***Week – 3 (14.04.2021 – 18.04.2021)***

***Topics Completed:***

1. Linked List:
   * Implementation
   * Traversal
   * Print the list and Print the list in reverse order
   * Insert node and Delete node
     1. At beginning
     2. At the given position
     3. At the end
   * Reverse the Linked List
   * Double Linked List Implementation
   * Circular Linked List Implementation
   * Memory efficient Doubly Linked List
   * Unrolled Linked List
   * Skip List

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

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Problem Name | Problem Number | Platform |
| 1. | Swap Nodes in Pairs | 24 | Leetcode |
| 2. | Add Two Numbers | 2 | Leetcode |
| 3. | Rotate List | 61 | Leetcode |
| 4. |  |  |  |
| 5. |  |  |  |
| 6. |  |  |  |

***15 Solved Random Problems:***

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Problem Name | Problem Number | Platform |
| 1. | Single Number | 136 | Leetcode |
| 2. | Set Mismatch | 645 | Leetcode |
| 3. | Smallest Integer Divisible by K | 1015 | Leetcode |
| 4. | Smallest Range I | 908 | Leetcode |
| 5. | Calculate Money in Leetcode Bank | 1716 | Leetcode |
| 6. | Subtract the Product and Sum of Digits of an Integer | 1281 | Leetcode |
| 7. | Search in Rotated Sorted Array II | 81 | Leetcode |
| 8. | Height Checker | 1051 | Leetcode |
| 9. | Partition Array Into Three Parts With Equal Sum | 1013 | Leetcode |
| 10. | Sum of Even Numbers After Queries | 985 | Leetcode |
| 11. | Flip String to Monotone Increasing | 926 | Leetcode |
| 12. | Richest Customer Wealth | 1672 | Leetcode |
| 13. | Shift 2D Grid | 1260 | Leetcode |
| 14. | Check If It Is a Straight Line | 1232 | Leetcode |
| 15. | Can Place Flowers | 605 | Leetcode |

***Problems in PDF:***

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Problem Name | Problem Number | Platform |
| 1. | Remove Nth Node From End of List | 19 | Leetcode |
| 2. | Reverse Linked List | 206 | Leetcode |
| 3. | Reverse Linked List using Recursive Function | 206 | Leetcode |
| 4. | Add Two Numbers II | 445 | Leetcode |
| 5. | Palindrome Linked List | 234 | Leetcode |
| 6. | Merge Two Sorted Lists | 21 | Leetcode |
| 7. | Middle of the Linked List | 876 | Leetcode |
| 8. | Odd Even Linked List | 328 | Leetcode |
| 9. | Linked List Cycle (Detect Loop) | 141 | Leetcode |
| 10. | Reverse Alternate K Nodes | - | Interviewbit |
| 11. | Intersection point of Two Linked Lists | 160 | Leetcode |
| 12. | Reverse Nodes in k-Group | 25 | Leetcode |
| 13. | Swapping kth Node from beginning and end of a Linked List | 1721 | Leetcode |
| 14. |  |  |  |
| 15. |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Problem Name | Problem Number | Platform |
| 1. | Reverse Linked List using Recursive Function | 206 | Leetcode |
| 2. | Partition Array Into Three Parts With Equal Sum | 1013 | Leetcode |
| 3. | Add Two Numbers II | 445 | Leetcode |
| 4. | Shift 2D Grid | 1260 | Leetcode |
| 5. | Check If It Is a Straight Line | 1232 | Leetcode |
| 6. | Can Place Flowers | 605 | Leetcode |
| 7. | Palindrome Linked List | 234 | Leetcode |
| 8. | Merge Two Sorted Lists | 21 | Leetcode |
| 9. | Rotate List | 61 | Leetcode |
| 10. | Odd Even Linked List | 328 | Leetcode |
| 11. | Linked List Cycle (Detect Loop) | 141 | Leetcode |
| 12. | Reverse Alternate K Nodes | - | Interviewbit |
| 13. | Intersection point of Two Linked Lists | 160 | Leetcode |
| 14. | Reverse Nodes in k-Group | 25 | Leetcode |
| 15. | Swapping kth Node from beginning and end of a Linked List | 1721 | Leetcode |
| 16. |  |  |  |
| 17. |  |  |  |
| 18. |  |  |  |
| 19. |  |  |  |
| 20. |  |  |  |
| 21. |  |  |  |
| 22. |  |  |  |

***Leetcode Contest 50:***

Rank - 5685/10095

Mark – 7/18

Link - <https://leetcode.com/contest/biweekly-contest-50>