**Arrays & Strings**

<https://www.hackerrank.com/contests/fau-coding-competition/challenges/guild-unique-characters> (What if you cannot use additional data structures)

<https://practice.geeksforgeeks.org/problems/anagram/0>

<https://practice.geeksforgeeks.org/problems/urlify-a-given-string/0>

<https://practice.geeksforgeeks.org/problems/anagram-palindrome/0>

<https://practice.geeksforgeeks.org/problems/run-length-encoding/1>

<https://practice.geeksforgeeks.org/problems/rotate-by-90-degree/0> (Can you do this in place)

<https://practice.geeksforgeeks.org/problems/boolean-matrix-problem/0>

<https://www.hackerrank.com/contests/codemania/challenges/string-rotation>

**Linked Lists**

<https://practice.geeksforgeeks.org/problems/reverse-a-linked-list/1>

<https://www.hackerrank.com/challenges/print-the-elements-of-a-linked-list-in-reverse/problem>

<https://practice.geeksforgeeks.org/problems/remove-duplicates-from-an-unsorted-linked-list/1> (How would you solve this problem if a temporary buffer is not allowed)

<https://practice.geeksforgeeks.org/problems/nth-node-from-end-of-linked-list/1>

<https://practice.geeksforgeeks.org/problems/delete-without-head-pointer/1>

<https://leetcode.com/problems/partition-list/>

<https://practice.geeksforgeeks.org/problems/add-two-numbers-represented-by-linked-lists/1> (Suppose the digits are stored in forward order. Repeat the above problem)

<https://practice.geeksforgeeks.org/problems/check-if-linked-list-is-pallindrome/1>

<https://practice.geeksforgeeks.org/problems/intersection-point-in-y-shapped-linked-lists/1>

<https://practice.geeksforgeeks.org/problems/detect-loop-in-linked-list/1>

**Stacks & Queues**

<https://practice.geeksforgeeks.org/problems/next-larger-element/0>

<https://www.geeksforgeeks.org/closest-greater-or-same-value-on-left-side-for-every-element-in-array/>

<https://www.interviewbit.com/problems/nearest-smaller-element/>

<https://www.geeksforgeeks.org/next-smaller-element/>

<https://practice.geeksforgeeks.org/problems/stock-span-problem/0>

<https://leetcode.com/problems/largest-rectangle-in-histogram/submissions/>

<https://leetcode.com/problems/maximal-rectangle/>

<https://practice.geeksforgeeks.org/problems/trapping-rain-water/0>

<https://practice.geeksforgeeks.org/problems/special-stack/1> (Using both extra space and without using extra space)

**Sorting & Searching**

**Trees & Graphs**

**Trie**

**Heap**

**Recursion & Dynamic Programming**

<https://practice.geeksforgeeks.org/problems/0-1-knapsack-problem/0>

<https://www.youtube.com/watch?v=_gPcYovP7wc&list=PL_z_8CaSLPWekqhdCPmFohncHwz8TY2Go&index=7>

<https://practice.geeksforgeeks.org/problems/subset-sum-problem/0>

<https://practice.geeksforgeeks.org/problems/perfect-sum-problem/0>

<https://practice.geeksforgeeks.org/problems/minimum-sum-partition/0>

<https://www.youtube.com/watch?v=ot_XBHyqpFc&list=PL_z_8CaSLPWekqhdCPmFohncHwz8TY2Go&index=12>

<https://leetcode.com/problems/target-sum/>

<https://practice.geeksforgeeks.org/problems/knapsack-with-duplicate-items/0>

<https://www.youtube.com/watch?v=SZqAQLjDsag&list=PL_z_8CaSLPWekqhdCPmFohncHwz8TY2Go&index=15>

<https://practice.geeksforgeeks.org/problems/cutted-segments/0>

<https://www.hackerrank.com/challenges/coin-change/problem>

<https://practice.geeksforgeeks.org/problems/number-of-coins/0>

<https://practice.geeksforgeeks.org/problems/longest-common-subsequence/0>

<https://practice.geeksforgeeks.org/problems/longest-common-substring/0>

<https://www.hackerrank.com/challenges/dynamic-programming-classics-the-longest-common-subsequence/problem>

<https://practice.geeksforgeeks.org/problems/shortest-common-supersequence/0>

<https://practice.geeksforgeeks.org/problems/minimum-number-of-deletions-and-insertions/0>

<https://leetcode.com/problems/longest-palindromic-subsequence/>

<https://practice.geeksforgeeks.org/problems/minimum-deletitions/0>

<https://leetcode.com/problems/edit-distance/>

<https://leetcode.com/problems/shortest-common-supersequence/>

<https://practice.geeksforgeeks.org/problems/longest-repeating-subsequence/0>

<https://www.youtube.com/watch?v=QVntmksK2es&list=PL_z_8CaSLPWekqhdCPmFohncHwz8TY2Go&index=32>

<https://practice.geeksforgeeks.org/problems/form-a-palindrome/0>

<https://practice.geeksforgeeks.org/problems/matrix-chain-multiplication/0>

Todo MCM problems