***Week – 9 (******13.06.2021 – 19.06.2021)***

***Topics Completed:***

1. Dynamic Programming

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

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Rod Cutting |  | InterviewBit |
| 2. |  |  | Leetcode |
| 3. |  |  | Leetcode |
| 4. |  |  | Leetcode |
| 5. |  |  | Leetcode |
| 6. |  |  |  |

***15 Solved Random Problems:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Decrypt String from Alphabet to Integer Mapping | 1309 | Leetcode |
| 2. | Defanging an IP Address | 1108 | Leetcode |
| 3. | Minimum Number of Steps to Make Two Strings Anagram | 1347 | Leetcode |
| 4. | Group Anagrams | 49 | Leetcode |
| 5. | Palindrome Pairs | 336 | Leetcode |
| 6. | Reverse Words in a String III | 557 | Leetcode |
| 7. | Second Largest Digit in a String | 1796 | Leetcode |
| 8. | Truncate Sentence | 1816 | Leetcode |
| 9. | Check if the Sentence Is Pangram | 1832 | Leetcode |
| 10. | Generate Parentheses | 22 | Leetcode |
| 11. | Complement of Base 10 Integer | 1009 | Leetcode |
| 12. | Closest Divisors | 1362 | Leetcode |
| 13. | Non-decreasing Array | 665 | Leetcode |
| 14. | Final Prices With a Special Discount in a Shop | 1475 | Leetcode |
| 15. | Sorting the Sentence | 1859 | Leetcode |

***Problems in PDF:***

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| S.No. | Problem Name | Problem Number | Platform |
| 1. | Fibonacci Number | 509 | Leetcode |
| 2. | 0-1 Knapsack |  | InterviewBit |
| 3. | Minimum Path Sum | 64 | Leetcode |
| 4. | Jump Game II | 45 | Leetcode |
| 5. | Maximal Square | 221 | Leetcode |
| 6. | Coin Change 2 | 518 | Leetcode |
| 7. | Longest Increasing Subsequence | 300 | Leetcode |
| 8. | Maximum Height by Stacking Cuboids | 1691 | Leetcode |
| 9. | Minimum Insertion Steps to Make a String Palindrome | 1312 | Leetcode |
| 10. | Longest Palindromic Substring | 5 | Leetcode |
| 11. | Longest Palindromic Subsequence | 516 | InterviewBit |
| 12. | Super Egg Drop | 887 | Leetcode |
| 13. | Max Sum of Rectangle No Larger Than K | 363 | Leetcode |
| 14. | Palindrome Partitioning II | 132 | Leetcode |
| 15. | Number of Dice Rolls With Target Sum | 1155 | Leetcode |
| 16. |  |  | Leetcode |
| 17. |  |  | Leetcode |
| 18. |  |  | InterviewBit |
| 19. |  |  | Leetcode |
| 20. |  |  | Leetcode |
| 21. |  |  | Leetcode |
| 22. |  |  | Leetcode |
| 23. |  |  | Leetcode |
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***Problems Not Solve in First Try:***

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| --- | --- | --- | --- |
| S.No. | Problem Name | Problem Number | Platform |
| 1. | Palindrome Pairs | 336 | Leetcode |
| 2. | 0-1 Knapsack |  | InterviewBit |
| 3. | Jump Game II | 45 | Leetcode |
| 4. | Complement of Base 10 Integer | 1009 | Leetcode |
| 5. | Closest Divisors | 1362 | Leetcode |
| 6. | Jump Game II | 45 | Leetcode |
| 7. | Maximal Square | 221 | Leetcode |
| 8. | Coin Change 2 | 518 | Leetcode |
| 9. | Longest Increasing Subsequence | 300 | Leetcode |
| 10. | Maximum Height by Stacking Cuboids | 1691 | Leetcode |
| 11. | Minimum Insertion Steps to Make a String Palindrome | 1312 | Leetcode |
| 12. | Longest Palindromic Substring | 5 | Leetcode |
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| 15. | Max Sum of Rectangle No Larger Than K | 363 | Leetcode |
| 16. | Non-decreasing Array | 665 | Leetcode |
| 17. | Final Prices With a Special Discount in a Shop | 1475 | Leetcode |
| 18. | Palindrome Partitioning II | 132 | Leetcode |
| 19. | Number of Dice Rolls With Target Sum | 1155 | Leetcode |
|  |  |  |  |
| 20. |  |  | Leetcode |
| 21. |  |  | Leetcode |
| 22. |  |  | Leetcode |