DSA Sheet 21/2/22------------------27/2/22

Topics
1. DP
2. Greedy
3. Binary Search
4. Sorting

Greedy:
1. https://leetcode.com/problems/partitioning-into-minimum-number-of-deci-binary-numbers/
2. https://leetcode.com/problems/max-increase-to-keep-city-skyline/
3. https://leetcode.com/problems/minimize-maximum-pair-sum-in-array/
4. https://leetcode.com/problems/balance-a-binary-search-tree/
5. https://leetcode.com/problems/partition-labels/
6. https://leetcode.com/problems/find-valid-matrix-given-row-and-column-sums/
7. https://leetcode.com/problems/maximum-number-of-coins-you-can-get/
8. https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/
9. https://leetcode.com/problems/score-after-flipping-matrix/
10. https://leetcode.com/problems/minimum-adjacent-swaps-to-reach-the-kth-smallest-number/

Binary Search:
1. https://leetcode.com/problems/capacity-to-ship-packages-within-d-days/
2. https://leetcode.com/problems/max-consecutive-ones-iii/ sliding window approach
3. https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/
4. https://leetcode.com/problems/range-sum-of-sorted-subarray-sums/
5. https://leetcode.com/problems/single-element-in-a-sorted-array/
6. https://leetcode.com/problems/find-the-duplicate-number/ using floyd's cycle detection algorithm
7. https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/ two pointer approach
8. https://leetcode.com/problems/minimum-limit-of-balls-in-a-bag/
9. https://leetcode.com/problems/maximize-the-confusion-of-an-exam/ sliding window approach
10. https://leetcode.com/problems/minimum-number-of-days-to-make-m-bouquets/

Sorting:

1. https://leetcode.com/problems/sort-the-matrix-diagonally/
2. https://leetcode.com/problems/minimize-maximum-pair-sum-in-array/
3. https://leetcode.com/problems/all-elements-in-two-binary-search-trees/
4. https://leetcode.com/problems/maximum-number-of-coins-you-can-get/
5. https://leetcode.com/problems/arithmetic-subarrays/
6. https://leetcode.com/problems/reveal-cards-in-increasing-order/
7. https://leetcode.com/problems/sort-integers-by-the-power-value/
8. https://leetcode.com/problems/queue-reconstruction-by-height/
9. https://leetcode.com/problems/custom-sort-string/
10. https://leetcode.com/problems/reduce-array-size-to-the-half/

DP:

1. https://leetcode.com/problems/count-sorted-vowel-strings/
2. https://leetcode.com/problems/count-square-submatrices-with-all-ones/
3. https://leetcode.com/problems/number-of-good-ways-to-split-a-string/
4. https://leetcode.com/problems/partition-array-for-maximum-sum/
5. https://leetcode.com/problems/sort-integers-by-the-power-value/
6. https://leetcode.com/problems/egg-drop-with-2-eggs-and-n-floors/
7. https://leetcode.com/problems/count-number-of-teams/
8. https://leetcode.com/problems/generate-parentheses/
9. https://leetcode.com/problems/minimum-cost-tree-from-leaf-values/
10. https://leetcode.com/problems/minimum-falling-path-sum/