

# TOPIC 1: Arrays & Strings Pattern Pack

## Warm-up (mostly Easy)

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|---|-------------|
| 1. [1] Two Sum                              | <i>Easy</i> |
| 2. [26] Remove Duplicates from Sorted Array | <i>Easy</i> |
| 3. [27] Remove Element                      | <i>Easy</i> |
| 4. [88] Merge Sorted Array                  | <i>Easy</i> |
| 5. [121] Best Time to Buy and Sell Stock    | <i>Easy</i> |
| 6. [125] Valid Palindrome                   | <i>Easy</i> |
| 7. [167] Two Sum II - Input Array Is Sorted | <i>Easy</i> |
| 8. [169] Majority Element                   | <i>Easy</i> |
| 9. [242] Valid Anagram                      | <i>Easy</i> |
| 10. [268] Missing Number                    | <i>Easy</i> |
| 11. [283] Move Zeroes                       | <i>Easy</i> |
| 12. [303] Range Sum Query - Immutable       | <i>Easy</i> |
| 13. [349] Intersection of Two Arrays        | <i>Easy</i> |
| 14. [350] Intersection of Two Arrays II     | <i>Easy</i> |
| 15. [724] Find Pivot Index                  | <i>Easy</i> |

## Two Pointers & In-place Array/String

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|--|---------------|
| 1. [11] Container With Most Water              | <i>Medium</i> |
| 2. [15] 3Sum                                   | <i>Medium</i> |
| 3. [16] 3Sum Closest                           | <i>Medium</i> |
| 4. [18] 4Sum                                   | <i>Medium</i> |
| 5. [31] Next Permutation                       | <i>Medium</i> |
| 6. [75] Sort Colors                            | <i>Medium</i> |
| 7. [80] Remove Duplicates from Sorted Array II | <i>Medium</i> |
| 8. [151] Reverse Words in a String             | <i>Medium</i> |
| 9. [165] Compare Version Numbers               | <i>Medium</i> |
| 10. [189] Rotate Array                         | <i>Medium</i> |
| 11. [287] Find the Duplicate Number            | <i>Medium</i> |
| 12. [345] Reverse Vowels of a String           | <i>Easy</i>   |
| 13. [392] Is Subsequence                       | <i>Easy</i>   |

14. [443] String Compression	Medium
15. [524] Longest Word in Dictionary through Deleting	Medium
16. [532] K-diff Pairs in an Array	Medium
17. [541] Reverse String II	Easy
18. [557] Reverse Words in a String III	Easy
19. [581] Shortest Unsorted Continuous Subarray	Medium
20. [611] Valid Triangle Number	Medium
21. [633] Sum of Square Numbers	Medium
22. [658] Find K Closest Elements	Medium
23. [680] Valid Palindrome II	Easy
24. [809] Expressive Words	Medium
25. [844] Backspace String Compare	Easy
26. [870] Advantage Shuffle	Medium
27. [881] Boats to Save People	Medium
28. [905] Sort Array By Parity	Easy
29. [917] Reverse Only Letters	Easy
30. [948] Bag of Tokens	Medium
31. [977] Squares of a Sorted Array	Easy
32. [986] Interval List Intersections	Medium
33. [989] Add to Array-Form of Integer	Easy
34. [1007] Minimum Domino Rotations For Equal Row	Medium
35. [1498] Number of Subsequences That Satisfy the Given Sum Condition	Medium
36. [1574] Shortest Subarray to be Removed to Make Array Sorted	Medium
37. [1679] Max Number of K-Sum Pairs	Medium
38. [1750] Minimum Length of String After Deleting Similar Ends	Medium
39. [2091] Removing Minimum and Maximum From Array	Medium
40. [2410] Maximum Matching of Players With Trainers	Medium

## Sliding Window

1. [3] Longest Substring Without Repeating Characters
2. [187] Repeated DNA Sequences
3. [209] Minimum Size Subarray Sum
4. [219] Contains Duplicate II

5. [424] Longest Repeating Character Replacement	Medium
6. [438] Find All Anagrams in a String	Medium
7. [567] Permutation in String	Medium
8. [643] Maximum Average Subarray I	Easy
9. [674] Longest Continuous Increasing Subsequence	Easy
10. [713] Subarray Product Less Than K	Medium
11. [795] Number of Subarrays with Bounded Maximum	Medium
12. [904] Fruit Into Baskets	Medium
13. [978] Longest Turbulent Subarray	Medium
14. [1004] Max Consecutive Ones III	Medium
15. [1040] Moving Stones Until Consecutive II	Medium
16. [1052] Grumpy Bookstore Owner	Medium
17. [1151] Minimum Swaps to Group All 1's Together	Medium
18. [1156] Swap For Longest Repeated Character Substring	Medium
19. [1208] Get Equal Substrings Within Budget	Medium
20. [1234] Replace the Substring for Balanced String	Medium
21. [1297] Maximum Number of Occurrences of a Substring	Medium
22. [1343] Number of Sub-arrays of Size K and Average $\geq$ Threshold	Medium
23. [1358] Number of Substrings Containing All Three Characters	Medium
24. [1423] Maximum Points You Can Obtain from Cards	Medium
25. [1438] Longest Continuous Subarray With Absolute Diff Less Than or Equal to Limit	Medium
26. [1456] Maximum Number of Vowels in a Substring of Given Length	Medium
27. [1493] Longest Subarray of 1's After Deleting One Element	Medium
28. [1567] Maximum Length of Subarray With Positive Product	Medium
29. [1604] Alert Using Same Key-Card Three or More Times in a One Hour Period	Medium
30. [1658] Minimum Operations to Reduce X to Zero	Medium
31. [1695] Maximum Erasure Value	Medium
32. [1838] Frequency of the Most Frequent Element	Medium
33. [1869] Longer Contiguous Segments of Ones than Zeros	Easy
34. [1876] Substrings of Size Three with Distinct Characters	Easy
35. [1888] Minimum Number of Flips to Make the Binary String Alternating	Medium
36. [1984] Minimum Difference Between Highest and Lowest of K Scores	Easy
37. [2024] Maximize the Confusion of an Exam	Medium

38. [2090] K Radius Subarray Averages	<i>Medium</i>
39. [2134] Minimum Swaps to Group All 1's Together II	<i>Medium</i>
40. [2302] Count Subarrays With Score Less Than K	<i>Medium</i>
41. [2401] Longest Nice Subarray	<i>Medium</i>
42. [2461] Maximum Sum of Distinct Subarrays With Length K	<i>Medium</i>
43. [2516] Take K of Each Character From Left and Right	<i>Medium</i>
44. [2958] Length of Longest Subarray With at Most K Frequency	<i>Medium</i>
45. [2962] Count Subarrays Where Max Element Appears at Least K Times	<i>Medium</i>

## Prefix Sums, Difference Arrays & Prefix XOR

1. [53] Maximum Subarray	<i>Easy</i>
2. [152] Maximum Product Subarray	<i>Medium</i>
3. [238] Product of Array Except Self	<i>Medium</i>
4. [304] Range Sum Query 2D - Immutable	<i>Medium</i>
5. [413] Arithmetic Slices	<i>Medium</i>
6. [523] Continuous Subarray Sum	<i>Medium</i>
7. [525] Contiguous Array	<i>Medium</i>
8. [560] Subarray Sum Equals K	<i>Medium</i>
9. [918] Maximum Sum Circular Subarray	<i>Medium</i>
10. [930] Binary Subarrays With Sum	<i>Medium</i>
11. [974] Subarray Sums Divisible by K	<i>Medium</i>
12. [1014] Best Sightseeing Pair	<i>Medium</i>
13. [1031] Maximum Sum of Two Non-Overlapping Subarrays	<i>Medium</i>
14. [1071] Greatest Common Divisor of Strings	<i>Easy</i>
15. [1094] Car Pooling	<i>Medium</i>
16. [1109] Corporate Flight Bookings	<i>Medium</i>
17. [1124] Longest Well-Performing Interval	<i>Medium</i>
18. [1131] Maximum of Absolute Value Expression	<i>Medium</i>
19. [1177] Can Make Palindrome from Substring	<i>Medium</i>
20. [1310] XOR Queries of a Subarray	<i>Medium</i>
21. [1314] Matrix Block Sum	<i>Medium</i>
22. [1352] Product of the Last K Numbers	<i>Medium</i>
23. [1371] Find the Longest Substring Containing Vowels in Even Counts	<i>Medium</i>

24. [1422] Maximum Score After Splitting a String	<i>Easy</i>
25. [1442] Count Triplets That Can Form Two Arrays of Equal XOR	<i>Medium</i>
26. [1477] Find Two Non-overlapping Sub-arrays Each With Target Sum	<i>Medium</i>
27. [1508] Range Sum of Sorted Subarray Sums	<i>Medium</i>
28. [1524] Number of Sub-arrays With Odd Sum	<i>Medium</i>
29. [1525] Number of Good Ways to Split a String	<i>Medium</i>
30. [1573] Number of Ways to Split a String	<i>Medium</i>
31. [1588] Sum of All Odd Length Subarrays	<i>Easy</i>
32. [1590] Make Sum Divisible by P	<i>Medium</i>
33. [1664] Ways to Make a Fair Array	<i>Medium</i>
34. [1732] Find the Highest Altitude	<i>Easy</i>
35. [1854] Maximum Population Year	<i>Easy</i>
36. [1894] Find the Student that Will Replace the Chalk	<i>Medium</i>
37. [1991] Find the Middle Index in Array	<i>Easy</i>
38. [2017] Grid Game	<i>Medium</i>
39. [2055] Plates Between Candles	<i>Medium</i>
40. [2155] All Divisions With the Highest Score of a Binary Array	<i>Medium</i>
41. [2270] Number of Ways to Split Array	<i>Medium</i>
42. [2381] Shifting Letters II	<i>Medium</i>
43. [2433] Find The Original Array of Prefix Xor	<i>Medium</i>
44. [2575] Find the Divisibility Array of a String	<i>Medium</i>
45. [2587] Rearrange Array to Maximize Prefix Score	<i>Medium</i>

## Counting, Hashing, Sorting & One-pass Scans

1. [36] Valid Sudoku	<i>Medium</i>
2. [49] Group Anagrams	<i>Medium</i>
3. [54] Spiral Matrix	<i>Medium</i>
4. [59] Spiral Matrix II	<i>Medium</i>
5. [73] Set Matrix Zeroes	<i>Medium</i>
6. [128] Longest Consecutive Sequence	<i>Medium</i>
7. [134] Gas Station	<i>Medium</i>
8. [229] Majority Element II	<i>Medium</i>
9. [274] H-Index	<i>Medium</i>

10. [347] Top K Frequent Elements	Medium
11. [380] Insert Delete GetRandom O(1)	Medium
12. [394] Decode String	Medium
13. [451] Sort Characters By Frequency	Medium
14. [454] 4Sum II	Medium
15. [462] Minimum Moves to Equal Array Elements II	Medium
16. [498] Diagonal Traverse	Medium
17. [503] Next Greater Element II	Medium
18. [539] Minimum Time Difference	Medium
19. [540] Single Element in a Sorted Array	Medium
20. [621] Task Scheduler	Medium
21. [659] Split Array into Consecutive Subsequences	Medium
22. [665] Non-decreasing Array	Medium
23. [670] Maximum Swap	Medium
24. [692] Top K Frequent Words	Medium
25. [739] Daily Temperatures	Medium
26. [763] Partition Labels	Medium
27. [767] Reorganize String	Medium
28. [769] Max Chunks To Make Sorted	Medium
29. [781] Rabbits in Forest	Medium
30. [791] Custom Sort String	Medium
31. [792] Number of Matching Subsequences	Medium
32. [825] Friends Of Appropriate Ages	Medium
33. [846] Hand of Straights	Medium
34. [849] Maximize Distance to Closest Person	Medium
35. [912] Sort an Array	Medium
36. [915] Partition Array into Disjoint Intervals	Medium
37. [923] 3Sum With Multiplicity	Medium
38. [1010] Pairs of Songs With Total Durations Divisible by 60	Medium
39. [1338] Reduce Array Size to The Half	Medium
40. [1347] Minimum Number of Steps to Make Two Strings Anagram	Medium
41. [1400] Construct K Palindrome Strings	Medium
42. [1497] Check If Array Pairs Are Divisible by k	Medium

43. [1509] Minimum Difference Between Largest and Smallest Value in Three Moves	<i>Medium</i>
44. [1513] Number of Substrings With Only 1s	<i>Medium</i>
45. [1541] Minimum Insertions to Balance a Parentheses String	<i>Medium</i>
46. [1630] Arithmetic Subarrays	<i>Medium</i>
47. [1657] Determine if Two Strings Are Close	<i>Medium</i>
48. [1743] Restore the Array From Adjacent Pairs	<i>Medium</i>
49. [1775] Equal Sum Arrays With Minimum Number of Operations	<i>Medium</i>
50. [1807] Evaluate the Bracket Pairs of a String	<i>Medium</i>
51. [1813] Sentence Similarity III	<i>Medium</i>
52. [1910] Remove All Occurrences of a Substring	<i>Medium</i>
53. [1930] Unique Length-3 Palindromic Subsequences	<i>Medium</i>
54. [1963] Minimum Number of Swaps to Make the String Balanced	<i>Medium</i>
55. [2007] Find Original Array From Doubled Array	<i>Medium</i>