DSA Sheet by FRAZ (https://www.youtube.com/c/leadcoding)

HOW TO FOLLOW THIS SHEET https://youtu.be/NXQi_g1pVqI
JOIN TELEGRAM CHANNEL FOR UPDATES https://t.me/LeadCoding
Prepare for Online Assessment Round https://www.youtube.com/playlist?list=PLKZaSt2df1gyhfCL29mX2a34Wo-S4ZthH

Arrays	Editorials

EASY

https://leetcode.com/problems/two-sum/	https://www.youtube.com/watch?v=o2WOhGSfx_8
https://leetcode.com/problems/best-time-to-buy-and-sell-stock/	https://www.youtube.com/watch?v=XIWykOHE1SE
https://leetcode.com/problems/plus-one/	https://www.youtube.com/watch?v=FyzWXISMNoI
https://leetcode.com/problems/move-zeroes/	https://www.youtube.com/watch?v=mgzcjQ1x9Mw
https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/	https://www.youtube.com/watch?v=3gtcRtvDCpA
https://leetcode.com/problems/running-sum-of-1d-array/	https://leetcode.com/problems/running-sum-of-1d-array/discuss/686261/JavaC%2B%2BPython-Array-Time-O(N)-Space-O(1)
https://leetcode.com/problems/find-pivot-index/	https://leetcode.com/problems/find-pivot-index/discuss/411318/Java%3A-beats100-1ms-easy-understanding-solution
https://leetcode.com/problems/majority-element/	https://www.youtube.com/watch?v=PqU48t80rn8
https://leetcode.com/problems/fibonacci-number/	https://www.youtube.com/watch?v=MyFe2W2nIEE&list=PLKZaSt2df1gxtem7J8QqY8m2bHliz8mPt
https://leetcode.com/problems/squares-of-a-sorted-array/	https://leetcode.com/problems/squares-of-a-sorted-array/discuss/495394/C%2B%2B%3A-Simplest-one-pass-two-pointers
https://leetcode.com/problems/pascals-triangle/	https://leetcode.com/problems/pascals-triangle/discuss/38125/Solution-in-Java
https://leetcode.com/problems/remove-duplicates-from-sorted-array/	https://leetcode.com/problems/remove-duplicates-from-sorted-array/discuss/11782/Share-my-clean-C%2B%2B-code

MEDIUM

https://leetcode.com/problems/merge-intervals/	https://leetcode.com/problems/merge-intervals/discuss/21222/A-simple-Java-solution
https://leetcode.com/problems/3sum/	https://www.youtube.com/watch?v=TeegtfmEhTY
https://leetcode.com/problems/product-of-array-except-self/	https://www.youtube.com/watch?v=3X9-qs1Lwe4
https://leetcode.com/problems/insert-delete-getrandom-o1/	(Check the comment section of this post) https://leetcode.com/problems/insert-delete-getrandom-o1/discuss/85422/AC-C%2B%2B-Solution.-Unordered_map-%2B-Vector
https://leetcode.com/problems/subarray-sum-equals-k/	https://leetcode.com/problems/subarray-sum-equals-k/discuss/301242/General-summary-of-what-kind-of-problem-can-cannot-solved-by-Two-Pointers
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://www.youtube.com/watch?v=UG1C-otvF2U
https://leetcode.com/problems/find-the-duplicate-number/	
https://leetcode.com/problems/combination-sum/	https://www.youtube.com/watch?v=yEAHwSS8HN0
https://leetcode.com/problems/jump-game-ii/	https://www.youtube.com/watch?v=1DkVU2i3sOA
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://www.youtube.com/watch?v=6BPurabdAl4
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://www.youtube.com/watch?v=YAWRyWJalM0
https://leetcode.com/problems/max-value-of-equation/	https://www.youtube.com/watch?v=hOTpn8jE9jI

DYNAMIC PROGRAMING

EASY

https://leetcode.com/problems/maximum-subarray/

https://leetcode.com/problems/climbing-stairs

https://leetcode.com/problems/divisor-game/   https://www.youtube.com/watch?v=UbE4-ONpJcc

https://leetcode.com/problems/counting-bits/

MEDIUM

https://leetcode.com/problems/decode-ways/   https://www.youtube.com/watch?v=N5i7ySYQcgM

https://leetcode.com/problems/word-break/   https://www.youtube.com/watch?v=_ilK7Gu7MNo

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://www.youtube.com/watch?v=8BdXDakKZEs

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://www.youtube.com/watch?v=mFwf1YbH-Jk

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://www.youtube.com/watch?v=NVIm5_TlqUs

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://www.youtube.com/watch?v=ocDwEjRVDAk
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/

BACKTRACKING

MEDIUM
https://leetcode.com/problems/palindrome-partitioning/
https://leetcode.com/problems/combination-sum-ii/
https://leetcode.com/problems/combinations/
https://leetcode.com/problems/permutations-ii/
https://leetcode.com/problems/subsets-ii/
https://leetcode.com/problems/beautiful-arrangement/

HARD
https://leetcode.com/problems/word-search-ii/
https://leetcode.com/problems/sudoku-solver/
https://leetcode.com/problems/n-queens/
https://leetcode.com/problems/unique-paths-iii/

STACK

EASY
https://leetcode.com/problems/min-stack/
https://leetcode.com/problems/next-greater-element-i/   https://www.youtube.com/watch?v=TunTV2-griM
https://leetcode.com/problems/backspace-string-compare/
https://leetcode.com/problems/implement-queue-using-stacks/
PRE , POST , INORDER TRAVERSALS OF BINARY TREE   https://www.youtube.com/watch?v=B9bSSOnc0CQ,https://www.youtube.com/watch?v=oUbZurIKnsY ,
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://www.youtube.com/watch?v=9-TXIVEXX2w
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-solve-problems-easily-and-efficiently

LINKED LIST

EASY

https://leetcode.com/problems/delete-node-in-a-linked-list/
https://leetcode.com/problems/middle-of-the-linked-list/
https://leetcode.com/problems/convert-binary-number-in-a-linked-list-to-integer/
https://leetcode.com/problems/design-hashset/
https://leetcode.com/problems/design-hashmap/
https://leetcode.com/problems/reverse-linked-list/
https://leetcode.com/problems/merge-two-sorted-lists/
https://leetcode.com/problems/remove-duplicates-from-sorted-list/
https://leetcode.com/problems/intersection-of-two-linked-lists/
https://leetcode.com/problems/linked-list-cycle/
https://leetcode.com/problems/palindrome-linked-list/
https://leetcode.com/problems/remove-linked-list-elements/

MEDIUM

https://leetcode.com/problems/add-two-numbers/
https://leetcode.com/problems/copy-list-with-random-pointer/
https://leetcode.com/problems/add-two-numbers-ii/
https://leetcode.com/problems/reverse-linked-list-ii/
https://leetcode.com/problems/reorder-list/
https://leetcode.com/problems/remove-nth-node-from-end-of-list/
https://leetcode.com/problems/flatten-a-multilevel-doubly-linked-list/
https://leetcode.com/problems/partition-list/
https://leetcode.com/problems/remove-duplicates-from-sorted-list-ii/
https://leetcode.com/problems/odd-even-linked-list/
https://leetcode.com/problems/sort-list/
https://leetcode.com/problems/swap-nodes-in-pairs/
https://leetcode.com/problems/rotate-list/

HARD

https://leetcode.com/problems/merge-k-sorted-lists/
https://leetcode.com/problems/reverse-nodes-in-k-group/

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/