion-steps-to-make-a-string-palindrome/>
<https://leetcode.com/problems/super-egg-drop/>
<https://leetcode.com/problems/count-different-palindromic-subsequences/>
<https://leetcode.com/problems/minimum-cost-to-cut-a-stick/>

STRINGS

EASY

<https://leetcode.com/problems/add-strings/>
<https://leetcode.com/problems/longest-common-prefix/>
<https://leetcode.com/problems/valid-palindrome-ii/>
<https://leetcode.com/problems/roman-to-integer/>
<https://leetcode.com/problems/implement-strstr/>

MEDIUM

<https://leetcode.com/problems/longest-substring-without-repeating-characters/>
<https://leetcode.com/problems/minimum-remove-to-make-valid-parentheses/>
<https://leetcode.com/problems/longest-palindromic-substring/>

<https://leetcode.com/problems/group-anagrams/>
<https://leetcode.com/problems/generate-parentheses/>
<https://leetcode.com/problems/basic-calculator-ii/>

<https://leetcode.com/problems/integer-to-roman/>
<https://leetcode.com/problems/reverse-words-in-a-string/>
<https://leetcode.com/problems/simplify-path/>
<https://leetcode.com/problems/zigzag-conversion/>

HARD

<https://leetcode.com/problems/text-justification/>
<https://leetcode.com/problems/integer-to-english-words/>
<https://leetcode.com/problems/minimum-window-substring/>
<https://leetcode.com/problems/valid-number/>
<https://leetcode.com/problems/distinct-subsequences/>
<https://leetcode.com/problems/smallest-range-covering-elements-from-k-lists/>
<https://leetcode.com/problems/substring-with-concatenation-of-all-words/>

MATHS

EASY

<https://leetcode.com/problems/reverse-integer/>
<https://leetcode.com/problems/add-binary/>
<https://leetcode.com/problems/palindrome-number/>
<https://leetcode.com/problems/minimum-moves-to-equal-array-elements/>
<https://leetcode.com/problems/happy-number/>
<https://leetcode.com/problems/excel-sheet-column-title/>
<https://leetcode.com/problems/missing-number/>
<https://leetcode.com/problems/maximum-product-of-three-numbers/>
<https://leetcode.com/problems/power-of-two/>

MEDIUM

<https://leetcode.com/problems/encode-and-decode-tinyurl/>
<https://leetcode.com/problems/string-to-integer-atoi/>
<https://leetcode.com/problems/multiply-strings/>
<https://leetcode.com/problems/angle-between-hands-of-a-clock/>
<https://leetcode.com/problems/integer-break/>
<https://leetcode.com/problems/valid-square/>
<https://leetcode.com/problems/the-kth-factor-of-n/>

HARD

<https://leetcode.com/problems/basic-calculator/>
<https://leetcode.com/problems/max-points-on-a-line/>
<https://leetcode.com/problems/permutation-sequence/>
<https://leetcode.com/problems/number-of-digit-one/>

GREEDY

EASY

THAT WOULD BE TOO EASY FOR YOU , LETS DO MEDIUM

MEDIUM

<https://leetcode.com/problems/task-scheduler/>
<https://leetcode.com/problems/gas-station/>
<https://leetcode.com/problems/minimum-deletion-cost-to-avoid-repeating-letters/>
<https://leetcode.com/problems/maximum-number-of-events-that-can-be-attended/>
<https://leetcode.com/problems/minimum-deletions-to-make-character-frequencies-unique/>
<https://leetcode.com/problems/remove-k-digits/>
<https://leetcode.com/problems/restore-the-array-from-adjacent-pairs/>
<https://leetcode.com/problems/non-overlapping-intervals/>

HARD

<https://leetcode.com/problems/candy/>
<https://leetcode.com/problems/minimum-number-of-taps-to-open-to-water-a-garden/>
<https://leetcode.com/problems/create-maximum-number/>

DFS

MEDIUM

<https://leetcode.com/problems/letter-combinations-of-a-phone-number/>
<https://leetcode.com/problems/course-schedule-ii/>
<https://leetcode.com/problems/decode-string/>
<https://leetcode.com/problems/number-of-provinces/>
<https://leetcode.com/problems/clone-graph/>
<https://leetcode.com/problems/shortest-bridge/>
<https://leetcode.com/problems/all-paths-from-source-to-target/>
<https://leetcode.com/problems/surrounded-regions/>
<https://leetcode.com/problems/house-robber-iii/>

HARD

<https://leetcode.com/problems/critical-connections-in-a-network/>
<https://leetcode.com/problems/remove-invalid-parentheses/>
<https://leetcode.com/problems/longest-increasing-path-in-a-matrix/>
<https://leetcode.com/problems/concatenated-words/>
<https://leetcode.com/problems/making-a-large-island/>
<https://leetcode.com/problems/contain-virus/>
<https://leetcode.com/problems/24-game/>
<https://leetcode.com/problems/remove-boxes/>

TREE

EASY

<https://leetcode.com/problems/diameter-of-binary-tree/>
<https://leetcode.com/problems/invert-binary-tree/>
<https://leetcode.com/problems/subtree-of-another-tree/>
<https://leetcode.com/problems/range-sum-of-bst/>
<https://leetcode.com/problems/symmetric-tree/>
<https://leetcode.com/problems/convert-sorted-array-to-binary-search-tree/>
<https://leetcode.com/problems/merge-two-binary-trees/>
<https://leetcode.com/problems/maximum-depth-of-binary-tree/>

<https://leetcode.com/problems/binary-tree-paths/>
<https://leetcode.com/problems/same-tree/>
<https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/>
<https://leetcode.com/problems/path-sum/>
<https://leetcode.com/problems/minimum-absolute-difference-in-bst/>
<https://leetcode.com/problems/sum-of-left-leaves/>
<https://leetcode.com/problems/balanced-binary-tree/>
<https://leetcode.com/problems/binary-tree-inorder-traversal/> (USING STACK TOO)

MEDIUM

<https://leetcode.com/problems/count-good-nodes-in-binary-tree/>
<https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/>
<https://leetcode.com/problems/binary-tree-right-side-view/>
<https://leetcode.com/problems/all-nodes-distance-k-in-binary-tree/>
<https://leetcode.com/problems/validate-binary-search-tree/>
<https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/>
<https://leetcode.com/problems/binary-search-tree-iterator/>
<https://leetcode.com/problems/binary-tree-level-order-traversal/>
<https://leetcode.com/problems/path-sum-iii/>
<https://leetcode.com/problems/construct-binary-tree-from-preorder-and-postorder-traversal/>
<https://leetcode.com/problems/unique-binary-search-trees/>
<https://leetcode.com/problems/recover-binary-search-tree/>
<https://leetcode.com/problems/populating-next-right-pointers-in-each-node/>
<https://leetcode.com/problems/flatten-binary-tree-to-linked-list/>
<https://leetcode.com/problems/maximum-width-of-binary-tree/>
<https://leetcode.com/problems/unique-binary-search-trees-ii/>
<https://leetcode.com/problems/kth-smallest-element-in-a-bst/>
<https://leetcode.com/problems/redundant-connection/>

HARD

<https://leetcode.com/problems/serialize-and-deserialize-binary-tree/>
<https://leetcode.com/problems/binary-tree-maximum-path-sum/>
<https://leetcode.com/problems/vertical-order-traversal-of-a-binary-tree/>
<https://leetcode.com/problems/binary-tree-cameras/>
<https://leetcode.com/problems/sum-of-distances-in-tree/>
<https://leetcode.com/problems/number-of-ways-to-reconstruct-a-tree/>
<https://leetcode.com/problems/redundant-connection-ii/>

HASH TABLE

EASY

<https://leetcode.com/problems/verifying-an-alien-dictionary/>
<https://leetcode.com/problems/design-hashmap/>

MEDIUM

<https://leetcode.com/problems/top-k-frequent-elements/>
<https://leetcode.com/problems/design-twitter/>

BINARY SEARCH

EASY

<https://leetcode.com/problems/sqrtx/>

<https://leetcode.com/problems/binary-search/>

<https://leetcode.com/problems/count-negative-numbers-in-a-sorted-matrix/>

<https://leetcode.com/problems/peak-index-in-a-mountain-array/>

MEDIUM

<https://leetcode.com/problems/time-based-key-value-store/>

<https://leetcode.com/problems/search-in-rotated-sorted-array/>

<https://leetcode.com/problems/powx-n/>

<https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/>

<https://leetcode.com/problems/find-peak-element/>

<https://leetcode.com/problems/search-a-2d-matrix/>

<https://leetcode.com/problems/divide-two-integers/>

<https://leetcode.com/problems/capacity-to-ship-packages-within-d-days/>

<https://leetcode.com/problems/minimum-limit-of-balls-in-a-bag/>

HARD

<https://leetcode.com/problems/median-of-two-sorted-arrays/>

<https://leetcode.com/problems/count-of-smaller-numbers-after-self/>

<https://leetcode.com/problems/max-sum-of-rectangle-no-larger-than-k/>

<https://leetcode.com/problems/split-array-largest-sum/>

<https://leetcode.com/problems/shortest-subarray-with-sum-at-least-k/>

BFS

MEDIUM

<https://leetcode.com/problems/number-of-islands/>

<https://leetcode.com/problems/rotting-oranges/>

<https://leetcode.com/problems/snakes-and-ladders/>

<https://leetcode.com/problems/is-graph-bipartite/>

<https://leetcode.com/problems/minimum-jumps-to-reach-home/>

HARD

<https://leetcode.com/problems/word-ladder/>

<https://leetcode.com/problems/word-ladder-ii/>

<https://leetcode.com/problems/cut-off-trees-for-golf-event/>

<https://leetcode.com/problems/reachable-nodes-in-subdivided-graph/>

TWO POINTER

MEDIUM / HARD

<https://leetcode.com/problems/partition-labels/>

<https://leetcode.com/problems/sort-colors/>

<https://leetcode.com/problems/longest-repeating-character-replacement/>

<https://leetcode.com/problems/maximum-number-of-visible-points/>

<https://leetcode.com/problems/subarrays-with-k-different-integers/>

STACK

EASY

<https://leetcode.com/problems/min-stack/>

<https://leetcode.com/problems/next-greater-element-i/>

<https://leetcode.com/problems/backspace-string-compare/>

<https://leetcode.com/problems/implement-queue-using-stacks/>

PRE , POST , INORDER TRAVERSALS OF BINARY TREE

<https://leetcode.com/problems/implement-stack-using-queues/>

MEDIUM

<https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string-ii/>

<https://leetcode.com/problems/daily-temperatures/>

<https://leetcode.com/problems/flatten-nested-list-iterator/>

<https://leetcode.com/problems/online-stock-span/>

<https://leetcode.com/problems/minimum-cost-tree-from-leaf-values/>

<https://leetcode.com/problems/sum-of-subarray-minimums/>

<https://leetcode.com/problems/evaluate-reverse-polish-notation/>

DESIGN

MEDIUM / HARD

<https://leetcode.com/problems/lru-cache/>

<https://leetcode.com/problems/find-median-from-data-stream/>

<https://leetcode.com/problems/design-underground-system/>

<https://leetcode.com/problems/lfu-cache/>

<https://leetcode.com/problems/tweet-counts-per-frequency/>

<https://leetcode.com/problems/all-oone-data-structure/>

<https://leetcode.com/problems/design-browser-history/>

GRAPH

EASY

<https://leetcode.com/problems/employee-importance/>

<https://leetcode.com/problems/find-the-town-judge/>

MEDIUM

<https://leetcode.com/problems/evaluate-division/>

<https://leetcode.com/problems/accounts-merge/>

<https://leetcode.com/problems/network-delay-time/>

<https://leetcode.com/problems/find-eventual-safe-states/>

<https://leetcode.com/problems/keys-and-rooms/>

<https://leetcode.com/problems/possible-bipartition/>

<https://leetcode.com/problems/most-stones-removed-with-same-row-or-column/>

<https://leetcode.com/problems/regions-cut-by-slashes/>

<https://leetcode.com/problems/satisfiability-of-equality-equations/>

<https://leetcode.com/problems/as-far-from-land-as-possible/>

<https://leetcode.com/problems/number-of-closed-islands/>
<https://leetcode.com/problems/number-of-operations-to-make-network-connected/>
<https://leetcode.com/problems/find-the-city-with-the-smallest-number-of-neighbors-at-a-threshold-distance/>
<https://leetcode.com/problems/time-needed-to-inform-all-employees/>

BIT MANIPULATION

<https://leetcode.com/problems/sum-of-two-integers/discuss/84278/A-summary%3A-how-to-use-bit-manipulation-to-s>

LINKED LIST

- 1- Uses of Linked List (Real Life)
- 2- Representation of Linked List
- 3- <https://leetcode.com/problems/delete-node-in-a-linked-list/>
- 4- Arrays vs Linked List
- 5- <https://leetcode.com/problems/middle-of-the-linked-list/>
- 6- <https://leetcode.com/problems/convert-binary-number-in-a-linked-list-to-integer/>
- 7- Doubly Linked List and STLs
- 8- <https://leetcode.com/problems/design-hashset/>
- 9- <https://leetcode.com/problems/design-hashmap/>
- 10- <https://leetcode.com/problems/reverse-linked-list/>
- 11- Reverse Nodes in k-Group [<https://leetcode.com/problems/reverse-nodes-in-k-group/>]
- 12- Reverse Nodes in k-Group (NO EXTRA SPACE)
- 13- <https://leetcode.com/problems/merge-two-sorted-lists/>
- 14- <https://leetcode.com/problems/merge-k-sorted-lists/>
- 15- <https://leetcode.com/problems/remove-duplicates-from-sorted-list/>
- 16- <https://leetcode.com/problems/linked-list-cycle/>
- 17- <https://leetcode.com/problems/linked-list-cycle-ii/>
- 18- <https://leetcode.com/problems/intersection-of-two-linked-lists/>
- 19- <https://leetcode.com/problems/palindrome-linked-list/>
- 20- <https://leetcode.com/problems/remove-linked-list-elements/>
- 21- <https://leetcode.com/problems/design-browser-history/>
- 22- <https://leetcode.com/problems/lru-cache/>
- 23- Copy List with Random Pointer (with extra space) [<https://leetcode.com/problems/copy-list-with-random-pointe>]
- 24- Copy List with Random Pointer (NO extra space)

HEAP

MEDIUM

<https://leetcode.com/problems/k-closest-points-to-origin/>
<https://leetcode.com/problems/kth-largest-element-in-an-array/>
<https://leetcode.com/problems/reorganize-string/>
<https://leetcode.com/problems/furthest-building-you-can-reach/>
<https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/>
<https://leetcode.com/problems/cheapest-flights-within-k-stops/>
<https://leetcode.com/problems/find-the-most-competitive-subsequence/>
<https://leetcode.com/problems/ugly-number-ii/>

HARD

<https://leetcode.com/problems/merge-k-sorted-lists/>
<https://leetcode.com/problems/sliding-window-maximum/>
<https://leetcode.com/problems/the-skyline-problem/>
<https://leetcode.com/problems/trapping-rain-water-ii/>
<https://leetcode.com/problems/minimum-number-of-refueling-stops/>
<https://leetcode.com/problems/swim-in-rising-water/>
<https://leetcode.com/problems/shortest-path-to-get-all-keys/>
<https://leetcode.com/problems/minimum-cost-to-hire-k-workers/>
<https://leetcode.com/problems/k-th-smallest-prime-fraction/>

SLIDING WINDOW

MEDIUM/HARD

<https://leetcode.com/problems/longest-substring-with-at-least-k-repeating-characters/>
<https://leetcode.com/problems/max-consecutive-ones-iii/>
<https://leetcode.com/problems/grumpy-bookstore-owner/>
<https://leetcode.com/problems/sliding-window-median/>

TRIE

<https://leetcode.com/explore/learn/card/trie/>

SEGMENT TREE

<https://leetcode.com/articles/a-recursive-approach-to-segment-trees-range-sum-queries-lazy-propagation/>

Editorials

https://www.youtube.com/watch?v=o2WOHGSfx_8

<https://www.youtube.com/watch?v=XIWYkOHE1SE>

<https://www.youtube.com/watch?v=FyzWXISMNoI>

<https://www.youtube.com/watch?v=mgzciQ1x9Mw>

<https://www.youtube.com/watch?v=3gtcRtvDCpA>

<https://leetcode.com/problems/running-sum-of-1d-array/discuss/686261/JavaC%2B%2BPython-Arra>

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