| Serial | Problem Name | Done (Y/N) | Solution | Comments / Hints for the Problem |
|---|---|---|---|---|
| | **Muhammad Farhan's DSA Sheet** | | | |
| | REMEMBER Nothing worth having comes easy! CONSISTENCY is the Key. Do atleast one question every day | | | |
| | **Math / Array / String** | | | |
| 1 | Add Two Integers - LeetCode | . | | |
| 2 | Concatenation of Array - LeetCode | . | | |
| 3 | Convert the Temperature - LeetCode | . | | |
| 4 | Smallest Even Multiple - LeetCode | . | | |
| 5 | Fizz Buzz - LeetCode | . | | |
| 6 | Ant on the Boundary - LeetCode | . | | |
| 7 | Average Value of Even Numbers That Are Divisible by Three - LeetCode | . | | |
| 8 | Maximum Nesting Depth of the Parentheses - LeetCode | . | Solution | |
| 9 | https://leetcode.com/problems/three-divisors/description | . | | |
| 10 | Number of Common Factors - LeetCode | . | | |
| 11 | s://leetcode.com/problems/find-greatest-common-divisor-of-array/descriptic | . | | Greatest Common Divisor (GCD) is an important mathematical concept |
| 12 | Defanging an IP Address - LeetCode | . | | |
| 13 | Two Sum - LeetCode | . | | |
| 14 | Minimum Number Game - LeetCode | . | Solution | |
| 15 | To Lower Case - LeetCode | . | | Understand ASCII Values |
| 16 | https://leetcode.com/problems/robot-return-to-origin/description/ | . | | |
| 17 | https://leetcode.com/problems/furthest-point-from-origin/ | . | | |
| 18 | Palindrome Number - LeetCode | . | | |
| 19 | Subtract the Product and Sum of Digits of an Integer - LeetCode | . | | |
| 20 | Difference Between Element Sum and Digit Sum of an Array - LeetCode | . | | |
| 21 | Count Integers With Even Digit Sum - LeetCode | . | | |
| 22 | https://leetcode.com/problems/harshad-number/description/ | . | | |
| 23 | https://leetcode.com/problems/perfect-number/description/ | . | | |
| 24 | https://leetcode.com/problems/valid-perfect-square/description/ | . | | |
| 25 | https://leetcode.com/problems/truncate-sentence/description/ | . | | |
| 26 | https://leetcode.com/problems/reverse-words-in-a-string-iii/description/ | . | | |
| 27 | Buy Two Chocolates - LeetCode | . | | Array, Sorting |
| 28 | Divisible and Non-divisible Sums Difference - LeetCode | . | | |
| 29 | https://leetcode.com/problems/detect-capital/description/ | . | | |
| 30 | ://leetcode.com/problems/check-if-two-string-arrays-are-equivalent/descript | . | | |
| 31 | https://leetcode.com/problems/shuffle-string/description/ | . | | |
| 32 | Keep Multiplying Found Values by Two - LeetCode | . | | |
| 33 | //leetcode.com/problems/count-negative-numbers-in-a-sorted-matrix/descrip | . | | |
| 34 | Maximum Area of Longest Diagonal Rectangle - LeetCode | . | | |
| 35 | https://leetcode.com/problems/number-of-1-bits/description/ | . | | |
| 36 | https://leetcode.com/problems/fibonacci-number/ | . | | Fibonacci is a very important concept. Understand it thoroughly |
| 37 | https://leetcode.com/problems/climbing-stairs/description/ | . | | |
| 38 | Binary Search - LeetCode | . | | Binary Search |
| 39 | Search Insert Position - LeetCode | . | | Binary Search |
| 40 | Goal Parser Interpretation - LeetCode | . | | |
| 41 | Find the Maximum Achievable Number - LeetCode | . | | |
| 42 | Missing Number - LeetCode | . | | |
| 43 | Alternating Digit Sum - LeetCode | . | | |
| 44 | https://leetcode.com/problems/count-items-matching-a-rule/description/ | . | | |
| 45 | https://leetcode.com/problems/maximum-average-subarray-i/description/ | . | | Learn Sliding Windows Technique First |
| 46 | https://leetcode.com/problems/capitalize-the-title/description/ | . | | |
| 47 | etcode.com/problems/convert-integer-to-the-sum-of-two-no-zero-integers/de | . | | |
| 48 | s://leetcode.com/problems/find-first-palindromic-string-in-the-array/descripti | . | | |
| 49 | Maximum Number of Words Found in Sentences - LeetCode | . | | |
| 50 | Plus One - LeetCode | . | | |
| 51 | 191. Number of 1 Bits | . | | |
| 52 | Maximum Odd Binary Number - LeetCode | . | | |
| 53 | Find the Distance Value Between Two Arrays - LeetCode | . | | |
| 54 | https://leetcode.com/problems/sum-of-values-at-indices-with-k-set-bits/ | . | | Learn Binary Number System |
| 55 | Count of Matches in Tournament - LeetCode | . | | |
| 56 | Find N Unique Integers Sum up to Zero - LeetCode | . | | |
| 57 | Single Number - LeetCode | . | | |
| 58 | https://leetcode.com/problems/left-and-right-sum-differences/description/ | . | | |
| 59 | https://leetcode.com/problems/decompress-run-length-encoded-list/description/ | . | | |
| 60 | Contains Duplicate - LeetCode | . | | Use sorting |
| 61 | Minimum Common Value - LeetCode | . | | Two Pointers |
| 62 | Final Value of Variable After Performing Operations - LeetCode | . | | |
| 63 | ://leetcode.com/problems/check-if-a-string-is-an-acronym-of-words/descript | . | | |
| 64 | Find the Difference - LeetCode | . | | |
| 65 | ttps://leetcode.com/problems/find-missing-and-repeated-values/description/ | . | String | |
| 66 | Check If Two String Arrays are Equivalent - LeetCode | . | | |
| 67 | https://leetcode.com/problems/squares-of-a-sorted-array/description/ | . | | Learn Sliding WIndow Approach |
| 68 | etcode.com/problems/maximum-length-substring-with-two-occurrences/desc | . | | |
| 69 | leetcode.com/problems/find-resultant-array-after-removing-anagrams/descr | . | | Medium - Easy |
| 70 | https://leetcode.com/problems/find-all-duplicates-in-array/description/ | . | | Medium - Easy |
| 71 | Partitioning Into Minimum Number Of Deci-Binary Numbers - LeetCode | . | | String Medium Problem (But easy - look at hints) |
| | Congratulations! 71 Questions, Now you need to understand hash map / set. It's fun to solve with it ! | | | |
| | **Hash Map** | | | |
| 72 | Two Sum - LeetCode | . | | Instead two loops, solve with one loop using hash map / set |
| 73 | Majority Element - LeetCode | . | | |
| 74 | Contains Duplicate - LeetCode | . | | Already done with sorting, now do with hashmap (Less time complexity) |
| 75 | ://leetcode.com/problems/most-frequent-number-following-key-in-an-array/descript | . | | |
| 76 | https://leetcode.com/problems/n-repeated-element-in-size-2n-array/description/ | . | | |
| 77 | Maximum Number of Pairs in Array - LeetCode | . | | |
| 78 | https://leetcode.com/problems/valid-anagram/description/ | . | | |
| 79 | https://leetcode.com/problems/find-the-difference-of-two-arrays/description/ | . | | |
| 80 | https://leetcode.com/problems/first-unique-character-in-a-string/description/ | . | | |
| 81 | https://leetcode.com/problems/first-letter-to-appear-twice/description/ | . | | |
| 82 | Check if the Sentence Is Pangram - LeetCode | . | | |
| 83 | Jewels and Stones - LeetCode | . | | |
| 84 | Largest Positive Integer That Exists With Its Negative - LeetCode | . | | |
| 85 | Minimum Common Value - LeetCode | . | | |
| 86 | https://leetcode.com/problems/find-missing-and-repeated-values/description/ | . | | |
| 87 | Number of Good Pairs - LeetCode | . | | |
| 88 | Distribute Candies - LeetCode | . | | |
| 89 | Count Elements With Maximum Frequency - LeetCode | . | | |
| 90 | Remove Duplicates from Sorted Array - LeetCode | . | | |

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|---|---|---|---|---|---|---|
| 91 | Move Zeroes - LeetCode | . | | | | |
| 92 | Duplicate Zeros - LeetCode | . | | | | |
| 93 | Intersection of Two Arrays - LeetCode | . | | | | |
| 94 | Intersection of Two Arrays II - LeetCode | . | | | | |
| 95 | Find Smallest Letter Greater Than Target - LeetCode | . | | | | |
| 96 | es://leetcode.com/problems/find-resultant-array-after-removing-anagrams/descriptic | . | | | | |
| 97 | Set Mismatch - LeetCode | . | | | | |
| 98 | Maximum Product of Three Numbers - LeetCode | . | | | | |
| 99 | Third Maximum Number - LeetCode | . | | | | |
| 100 | https://leetcode.com/problems/most-frequent-even-element/description/ | . | | | | |
| 101 | https://leetcode.com/problems/contains-duplicate-ii/description/ | . | | | | |
| 102 | https://leetcode.com/problems/number-of-arithmetic-triplets/description/ | . | | | | |
| 103 | ://leetcode.com/problems/maximum-length-substring-with-two-occurrences/descript | . | | | | |
| 104 | https://leetcode.com/problems/find-all-duplicates-in-an-array/description/ | . | | Medium - Easy | | |
| 105 | etcode.com/problems/minimum-number-of-steps-to-make-two-strings-anagram/des | . | | Medium | | |
| 106 | etcode.com/problems/minimum-number-of-steps-to-make-two-strings-anagram-ii/de | . | | Medium | | |
| 107 | https://leetcode.com/problems/determine-if-two-strings-are-close/description/ | . | | Medium | | |
| 108 | https://leetcode.com/problems/insert-delete-getrandom-o1/description/ | . | | Medium | | |
| 109 | https://leetcode.com/problems/group-anagrams/description/ | . | | Medium | | |
| 110 | | . | | | | |
| 111 | Permutation in String - LeetCode | . | | Medium | Sliding Window | |
| 112 | Find All Anagrams in a String - LeetCode | . | | Medium | Sliding Window | |
| | | . | | | | |

Congratulations! It's time to learn advanced concepts and start doing medium level questions
Remember Quality over quantity.
Learn Linkedlists, Trees, DFS, BFS, Dynamic Programming and do Easy then Medium questions from these concepts

| | | | | | | |
|---|---|---|---|---|---|---|
| | **TREE** | | | | | |
| | Preorder Traversal | . | | | | |
| | Inorder Traversal | . | | | | |
| | Postorder Traversal | . | | | | |

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|---|---|---|---|---|
| https://leetcode.com/problems/replace-employee-id-with-the-unique-identifier/description/ | | SQL JOIN | | |

Study Plans - Questions Selected by Leetcode to itself to improve on the topic.
These two are highly recommended

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|---|---|---|---|---|
| https://leetcode.com/studyplan/top-sql-50/ | | | | |

| Sl. No | Question link | | | | |
|--------|---------------|---|---|---|---|
| | **Warm-Ups** | Read This | | | |
| 1 | Convert the Temperature | https://www.rareskills.io/post/best-50-leetcode-questions-to-start | | | |
| 2 | Add Two Integers | | | | |
| 3 | Smallest Even Multiple | | | | |
| 4 | Final Value of Variable after Performing Operations | | | | |
| 5 | Count of Matches in Tournament | | | | |
| 6 | Number of Common Factors | | | | |
| 7 | XOR Operation in an Array | | | | |
| | **Array** | | | | |
| 8 | Fizz Buzz | | | | |
| 9 | Check if Array is Sorted and Rotated | | | | |
| 10 | Check if a Word Occurs as a Prefix of Any Word in a Sentence | | | | |
| 11 | Subtract the Product and Sum of Digits of an Integer | | | | |
| 12 | Find First Palindromic String in the Array | | | | |
| 13 | Running Sum of 1D Array | | | | |
| 14 | Merge Two Sorted Lists | | | | |
| 15 | Find Greatest Common Divisor of Array | | | | |
| 16 | Maximum Number of Words Found in Sentences | | | | |
| 17 | Final Value of Variable after Performing Operations | | | | |
| 18 | Shuffle the Array | | | | |
| 19 | Shuffle String | | | | |
| 20 | Cells in a Range on an Excel Sheet | | | | |
| 21 | Minimum Sum of Four Digit Number after Splitting Digits | | | | |
| 22 | Decompress Run-Length Encoded List | | | | |
| | **String** | | | | |
| 23 | Length of Last Word | | | | |
| 24 | To Lower Case | | | | |
| 25 | To Upper Case (Opposite) | | | | |
| 26 | Reverse String (Without two-pointers) | | | | |
| 27 | Valid Palindrome | | | | |
| 28 | Count Vowel Substrings of a String | | | | |
| 29 | Repeated Substring Pattern | | | | |
| 30 | Defanging an IP Address | | | | |
| 31 | Determine Color of a Chessboard Square | | | | |
| 32 | Add Digits | | | | |
| 33 | Jewels and Stones | | | | |
| 34 | Roman to Integer | | | | |
| | **2D Array** | | | | |
| 35 | Richest Customer Wealth | | | | |
| 36 | Flipping an Image | | | | |
| 37 | Lucky Numbers in a Matrix | | | | |
| 38 | Shift 2D Grid | | | | |
| 39 | Available Captures for Rook | | | | |
| | **Hash Table** | | | | |
| 40 | Jewels and Stones | | | | |
| 41 | Decode the Message | | | | |
| 42 | Unique Morse Code Words | | | | |
| 43 | Check if the Sentence is Pangram | | | | |
| 44 | First Letter to Appear Twice | | | | |
| 45 | Sum of Unique Elements | | | | |
| 46 | Merge Similar Items | | | | |

| 47 | Divide Array into Equal Pairs | | | | |
|----|-------------------------------|---|---|---|---|
| 48 | Destination City | | | | |
| 49 | Number of Good Pairs | | | | |

| URL | | | |
|---|---|---|---|
| https://leetcode.com/problems/split-a-string-in-balanced-strings/description/ | | | |
| https://leetcode.com/problems/cells-in-a-range-on-an-excel-sheet/description/ | | | |
| https://leetcode.com/problems/number-of-steps-to-reduce-a-number-to-zero/description/ | | | |
| https://leetcode.com/problems/decode-the-message/description/ | | | |
| https://leetcode.com/problems/sorting-the-sentence/description/ | | | |
| https://leetcode.com/problems/remove-one-element-to-make-the-array-strictly-increasing/description/ | | | |
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| https://leetcode.com/problems/reverse-only-letters/description/ | | | |
| https://leetcode.com/problems/greatest-common-divisor-of-strings/description/ | | | |
| https://leetcode.com/problems/check-if-the-number-is-fascinating/description/ | | | |
| https://leetcode.com/problems/remove-trailing-zeros-from-a-string/description/ | | | |
| https://leetcode.com/problems/next-greater-element-i/description/ | | | |
| https://leetcode.com/problems/count-elements-with-maximum-frequency/description/ | | | |
| https://leetcode.com/problems/split-strings-by-separator/description/ | | | |
| https://leetcode.com/problems/capitalize-the-title/description/ | | | |
| https://leetcode.com/problems/detect-capital/description/ | | | |
| https://leetcode.com/problems/longest-common-subsequence/description/?envType=daily-question&envId=2024-01-25 | | Medium | |
| https://leetcode.com/problems/design-an-ordered-stream/description/ | | | |
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| https://leetcode.com/problems/longest-common-prefix/description/ | trie | | |
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| https://leetcode.com/problems/roman-to-integer/description | | | |
| https://leetcode.com/problems/integer-to-roman/description/ | Medium | | |
| https://leetcode.com/problems/pascals-triangle/description/ | | | |
| https://leetcode.com/problems/pascals-triangle-ii/description/ | | | |
| https://leetcode.com/problems/merge-similar-items/description/ | | | |
| https://leetcode.com/problems/merge-two-2d-arrays-by-summing-values/description/ | | | |
| https://leetcode.com/problems/check-if-numbers-are-ascending-in-a-sentence/ | | | |
| https://leetcode.com/problems/minimum-right-shifts-to-sort-the-array/description/ | | | |
| https://leetcode.com/problems/check-if-array-is-sorted-and-rotated/description/ | | | |
| | | | |
| https://leetcode.com/problems/kth-largest-element-in-an-array/description/ | Med | | |

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| **Linear & Binary Search** |
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| **Linked List** |
| [Convert Binary Number in a Linked List to Integer - LeetCode](#) |
| [Reverse Linked List - LeetCode](#) |
| [Middle of the Linked List - LeetCode](#) |
| [Palindrome Linked List - LeetCode](#) |
| [Linked List Cycle](#) |
| [Intersection of Two Linked Lists - LeetCode](#) |
| [Insert Greatest Common Divisors in Linked List - LeetCode](#) |
| [Delete the Middle Node of a Linked List - LeetCode](#) |
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| **Recursion** |

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| https://leetcode.com/problems/design-hashset/description/ |
| https://leetcode.com/problems/design-hashmap/description/ |
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| **Trie** |
| https://leetcode.com/problems/longest-common-prefix/description/ |
| https://leetcode.com/problems/implement-trie-prefix-tree/description/ |
| https://leetcode.com/problems/search-suggestions-system/description/ |

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| Tree | |
| | |
| [Add One Row to Tree - LeetCode](#) | Medm |

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| Linkedin | https://www.linkedin.com/in/muhammadfarhankt/ |
| Github | https://github.com/muhammadfarhankt/ |
| Leetcode | https://leetcode.com/muhammadfarhankt/ |