**Day 1-5**

**Company: Goldman Sachs**

1. [Given an array of strings, return all groups of strings that are anagrams.](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/print-anagrams-together/1/&sa=D&source=editors&ust=1640952722772000&usg=AOvVaw3AScIz3fMRodjlnBvlXbyn)
2. [Overlapping rectangles](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/overlapping-rectangles1924/1/&sa=D&source=editors&ust=1640952722773000&usg=AOvVaw2RnZO-gKujBeY36AAQE2o1)
3. [Count the subarrays having product less than k](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/count-the-subarrays-having-product-less-than-k1708/1/&sa=D&source=editors&ust=1640952722773000&usg=AOvVaw10gBMXpiTzOaAG_4MmksjR)
4. [Given a string, Your task is to  complete the function encode that returns the run length encoded string for the given string.](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/run-length-encoding/1/&sa=D&source=editors&ust=1640952722774000&usg=AOvVaw3uyqCVbwuWaibo_z5hHmfI) eg if the input string is “wwwwaaadexxxxxx”, then the function should return “w4a3d1e1x6″.(Modified version of question named Cute Monkeys)
5. [Program to find Nth Ugly Number.](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/ugly-numbers2254/1/&sa=D&source=editors&ust=1640952722775000&usg=AOvVaw3u_VT6qESb8nOkQQzDXJwp)
6. [Given two strings](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722775000&usg=AOvVaw074iQp-QfESdnUCeXwqsmc) [str1 and str2](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722776000&usg=AOvVaw0ij7BPjSuieRTKh6lHMzje)[. We say that str2 divides str1](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722777000&usg=AOvVaw1b9pysdBqTh8N7q0OVstlQ)[if it's possible](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722778000&usg=AOvVaw0UwQ58XF7GILnsP5FV1XAd) [to concatenate multiple str2 to get](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722778000&usg=AOvVaw0UwQ58XF7GILnsP5FV1XAd) [str1. For example, ab divides](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722779000&usg=AOvVaw2bQ4LF6Hs1t0sqpumpSsWz) [abab](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722780000&usg=AOvVaw2wtNg8WmtCdUuEhih-uFUt). [if str2 does not divide](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722780000&usg=AOvVaw2wtNg8WmtCdUuEhih-uFUt) [str1, return -1. Otherwise, return the smallest string str3 such that](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722781000&usg=AOvVaw3h6GtpKWxVTV0Xq5PwNJSx) [str3 divides both str1 and str2.](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1640952722782000&usg=AOvVaw1NjAIFCzU8OuDziLnh7742)
7. F[ind the kid which gets tha damaged toy](https://www.google.com/url?q=https://www.geeksforgeeks.org/distributing-m-items-circle-size-n-starting-k-th-position/&sa=D&source=editors&ust=1640952722782000&usg=AOvVaw30w1FllsJN6DF8ldc4ZZgz)
8. [Total Decoding Messages](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/total-decoding-messages1235/1/&sa=D&source=editors&ust=1640952722783000&usg=AOvVaw2Dxfh-UD9g4DyuPgFiivkk)
9. [Given a pattern containing only I's and D's. I for increasing and D](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/number-following-a-pattern3126/1&sa=D&source=editors&ust=1640952722783000&usg=AOvVaw3QwSLPJ8dB4-oMVVVM08_D) [for decreasing.Devise an algorithm to print the minimum number following](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/number-following-a-pattern3126/1&sa=D&source=editors&ust=1640952722784000&usg=AOvVaw2i0sxfUd-JXK8jl0_1o163) [that pattern.](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/number-following-a-pattern3126/1&sa=D&source=editors&ust=1640952722784000&usg=AOvVaw2i0sxfUd-JXK8jl0_1o163)
10. Find max 10 numbers in a list having 10M entries.
11. [Given an unsorted array Arr of size N of positive integers. One number](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/find-missing-and-repeating2512/1/&sa=D&source=editors&ust=1640952722785000&usg=AOvVaw3Q8uZoYj3TwIemseX6Oxjg)  ['A' from set {1, 2, …N} is missing and one number 'B'](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/find-missing-and-repeating2512/1/&sa=D&source=editors&ust=1640952722785000&usg=AOvVaw3Q8uZoYj3TwIemseX6Oxjg) [occurs twice in array. Find these two numbers.](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/find-missing-and-repeating2512/1/&sa=D&source=editors&ust=1640952722786000&usg=AOvVaw1UYSy-5nNVM6vI4bpNqXP4)
12. Find total number of Squares in a N\*N chessboard
13. [Decode the string](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/decode-the-string2444/1&sa=D&source=editors&ust=1640952722786000&usg=AOvVaw0pXEH0n33M9CBTxWMlooAG)
14. [Minimum Size Subarray Sum](https://www.google.com/url?q=https://leetcode.com/problems/minimum-size-subarray-sum/&sa=D&source=editors&ust=1640952722787000&usg=AOvVaw0mUsNfN8qDzAeEp9HJwxHP)
15. [Array Pair Sum Divisibility Problem](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/array-pair-sum-divisibility-problem3257/1&sa=D&source=editors&ust=1640952722787000&usg=AOvVaw0eIAtdKQpHjZulGaUTlW30)

All the best , Start today!!!!!