Questions to be solved in leetcode

**CONTENT:**

1. **ARRAYS**
2. **STRINGS**
3. **SLIDING WINDOW AND TWO POINTERS**
4. **RECURSION AND BACKTRACKING**
5. **BIT MANIPULATION**
6. **HASHMAP**
7. **HEAPS**
8. **BINARY SEARCH**
9. **LINKEDLIST**
10. **STACKS AND QUEUES**
11. **TREES**
12. **TRIE**
13. **DYNAMIC PROGRAMMING**
14. **GRAPHS**

|  |  |  |
| --- | --- | --- |
| no | Questions | Done |
|  | **ARRAYS** |  |
|  |  |  |
| 1 | [Rotate Array](https://leetcode.com/problems/rotate-array/) |  |
| 2 | [Squares of a sorted array](https://leetcode.com/problems/squares-of-a-sorted-array/) |  |
| 3 | [Kadane's Algo](https://leetcode.com/problems/maximum-subarray/) |  |
| 4 | [Check if Array Is Sorted and Rotated - LeetCode](https://leetcode.com/problems/check-if-array-is-sorted-and-rotated/description/) |  |
| 5 | [Remove Duplicates from Sorted Array - LeetCode](https://leetcode.com/problems/remove-duplicates-from-sorted-array/description/) |  |
| 6 | [Move Zeroes - LeetCode](https://leetcode.com/problems/move-zeroes/description/) |  |
| 7 | [Max Consecutive Ones - LeetCode](https://leetcode.com/problems/max-consecutive-ones/description/) |  |
| 8 | [Single Number - LeetCode](https://leetcode.com/problems/single-number/description/) |  |
| 9 | [Two Sum - LeetCode](https://leetcode.com/problems/two-sum/description/) |  |
| 10 | [Sort Colors - LeetCode](https://leetcode.com/problems/sort-colors/description/) |  |
| 11 | [maximum product subarray](https://leetcode.com/problems/maximum-product-subarray/) |  |
| 12 | [majority element](https://leetcode.com/problems/majority-element/) |  |
| 13 | [majority element 2](https://leetcode.com/problems/majority-element-ii/) |  |
| 14 | [Next Greater Element III](https://leetcode.com/problems/next-greater-element-iii) |  |
| 15 | [Max chunks to make sorted](https://leetcode.com/problems/max-chunks-to-make-sorted/) |  |
| 16 | [Max Chunks To Make Sorted II](https://leetcode.com/problems/max-chunks-to-make-sorted-ii) |  |
| 17 | [number of subarrays with bounded maximum](https://leetcode.com/problems/number-of-subarrays-with-bounded-maximum/) |  |
| 18 | [First missing positive](https://leetcode.com/problems/first-missing-positive/) |  |
| 19 | [Range Addition](https://www.lintcode.com/problem/range-addition/description) |  |
| 20 | [Min No. of Platform](https://www.geeksforgeeks.org/minimum-number-platforms-required-railwaybus-station/) |  |
| 21 | [Trapping rain water](https://leetcode.com/problems/trapping-rain-water/) |  |
| 22 | [Best Time to Buy and Sell Stock - LeetCode](https://leetcode.com/problems/best-time-to-buy-and-sell-stock/description/) |  |
|  |  |  |
|  | **STRINGS** |  |
|  |  |  |
| 23 | [Remove Outermost Parentheses - LeetCode](https://leetcode.com/problems/remove-outermost-parentheses/description/) |  |
| 24 | [Reverse Words in a String - LeetCode](https://leetcode.com/problems/reverse-words-in-a-string/description/) |  |
| 25 | [Largest Odd Number in String - LeetCode](https://leetcode.com/problems/largest-odd-number-in-string/description/) |  |
| 26 | [Longest Common Prefix - LeetCode](https://leetcode.com/problems/longest-common-prefix/description/) |  |
| 27 | [Isomorphic Strings - LeetCode](https://leetcode.com/problems/isomorphic-strings/description/) |  |
| 28 | [Rotate String - LeetCode](https://leetcode.com/problems/rotate-string/description/) |  |
| 29 | [Valid Anagram - LeetCode](https://leetcode.com/problems/valid-anagram/description/) |  |
| 30 | [Sort Characters By Frequency - LeetCode](https://leetcode.com/problems/sort-characters-by-frequency/description/) |  |
| 31 | [Maximum Nesting Depth of the Parentheses - LeetCode](https://leetcode.com/problems/maximum-nesting-depth-of-the-parentheses/description/) |  |
| 32 | [Roman to Integer - LeetCode](https://leetcode.com/problems/roman-to-integer/description/) |  |
| 33 | [String to Integer (atoi) - LeetCode](https://leetcode.com/problems/string-to-integer-atoi/description/) |  |
| 34 | [Longest Palindromic Substring -](https://leetcode.com/problems/longest-palindromic-substring/description/) [LeetCode](https://leetcode.com/problems/longest-palindromic-substring/description/) |  |
| 35 | [Sum of Beauty of All Substrings - LeetCode](https://leetcode.com/problems/sum-of-beauty-of-all-substrings/description/) |  |
| 36 | [Reverse Words in a String - LeetCode](https://leetcode.com/problems/reverse-words-in-a-string/description/) |  |
|  |  |  |
|  | **SLIDING WINDOW AND TWO POINTERS** |  |
|  |  |  |
| 37 | [Container With Most Water](https://leetcode.com/problems/container-with-most-water) |  |
| 38 | [Two Sum](https://www.geeksforgeeks.org/given-an-array-a-and-a-number-x-check-for-pair-in-a-with-sum-as-x/) |  |
| 39 | [Two Difference](https://www.geeksforgeeks.org/find-a-pair-with-the-given-difference/) |  |
| 40 | [Longest Substring Without Repeating Characters - LeetCode](https://leetcode.com/problems/longest-substring-without-repeating-characters/description/) |  |
| 41 | [Max Consecutive Ones III - LeetCode](https://leetcode.com/problems/max-consecutive-ones-iii/description/) |  |
| 42 | [Longest Repeating Character Replacement - LeetCode](https://leetcode.com/problems/longest-repeating-character-replacement/description/) |  |
| 43 | [Binary Subarrays With Sum - LeetCode](https://leetcode.com/problems/binary-subarrays-with-sum/description/) |  |
| 44 | [Count Number of Nice Subarrays - LeetCode](https://leetcode.com/problems/count-number-of-nice-subarrays/description/) |  |
| 45 | [Number of Substrings Containing All Three](https://leetcode.com/problems/number-of-substrings-containing-all-three-characters/description/)  [Characters - LeetCode](https://leetcode.com/problems/number-of-substrings-containing-all-three-characters/description/) |  |
| 46 | [Maximum Points You Can Obtain from](https://leetcode.com/problems/maximum-points-you-can-obtain-from-cards/description/)  [Cards - LeetCode](https://leetcode.com/problems/maximum-points-you-can-obtain-from-cards/description/) |  |
|  |  |  |
|  | **RECURSION AND BACKTRACKING** |  |
|  |  |  |
| 47 | [Permutations](https://leetcode.com/problems/permutations/) |  |
| 48 | [Permutation Sequence](https://leetcode.com/problems/permutation-sequence/) |  |
| 49 | [Combination Sum](https://leetcode.com/problems/combination-sum/) |  |
| 50 | [Cmbination Sum 2](https://leetcode.com/problems/combination-sum-ii/) |  |

|  |  |  |
| --- | --- | --- |
| 51 | [Letter combination of Phone number](https://leetcode.com/problems/letter-combinations-of-a-phone-number/) |  |
| 52 | [N Queens](https://leetcode.com/problems/n-queens/) |  |
| 53 | [Rat in a Maze Path](https://practice.geeksforgeeks.org/problems/rat-in-a-maze-problem/1) |  |
|  |  |  |
|  | **BIT MANIPULATION** |  |
|  |  |  |
| 54 | [Single Element](https://leetcode.com/problems/single-number/) |  |
| 55 | [Single Element 2](https://leetcode.com/problems/single-number-ii/) |  |
| 56 | [Single Number 3](https://leetcode.com/problems/single-number-iii/) |  |
| 57 | [Divide 2 Integers](https://leetcode.com/problems/divide-two-integers/) |  |
| 58 | [Max AND Pair.](https://practice.geeksforgeeks.org/problems/maximum-and-value-1587115620/1) |  |
|  |  |  |
|  | **HASHMAP** |  |
|  |  |  |
| 59 | [Check AP sequence](https://www.geeksforgeeks.org/check-whether-arithmetic-progression-can-formed-given-array/) |  |
| 60 | [Grid illumination](https://leetcode.com/problems/grid-illumination/) |  |
| 61 | [Brick wall](https://leetcode.com/problems/brick-wall/) |  |
| 62 | [Count of subarray with sum = k](https://leetcode.com/problems/subarray-sum-equals-k/) |  |
| 63 | [Subarray sum divisible by K](https://leetcode.com/problems/subarray-sums-divisible-by-k/) |  |
| 64 | [Insert Delete GetRandom O(1)](https://leetcode.com/problems/insert-delete-getrandom-o1/) |  |
| 65 | [Insert delete get random duplicates allowed](https://leetcode.com/problems/insert-delete-getrandom-o1-duplicates-allowed/) |  |
| 66 | [Longest consecutive sequence](https://leetcode.com/problems/longest-consecutive-sequence/) |  |
| 67 | [Find all anagrams in a string](https://leetcode.com/problems/find-all-anagrams-in-a-string/) |  |
| 68 | [Find smallest size of string containing all char of other](https://leetcode.com/problems/minimum-window-substring/) |  |
| 69 | [Write hashmap](https://www.pepcoding.com/resources/online-java-foundation/hashmap-and-heap/hashmap-official/ojquestion) |  |
| 70 | [subarray with equal number of 0 and 1](https://www.geeksforgeeks.org/count-subarrays-equal-number-1s-0s/) |  |
| 71 | [Substring with equal 0 1 and 2](https://www.geeksforgeeks.org/substring-equal-number-0-1-2/) |  |
|  |  |  |
|  | **HEAPS** |  |
|  |  |  |
| 72 | [Kth Largest Element](https://leetcode.com/problems/kth-largest-element-in-an-array/) |  |
| 73 | [Minimum number of refueling spots](https://leetcode.com/problems/minimum-number-of-refueling-stops/) |  |
| 74 | [minimum cost to connect sticks](https://leetcode.com/problems/minimum-cost-to-connect-sticks/) |  |
| 75 | [Employee Free time](https://leetcode.com/problems/employee-free-time/) |  |
| 76 | [Find Median from Data Stream](https://leetcode.com/problems/find-median-from-data-stream/) |  |
|  |  |  |
|  | **BINARY SEARCH** |  |
|  |  |  |
| 77 | [capacity to ship within D days](https://leetcode.com/problems/capacity-to-ship-packages-within-d-days/) |  |
| 78 | [Painter's partition problem](https://www.interviewbit.com/problems/painters-partition-problem/) |  |
| 79 | [search in rotated sorted array](https://leetcode.com/problems/search-in-rotated-sorted-array/) |  |
| 80 | [Search in rotated sorted array 2](https://leetcode.com/problems/search-in-rotated-sorted-array-ii/) |  |
| 81 | [Allocate books](https://www.interviewbit.com/problems/allocate-books/) |  |
| 82 | [median of two sorted array](https://leetcode.com/problems/median-of-two-sorted-arrays/) |  |
|  |  |  |
|  | **LINKEDLIST** |  |
|  |  |  |
| 83 | [reverse LinkedList](https://leetcode.com/problems/reverse-linked-list/) |  |
| 84 | [Find the middle element](https://www.geeksforgeeks.org/write-a-c-function-to-print-the-middle-of-the-linked-list/) |  |
| 85 | [Floyd cycle](https://www.geeksforgeeks.org/detect-loop-in-a-linked-list/) |  |
| 86 | [Intersection point of 2 linked list](https://www.geeksforgeeks.org/write-a-function-to-get-the-intersection-point-of-two-linked-lists/) |  |
| 87 | [LRU Cache](https://leetcode.com/problems/lru-cache/) |  |
|  |  |  |
|  | **STACKS AND QUEUES** |  |
|  |  |  |
| 88 | [Next Greater Element](https://leetcode.com/problems/next-greater-element-i/) |  |
| 89 | [Largest Rectangular Area Histogram](https://leetcode.com/problems/largest-rectangle-in-histogram/) |  |
| 90 | [maximu size binary matrix containing 1](https://leetcode.com/problems/maximal-rectangle/) |  |
| 91 | [Valid Parentheses](https://leetcode.com/problems/valid-parentheses/) |  |
| 92 | [Min Stack](https://leetcode.com/problems/min-stack/) |  |
| 93 | [K stacks in a single array](https://www.geeksforgeeks.org/efficiently-implement-k-stacks-single-array/) |  |
| 94 | [Infix evaluation](https://leetcode.com/problems/basic-calculator/) |  |

|  |  |  |
| --- | --- | --- |
| 95 | [K reverse in a queue](https://www.geeksforgeeks.org/reversing-first-k-elements-queue/) |  |
| 96 | [K queue](https://www.geeksforgeeks.org/efficiently-implement-k-queues-single-array/) |  |
|  |  |  |
|  | **TREES** |  |
|  |  |  |
| 97 | [Preorder Traversal](https://leetcode.com/problems/binary-tree-preorder-traversal/) |  |
| 98 | [Inorder Traversal](https://leetcode.com/problems/binary-tree-inorder-traversal/) |  |
| 99 | [Postorder Traversal](https://leetcode.com/problems/binary-tree-postorder-traversal/) |  |
| 100 | [right side view](https://leetcode.com/problems/binary-tree-right-side-view/) |  |
| 101 | [Left View](https://practice.geeksforgeeks.org/problems/left-view-of-binary-tree/1) |  |
| 102 | [Top View](https://practice.geeksforgeeks.org/problems/top-view-of-binary-tree/1) |  |
| 103 | [Bottom View](https://practice.geeksforgeeks.org/problems/bottom-view-of-binary-tree/1) |  |
| 104 | [Vertical order](https://leetcode.com/problems/vertical-order-traversal-of-a-binary-tree/) |  |
| 105 | [Diagonal Traversal](https://www.geeksforgeeks.org/diagonal-traversal-of-binary-tree/) |  |
| 106 | [Boundary Traversal](https://leetcode.com/problems/boundary-of-binary-tree/) |  |
| 107 | [Binary Tree Cameras](https://leetcode.com/problems/binary-tree-cameras/) |  |
| 108 | [Max path sum](https://leetcode.com/problems/binary-tree-maximum-path-sum/) |  |
| 109 | [Delete node in bst](https://leetcode.com/problems/delete-node-in-a-bst/) |  |
| 110 | [Construct from inorder and preorder](https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/) |  |
| 111 | [Next right pointer in each node](https://leetcode.com/problems/populating-next-right-pointers-in-each-node/) |  |
| 112 | [Convert a binary tree to circular doubly linked list](https://www.geeksforgeeks.org/convert-a-binary-tree-to-a-circular-doubly-link-list/) |  |
| 113 | [Conversion of sorted DLL to BST](https://www.geeksforgeeks.org/in-place-conversion-of-sorted-dll-to-balanced-bst/) |  |
| 114 | [Lowest common ancestor](https://practice.geeksforgeeks.org/problems/lowest-common-ancestor-in-a-binary-tree/1) |  |
| 115 | [serialize and deserialise](https://leetcode.com/problems/serialize-and-deserialize-binary-tree/) |  |
|  |  |  |
|  | **TRIE** |  |
|  |  |  |
| 117 | [Implement Trie](https://leetcode.com/problems/implement-trie-prefix-tree/) |  |
| 118 | [Max XOR of two numbers in an array](https://leetcode.com/problems/maximum-xor-of-two-numbers-in-an-array/) |  |
| 119 | [Maximum XOR with an element from Array](https://leetcode.com/problems/maximum-xor-with-an-element-from-array/) |  |
|  |  |  |
|  | **DYNAMIC PROGRAMMING** |  |
|  |  |  |
| 120 | [longest increasing subsequence](https://leetcode.com/problems/longest-increasing-subsequence/) |  |
| 121 | [longest increasing subsequence](https://leetcode.com/problems/longest-increasing-subsequence/) |  |
| 122 | [building bridges](https://www.geeksforgeeks.org/dynamic-programming-building-bridges/) |  |
| 123 | [Russian doll envelopes](https://leetcode.com/problems/russian-doll-envelopes/) |  |
| 124 | [Box stacking](https://practice.geeksforgeeks.org/problems/box-stacking/1) |  |
| 125 | [Paint house](https://www.lintcode.com/problem/paint-house/description) |  |
| 126 | [No. of binary string without consecutive 1](https://www.geeksforgeeks.org/count-number-binary-strings-without-consecutive-1s/) |  |
| 127 | [Possible ways to construct the building](https://www.geeksforgeeks.org/count-possible-ways-to-construct-buildings/) |  |
| 128 | [Total no. of bst](https://www.geeksforgeeks.org/total-number-of-possible-binary-search-trees-with-n-keys/) |  |
| 129 | No. of balanced parentheses sequence |  |
| 130 | [Min cost path](https://leetcode.com/problems/minimum-path-sum/) |  |
| 131 | [Cherry pickup](https://leetcode.com/problems/cherry-pickup/) |  |
| 132 | [Cherry pickup 2](https://leetcode.com/problems/cherry-pickup-ii/) |  |
| 133 | [best time to buy and sell stock](https://leetcode.com/problems/best-time-to-buy-and-sell-stock/) |  |
| 134 | [best time to buy and sell 2](https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/) |  |
| 135 | [buy and sell with transaction fee](https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-transaction-fee/) |  |
| 136 | [best time to buy and sell with cool down](https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-cooldown/) |  |
| 137 | [best time to buy and sell 3](https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/) |  |
| 138 | [best time to but and sell 4](https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iv/) |  |
| 139 | [burst balloons](https://leetcode.com/problems/burst-balloons/) |  |
| 140 | [Optimal BST](https://www.geeksforgeeks.org/optimal-binary-search-tree-dp-24/) |  |
| 141 | [Matrix chain multiplication](https://www.geeksforgeeks.org/matrix-chain-multiplication-dp-8/) |  |
| 142 | [Longest common subsequence](https://leetcode.com/problems/longest-common-subsequence/) |  |
| 143 | [Count all pallindromic subsequence](https://www.geeksforgeeks.org/count-palindromic-subsequence-given-string/) |  |
| 144 | [Count distinct pallindromic subsequence](https://leetcode.com/problems/count-different-palindromic-subsequences/) |  |
| 145 | [No. of sequence of type a^i+b^j+c^k](https://www.geeksforgeeks.org/number-subsequences-form-ai-bj-ck/) |  |
| 146 | [2 egg 100 floor](https://www.geeksforgeeks.org/puzzle-set-35-2-eggs-and-100-floors/) |  |
| 146 | [egg drop](https://www.geeksforgeeks.org/egg-dropping-puzzle-dp-11/) |  |
| 148 | [Regular Expression Matching](https://leetcode.com/problems/regular-expression-matching/) |  |
| 149 | [Palindrome partitioning](https://leetcode.com/problems/palindrome-partitioning-ii/) |  |
| 150 | [Frog jump](https://leetcode.com/problems/frog-jump/) |  |
| 151 | [Edit Distance](https://leetcode.com/problems/edit-distance/) |  |
| 152 | [0-1 Knapsack](https://www.geeksforgeeks.org/0-1-knapsack-problem-dp-10/) |  |
| 153 | [unbounded knapsack](https://www.geeksforgeeks.org/unbounded-knapsack-repetition-items-allowed/) |  |

|  |  |  |
| --- | --- | --- |
| 154 | [Fractional knapsack](https://www.geeksforgeeks.org/fractional-knapsack-problem/) |  |
| 155 | [Coin change combination](https://www.pepcoding.com/resources/online-java-foundation/dynamic-programming-and-greedy/coin-change-combination-official/ojquestion) |  |
| 156 | [Coin change permutation](https://www.pepcoding.com/resources/online-java-foundation/dynamic-programming-and-greedy/coin-change-permutations-official/ojquestion) |  |
|  |  |  |
|  | **GRAPHS** |  |
|  |  |  |
| 157 | [Number of Islands](https://leetcode.com/problems/number-of-islands) |  |
| 158 | [Number of Distinct Islands](https://leetcode.com/problems/number-of-distinct-islands) |  |
| 159 | [Rotting Oranges](https://leetcode.com/problems/rotting-oranges) |  |
| 160 | [Bipartite graph](https://leetcode.com/problems/is-graph-bipartite/) |  |
| 161 | [Bus routes](https://leetcode.com/problems/bus-routes/) |  |
| 162 | [Prim's Algo](https://www.spoj.com/problems/MST/) |  |
| 163 | [Dijkstra algo](https://www.geeksforgeeks.org/dijkstras-shortest-path-algorithm-greedy-algo-7/) |  |
| 164 | [swim in rising water](https://leetcode.com/problems/swim-in-rising-water/) |  |
| 165 | [0-1 matrix](https://leetcode.com/problems/01-matrix/) |  |
| 166 | [bellman ford](https://www.geeksforgeeks.org/bellman-ford-algorithm-dp-23/) |  |
| 167 | [Strongly Connected Components (Kosaraju's Algo)](https://practice.geeksforgeeks.org/problems/strongly-connected-components-kosarajus-algo/1) |  |
| 168 | [Mother Vertex](https://practice.geeksforgeeks.org/problems/mother-vertex/1) |  |
| 169 | [Kahn's algo](https://www.geeksforgeeks.org/topological-sorting-indegree-based-solution/) |  |
| 170 | [Alien Dictionary](https://www.geeksforgeeks.org/given-sorted-dictionary-find-precedence-characters/) |  |
| 171 | [Number of Islands II](https://www.lintcode.com/en/old/problem/number-of-islands-ii/) |  |
| 172 | [Regions Cut By Slashes](https://leetcode.com/problems/regions-cut-by-slashes) |  |
| 173 | [Sentence Similarity II](https://medium.com/%40rebeccahezhang/leetcode-737-sentence-similarity-ii-2ca213f10115) |  |
| 174 | [Redundant Connection](https://leetcode.com/problems/redundant-connection) |  |
| 175 | [Redundant connection 2](https://leetcode.com/problems/redundant-connection-ii/) |  |
| 176 | [Articulation point](https://www.geeksforgeeks.org/articulation-points-or-cut-vertices-in-a-graph/) |  |
| 177 | [Min swaps required to sort array](https://www.geeksforgeeks.org/minimum-number-swaps-required-sort-array/) |  |
| 178 | [Sliding Puzzle](https://leetcode.com/problems/sliding-puzzle) |  |
| 179 | [Floyd Warshall](https://practice.geeksforgeeks.org/problems/implementing-floyd-warshall/0) |  |
| 180 | [remove max number of edges to keep graph traversal](https://leetcode.com/problems/remove-max-number-of-edges-to-keep-graph-fully-traversable/) |  |