***Week – 2 (05.04.2021 – 13.04.2021)***

***Topics Completed:***

1. Array:

* Sorting
* Two Pointer
* Indexing
* Sliding window
* Using Hashing and map
* Permutation

1. String:

* Reverse
* Non – Repeating/Repeating char
* atoi() Function
* Lexicographical order and Ranking
* Permutation
* Sorting
* Two Pointer
* Indexing
* Sliding window
* Naive Algorithm for Pattern Searching
* KMP Algorithm for Pattern Searching

***Solved Problems based on Weekly Task:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Sort Array By Parity II | 922 | Leetcode |
| 2. | Intersection of Two Arrays | 349 | Leetcode - PDF |
| 3. | Intersection of Two Arrays II | 350 | Leetcode - PDF |
| 4. | Relative Sort Array | 1122 | Leetcode |
| 5. | Maximum Product of Two Elements in an Array | 1464 | Leetcode -PDF |
| 6. | Two Sum II - Input array is sorted | 167 | Leetcode |
| 7. | Find the Duplicate Number | 287 | Leetcode - PDF |
| 8. | Count Odd Numbers in an Interval Range | 1523 | Leetcode |
| 9. | Three Consecutive Odd | 1550 | Leetcode - PDF |
| 10. | Find Numbers with Even Number of Digits | 1295 | Leetcode - PDF |
| 11. | Rotate Array | 189 | Leetcode - PDF |
| 12. | Transpose Matrix | 867 | Leetcode - PDF |
| 13. | Shuffle the Array | 1470 | Leetcode - PDF |
| 14. | Valid Anagram | 242 | Leetcode - PDF |
| 15. | Trapping Rain Water | 42 | Leetcode - PDF |
| 16. | Remove All Adjacent Duplicates In String | 1047 | Leetcode - PDF |
| 17. | Permutations | 46 | Leetcode - PDF |
| 18. | Permutations II | 47 | Leetcode - PDF |
| 19. | Global and Local Inversions | 775 | Leetcode - PDF |
| 20. | Pascal's Triangle | 118 | Leetcode - PDF |
| 21. | Pascal's Triangle II | 119 | Leetcode - PDF |
| 22. | Set Matrix Zeroes | 73 | Leetcode - PDF |
| 23. | Diagonal Traverse II | 1424 | Leetcode - PDF |
| 24. | Sum of All Odd Length Subarrays | 1588 | Leetcode |
| 25. | Rotate Image | 48 | Leetcode - PDF |
| 26. | Diagonal Traverse | 498 | Leetcode - PDF |
| 27. | Unique Number of Occurrences | 1207 | Leetcode - PDF |
| 28. | Move Zeroes | 238 | Leetcode - PDF |
| 29. | Max Consecutive Ones | 485 | Leetcode - PDF |
| 30. | Find All Duplicates in an Array | 442 | Leetcode - PDF |
| 31. | Reshape the Matrix | 566 | Leetcode |
| 32. | Strings | - | Hacker Rank |
| 33. | Simple Array Sum | - | Hacker Rank |
| 34. | Compare the Triplets | - | Hacker Rank |
| 35. | A Very Big Sum | - | Hacker Rank |
| 36. | Spiral Matrix | 54 | Leetcode - PDF |
| 37. | Maximum Subarray | 53 | Leetcode - PDF |
| 38. | Find Pivot Index | 724 | Leetcode |
| 39. | Lexicographical Numbers | 386 | Leetcode |
| 40. | Reverse Words in a String | 151 | Leetcode |
| 41. | Find All Numbers Disappeared in an Array | 448 | Leetcode |
| 42. | Longest Consecutive Sequence | 128 | Leetcode |

***15 Solved Random Problems:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Find Smallest Letter Greater Than Target | 744 | Leetcode |
| 2. | N-Repeated Element in Size 2N Array | 961 | Leetcode |
| 3. | Majority Element | 169 | Leetcode |
| 4. | Remove Duplicates from Sorted Array II | 80 | Leetcode |
| 5. | Factorial Trailing Zeroes | 172 | Leetcode |
| 6. | Add Digits | 258 | Leetcode |
| 7. | Check If Two String Arrays are Equivalent | 1662 | Leetcode |
| 8. | Find Peak Element | 162 | Leetcode |
| 9. | Third Maximum Number | 414 | Leetcode |
| 10 | Valid Palindrome | 125 | Leetcode |
| 11. | Maximum Product Subarray | 152 | Leetcode |
| 12. | Ugly Number | 263 | Leetcode |
| 13. | Arranging Coins | 441 | Leetcode |
| 14. | Excel Sheet Column Title | 168 | Leetcode |
| 15. | Self Dividing Numbers | 728 | Leetcode |

***Problems Not Solve in First Try:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Relative Sort Array | 1122 | Leetcode |
| 2. | N-Repeated Element in Size 2N Array | 961 | Leetcode |
| 3. | Remove Duplicates from Sorted Array II | 80 | Leetcode |
| 4. | Factorial Trailing Zeroes | 172 | Leetcode |
| 5. | Valid Palindrome | 125 | Leetcode |
| 6. | Maximum Product Subarray | 152 | Leetcode |
| 7. | Transpose Matrix | 867 | Leetcode |
| 8. | Trapping Rain Water | 42 | Leetcode - PDF |
| 9. | Remove All Adjacent Duplicates In String | 1047 | Leetcode - PDF |
| 10. | Permutations | 46 | Leetcode - PDF |
| 11. | Pascal's Triangle | 118 | Leetcode - PDF |
| 12. | Diagonal Traverse II | 1424 | Leetcode - PDF |
| 13. | Unique Number of Occurrences | 1207 | Leetcode - PDF |
| 14. | Spiral Matrix | 54 | Leetcode - PDF |
| 15. | Maximum Subarray | 53 | Leetcode - PDF |
| 16. | Find Pivot Index | 724 | Leetcode |
| 17. | Find All Numbers Disappeared in an Array | 448 | Leetcode |
| 18. | Longest Consecutive Sequence | 128 | Leetcode |