1. Recursion

1. Subset – I | Sum Of all Subsets (pick or not pick)

<https://takeuforward.org/data-structure/subset-sum-sum-of-all-subsets/>

2. Subset – II | Print all the Unique Subsets (pick from any index and add check for not picking duplicate elements)

<https://takeuforward.org/data-structure/subset-ii-print-all-the-unique-subsets/>

3. Combination Sum – 1 (pick or not pick) stay on same index

<https://takeuforward.org/data-structure/combination-sum-1/>

4. Combination Sum II – Find all unique combinations (pick from any index and add check for not picking duplicate sets) **Skip**

<https://takeuforward.org/data-structure/combination-sum-ii-find-all-unique-combinations/>

5. Palindrome partitioning (pick from any index)

<https://takeuforward.org/data-structure/palindrome-partitioning/#google_vignette>

6. Climbing Stairs:

<https://takeuforward.org/data-structure/dynamic-programming-climbing-stairs/>

2. Recursion And Backtracking

1. Print All Permutations of a String/Array

<https://takeuforward.org/data-structure/print-all-permutations-of-a-string-array/>

(check solution at

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\PermutationOfArray\RecusriveApproach.java)

3. Dynamic Programming

1. Longest Increasing Subsequence (take or not take and return max length)

<https://takeuforward.org/data-structure/longest-increasing-subsequence-dp-41/>

Check Solution of recursive and Memoization DP at below location:

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\LongestIncreasingSubseq\_DP

2. Longest Common Subsequence

<https://takeuforward.org/data-structure/longest-common-subsequence-dp-25/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\LongestCommon\_Subseq\_DP

3. 0/1 Knapsack

<https://takeuforward.org/data-structure/0-1-knapsack-dp-19/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\Zero\_One\_knapsack

4. Coin Change

<https://takeuforward.org/data-structure/coin-change-2-dp-22/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\CoinChange2\_DP

5. Rod Cutting Problem

<https://takeuforward.org/data-structure/rod-cutting-problem-dp-24/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\sr c\Rod\_Cutting\_Problem\RecursiveApproach.java

3. Array Problems

1. Set Matrix Zeros:

<https://takeuforward.org/data-structure/set-matrix-zero/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\SetMatrixZero.java

2. Kadane’s Algorithm : Maximum Subarray Sum in an Array

<https://takeuforward.org/data-structure/kadanes-algorithm-maximum-subarray-sum-in-an-array/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\MaximumSubarraySum.java

3. Sort an array of 0s, 1s and 2s

<https://takeuforward.org/data-structure/sort-an-array-of-0s-1s-and-2s/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\SortArrayOfZeroOneTwo\_InPlace.java

4. Stock Buy And Sell

<https://takeuforward.org/data-structure/stock-buy-and-sell/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\Stock\_Buy\_And\_Sell.java

5. Merge two Sorted Arrays Without Extra Space

<https://takeuforward.org/data-structure/merge-two-sorted-arrays-without-extra-space/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\MergeTwoSortedArray\_withoutExtraSpace.java

6. Find the duplicate in an array of N+1 integers

<https://takeuforward.org/data-structure/find-the-duplicate-in-an-array-of-n1-integers/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\FindDuplicateInArray.java

7. Find the repeating and missing numbers

<https://takeuforward.org/data-structure/find-the-repeating-and-missing-numbers/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\FindMissingNumberInArray.java

8. Search in a sorted 2D matrix

<https://takeuforward.org/data-structure/search-in-a-sorted-2d-matrix/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\SearchElementIn2DMatrix.java

9>Grid Unique Paths | Count paths from left-top to the right bottom of a matrix

<https://takeuforward.org/data-structure/grid-unique-paths-count-paths-from-left-top-to-the-right-bottom-of-a-matrix/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\GridUniquePaths\_DPonGrid

10>Two Sum : Check if a pair with given sum exists in Array

<https://takeuforward.org/data-structure/two-sum-check-if-a-pair-with-given-sum-exists-in-array/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\TwoSum.java

11>Longest Consecutive Sequence in an Array

<https://takeuforward.org/data-structure/longest-consecutive-sequence-in-an-array/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\LongestConsecutiveSequenceInArray.java

12>Spiral Traversal of Matrix

<https://takeuforward.org/data-structure/spiral-traversal-of-matrix/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\SpiralMatrix.java

13>Leaders in an Array

<https://takeuforward.org/data-structure/leaders-in-an-array/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\LeadersInArray.java

14>Union of Two Sorted Arrays

<https://takeuforward.org/data-structure/union-of-two-sorted-arrays/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\UnionOfTwoSortedArray.java

15>Find the number that appears once, and the other numbers twice

<https://takeuforward.org/arrays/find-the-number-that-appears-once-and-the-other-numbers-twice/>

16>Find the missing number in an array

<https://takeuforward.org/arrays/find-the-missing-number-in-an-array/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\FindMissingNumberInArray.java

17>Remove Duplicates in-place from Sorted Array

<https://takeuforward.org/data-structure/remove-duplicates-in-place-from-sorted-array/>

18>Rotate array by K elements

<https://takeuforward.org/data-structure/rotate-array-by-k-elements/>

19>Move all Zeros to the end of the array

<https://takeuforward.org/data-structure/move-all-zeros-to-the-end-of-the-array/>

F:\eclipse\_workspaces\workspace\_DataStrucres\_Algo\_udemy\Blind75\_byStrivers\src\MoveZerosToEndOfAnArray.java

20>Count Maximum Consecutive One’s in the array

<https://takeuforward.org/data-structure/count-maximum-consecutive-ones-in-the-array/>

21>Check if the given String is Palindrome or not

<https://takeuforward.org/data-structure/check-if-the-given-string-is-palindrome-or-not/>

22>Check for Balanced Parentheses

<https://takeuforward.org/data-structure/check-for-balanced-parentheses/>

23>Max Product Sub array

<https://takeuforward.org/data-structure/maximum-product-subarray-in-an-array/>

24>Check Anagrams

<https://takeuforward.org/data-structure/check-if-two-strings-are-anagrams-of-each-other/>

25> refer String problems from   
<https://takeuforward.org/interviews/tcs-nqt-coding-sheet-tcs-coding-questions/#point_6>