***Week – 7 (******31.05.2021 – 05.06.2021)***

***Topics Completed:***

1. Recursion and Back Tracking
2. Trees

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

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Add Two Numbers | 2 | Leetcode |
| 2. | K-th Symbol in Grammar | 779 | Leetcode |
| 3. | N-th Tribonacci Number | 1137 | Leetcode |
| 4. | Check if Number is a Sum of Powers of Three | 1780 | Leetcode |
| 5. | Sum of Digits in Base K | 1837 | Leetcode |
| 6. |  |  |  |

***15 Solved Random Problems:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Maximum Gap | 164 | Leetcode |
| 2. | Top K Frequent Elements | 347 | Leetcode |
| 3. | Sort Characters By Frequency | 451 | Leetcode |
| 4. | Sort Array by Increasing Frequency | 1636 | Leetcode |
| 5. | Top K Frequent Words | 692 | Leetcode |
| 6. | K-th Smallest Prime Fraction | 786 | Leetcode |
| 7. | Wiggle Sort II | 324 | Leetcode |
| 8. | Filter Restaurants by Vegan-Friendly, Price and Distance | 1333 | Leetcode |
| 9. | Rank Teams by Votes | 1366 | Leetcode |
| 10. | Merge Intervals | 56 | Leetcode |
| 11. | Insert Interval | 57 | Leetcode |
| 12. | Teemo Attacking | 495 | Leetcode |
| 13. | Super Pow | 372 | Leetcode |
| 14. | Minimum Moves to Equal Array Elements II | 462 | Leetcode |
| 15. | Prime Palindrome | 866 | Leetcode |

***Problems in PDF:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Binary Tree Inorder Traversal | 94 | Leetcode |
| 2. | Maximum Depth of Binary Tree | 104 | Leetcode |
| 3. | Binary Tree Preorder Traversal | 144 | Leetcode |
| 4. | Binary Tree Postorder Traversal | 145 | Leetcode |
| 5. | Diameter of Binary Tree | 543 | Leetcode |
| 6. | Same Tree | 100 | Leetcode |
| 7. | Binary Tree Level Order Traversal | 102 | Leetcode |
| 8. | Binary Tree Level Order Traversal II | 107 | Leetcode |
| 9. | Kth Smallest Element in a BST | 230 | Leetcode |
| 10. | Lowest Common Ancestor of a Binary Search Tree | 235 | Leetcode |
| 11. | Sorted Array To Balanced BST |  | InterviewBit |
| 12. | Merge Two Binary Trees | 617 | Leetcode |
| 13. | Binary Tree Zigzag Level Order Traversal | 103 | Leetcode |
| 14. | Flatten Binary Tree to Linked List | 114 | Leetcode |
| 15. | Construct Binary Tree from Preorder and Inorder Traversal | 105 | Leetcode |
| 16. | Construct Binary Tree from Preorder and Postorder Traversal | 889 | Leetcode |
| 17. | Binary Tree Paths | 257 | Leetcode |
| 18. | Right view of Binary tree |  | InterviewBit |
| 19. | Second Minimum Node In a Binary Tree | 671 | Leetcode |
| 20. | Validate Binary Search Tree | 98 | Leetcode |
| 21. | Balanced Binary Tree | 110 | Leetcode |
| 22. | Maximum Width of Binary Tree | 662 | Leetcode |
| 23. | Check Completeness of a Binary Tree | 958 | Leetcode |
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***Problems Not Solve in First Try:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Top K Frequent Elements | 347 | Leetcode |
| 2. | Sort Characters By Frequency | 451 | Leetcode |
| 3. | K-th Smallest Prime Fraction | 786 | Leetcode |
| 4. | N-th Tribonacci Number | 1137 | Leetcode |
| 5. | Rank Teams by Votes | 1366 | Leetcode |
| 6. | Diameter of Binary Tree | 543 | Leetcode |
| 7. | Same Tree | 100 | Leetcode |
| 8. | Binary Tree Level Order Traversal | 102 | Leetcode |
| 9. | Lowest Common Ancestor of a Binary Search Tree | 235 | Leetcode |
| 10. | Sorted Array To Balanced BST |  | InterviewBit |
| 11. | Merge Intervals | 56 | Leetcode |
| 12. | Merge Two Binary Trees | 617 | Leetcode |
| 13. | Binary Tree Zigzag Level Order Traversal | 103 | Leetcode |
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| 15. | Construct Binary Tree from Preorder and Inorder Traversal | 105 | Leetcode |
| 16. | Construct Binary Tree from Preorder and Postorder Traversal | 889 | Leetcode |
| 17. | Binary Tree Paths | 257 | Leetcode |
| 18. | Validate Binary Search Tree | 98 | Leetcode |
| 19. | Balanced Binary Tree | 110 | Leetcode |
| 20. | Super Pow | 372 | Leetcode |
| 21. | Minimum Moves to Equal Array Elements II | 462 | Leetcode |
| 22. | Prime Palindrome | 866 | Leetcode |
| 23. |  |  | Leetcode |
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