**1.**Goldman Sachs

Questions :

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=1644222310174875&usg=AOvVaw1G66lvl0Z6uKVRBKZ-iheY)
2. [Overlapping rectangles](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/overlapping-rectangles1924/1/&sa=D&source=editors&ust=1644222310175514&usg=AOvVaw0K7NGcF23U8A96TcMPgVpq)
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=1644222310175883&usg=AOvVaw2YTaW0yRKm8Kew2NgoU1T5)
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=1644222310176161&usg=AOvVaw1fGZ3vq9snq9Qzg5UBHgg9)

[eg if the input string is “wwwwaaadexxxxxx”, then the function should return “w4a3d1e1x6″.](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/run-length-encoding/1/&sa=D&source=editors&ust=1644222310176433&usg=AOvVaw0BfZZXCIEu0hhL04NCzmgR)(Modified version of question named Cute Monkeys)

1. [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=1644222310176681&usg=AOvVaw3c29dnZiCb6riqmvZiwHSj)

      6.    [Given two strings](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310176941&usg=AOvVaw2MywymOBVVsvHXWp4z_ejA)[str1](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310177101&usg=AOvVaw2pHMFRWFttJsYIs5qe1EzR)[and](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310177301&usg=AOvVaw0kV-nnRmOpXVHdHH7sUxB3)[str2](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310177451&usg=AOvVaw2t1ivk17lJkDV8D_Jzp3JN)[. We say that](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310177640&usg=AOvVaw1pH33QrnaJXsaOG4osNHSt)[str2](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310177803&usg=AOvVaw0C7dlvgTNyl8myVqWp3X1B)[divides](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310177947&usg=AOvVaw1Y_Y2ut1lky1CIjd6s40z1)[str1](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310178092&usg=AOvVaw10atcGaC3SiEdXcbEQCl-1)[if it's possible](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310178232&usg=AOvVaw2p7by-YBz4-qzOyVSlUJFL)

[to          concatenate multiple](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310178474&usg=AOvVaw1Gl0FHgwy2avh_if8tRiRe)[str2](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310178630&usg=AOvVaw0Z9cJ6g_wAmceQ9UoF0P3b)[to get](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310178801&usg=AOvVaw2PMC_DO4EKsdOziRV7Uzt6)[str1](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310178957&usg=AOvVaw1Fqto2bEhz0pA4OYLaAgBV)[. For example,](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310179110&usg=AOvVaw2WuH9YdJ-2kxl6dqeT9qfy)[ab](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310179250&usg=AOvVaw3vuVjs6zDm8FYkr-jW9iYL)[divides](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310179427&usg=AOvVaw3g--lfvCnDDi5-XDvaBvKx)[abab](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310179573&usg=AOvVaw1qZE382Wr7J0ilcDRWELX0)[.](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310179718&usg=AOvVaw0smrCKy0T_v8y1SBDtKF81)

[if](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310179964&usg=AOvVaw1t4q1PFx9Sr8dV3k1GEtle)[str2](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310180132&usg=AOvVaw3rfNz99LvKi8zangBMPwH5)[does not divide](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310180272&usg=AOvVaw21wMh9U9cHQkdlAybBQbQO)[str1](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310180408&usg=AOvVaw0UnbKsfYth9NJsPnp97ikK)[, return -1. Otherwise, return the smallest string](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310180563&usg=AOvVaw1n4mdaYImIwIBNqgrdlcsN)

[str3](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310180823&usg=AOvVaw03a9P_ENrgq6DF9xr0djhi)[such that](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310180984&usg=AOvVaw1zykcF5OlK07y9oZ0Sgi7Y)[str3](https://www.google.com/url?q=https://leetcode.com/problems/greatest-common-divisor-of-strings/&sa=D&source=editors&ust=1644222310181168&usg=AOvVaw3LUnsf36rPINm3HI2Z3hMC)[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=1644222310181321&usg=AOvVaw32k6HPtUSdkoYQ_hFakglW)

       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=1644222310181641&usg=AOvVaw1VDfAPf0xXbmJy1WSDxgHS)

       8. [Total Decoding Messages](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/total-decoding-messages1235/1/&sa=D&source=editors&ust=1644222310181944&usg=AOvVaw0dJidF2grIrHmPwqYaffJU)

       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=1644222310182428&usg=AOvVaw3kACirrDEIjjrL-H2CTRa5)

[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=1644222310182855&usg=AOvVaw27VUZnchtw-M5_zkL18Z6n)

[that pattern.](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/number-following-a-pattern3126/1&sa=D&source=editors&ust=1644222310183269&usg=AOvVaw1DxvuEsfTVfRgJoqluk3B4)

     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=1644222310183858&usg=AOvVaw2Fe7LSrWO0FrBg4RBe3g5H)

['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=1644222310184248&usg=AOvVaw0KbvUqFllGRqLD5zYYlBlX)

[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=1644222310184507&usg=AOvVaw3ERaOc8cGiGK7XNzclihop)

     12. [Find total number of Squares in a N\*N chessboard](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/squares-in-nn-chessboard1801/1&sa=D&source=editors&ust=1644222310184767&usg=AOvVaw0cdtqjsfJTt8LPdxKy3Txi)

    13.[Decode the string](https://www.google.com/url?q=https://practice.geeksforgeeks.org/problems/decode-the-string2444/1&sa=D&source=editors&ust=1644222310185003&usg=AOvVaw3YaRkrgcpUp60h1Kn19fGH)

    14.[Minimum Size Subarray Sum](https://www.google.com/url?q=https://leetcode.com/problems/minimum-size-subarray-sum/&sa=D&source=editors&ust=1644222310185237&usg=AOvVaw1QCVPRy8ak30YYVRczWk1d)

    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=1644222310185510&usg=AOvVaw2x-0ilsbRB4ccJFigv9wJ7)

**2.Microsoft**

1.[Divide an array into two sets S1 and S2 such that the absolute difference between their sums is minimum and find the minimum difference](https://practice.geeksforgeeks.org/problems/minimum-sum-partition3317/1/)

2.**[Prerequisite Tasks](https://practice.geeksforgeeks.org/problems/prerequisite-tasks/1/) (Similar to Question of Modern Park)**

**3.R[otate by 90 degree](https://practice.geeksforgeeks.org/problems/rotate-by-90-degree0356/1/)**

**4.** [**Given a matrix of size r\*c. Traverse the matrix in spiral form.**](https://practice.geeksforgeeks.org/problems/spirally-traversing-a-matrix-1587115621/1/)

5. **S**[**tock span problem**](https://practice.geeksforgeeks.org/problems/stock-span-problem-1587115621/1)

**6.[Possible Words From Phone Digits](https://practice.geeksforgeeks.org/problems/possible-words-from-phone-digits-1587115620/1/)**

**7.U[nit Area of largest region of 1's](https://practice.geeksforgeeks.org/problems/length-of-largest-region-of-1s-1587115620/1/)**

**8.C[onnect Nodes at Same Level](https://practice.geeksforgeeks.org/problems/connect-nodes-at-same-level/1/)**

**9.[Count Number of SubTrees having given Sum](https://practice.geeksforgeeks.org/problems/count-number-of-subtrees-having-given-sum/1/)**

**10.[Stickler Thief](https://practice.geeksforgeeks.org/problems/stickler-theif-1587115621/1/) (Similar to Alibaba and Thiefes Question)**

**11.[Generate and print all binary numbers with decimal values from 1 to N.](https://practice.geeksforgeeks.org/problems/generate-binary-numbers-1587115620/1/)**

12.[Find all the **unique** quadruple from the given array that sums up to the given number.](https://practice.geeksforgeeks.org/problems/find-all-four-sum-numbers1732/1)

13.[Given a Graph of V vertices and E edges and another edge(c - d), the task is to find if the given edge is a Bridge**.** i.e., removing the edge disconnects the graph.](https://practice.geeksforgeeks.org/problems/bridge-edge-in-graph/1)

14.[Given a destination **D** , find the **minimum** number of steps required to reach that destination.](https://practice.geeksforgeeks.org/problems/minimum-number-of-steps-to-reach-a-given-number5234/1/)

15.[Find the order of characters in the alien language.](https://practice.geeksforgeeks.org/problems/alien-dictionary/1/)

**3. Amazon :**

1.[Calculating Maximum Profit](https://practice.geeksforgeeks.org/problems/maximum-profit4657/1) (Multiple Ladders Question)

2.[Longest Mountain](https://leetcode.com/problems/longest-mountain-in-array/)

3.[IPL 2021 - Match Day 2](https://practice.geeksforgeeks.org/problems/deee0e8cf9910e7219f663c18d6d640ea0b87f87/1/) (similar to maximum in subarray)

4.[Brackets in Matrix Chain Multiplication](https://practice.geeksforgeeks.org/problems/brackets-in-matrix-chain-multiplication1024/1/)

5.[Phone directory](https://practice.geeksforgeeks.org/problems/phone-directory4628/1/) (Question similar to this based on Amazon Pay as a service)

6.[Maximum of all subarrays of size k](https://practice.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-k3101/1)

7.[First non-repeating character in a stream](https://practice.geeksforgeeks.org/problems/first-non-repeating-character-in-a-stream1216/1)

8.[Count ways to N'th Stair(Order does not matter)](https://practice.geeksforgeeks.org/problems/count-ways-to-nth-stairorder-does-not-matter1322/1/)

9.[Which among them forms a perfect Sudoku Pattern ?](https://practice.geeksforgeeks.org/problems/is-sudoku-valid4820/1/)

10.[Nuts and Bolts Problem](https://practice.geeksforgeeks.org/problems/nuts-and-bolts-problem0431/1)

11.[Tree Serialization and Deserialization](https://practice.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary-tree/1)

12.[Column name from a given column number](https://practice.geeksforgeeks.org/problems/column-name-from-a-given-column-number4244/1/)

13.[Rotten Oranges](https://leetcode.com/problems/rotting-oranges/) -Multiple Repetitions

14.[Tree Burning](https://practice.geeksforgeeks.org/problems/burning-tree/1/)

15. [Delete N nodes after M nodes of a linked list](https://practice.geeksforgeeks.org/problems/delete-n-nodes-after-m-nodes-of-a-linked-list/1/)

**4.Adobe:**

1.[Find a continuous sub-array which adds to a given number **S**.](https://practice.geeksforgeeks.org/problems/subarray-with-given-sum-1587115621/1)

2.[Find the length of the **L**ongest **A**rithmetic **P**rogression (LLAP) in it.](https://practice.geeksforgeeks.org/problems/longest-arithmetic-progression1019/1/)

3.**[Number of distinct Words with k maximum contiguous vowels](https://practice.geeksforgeeks.org/problems/7b9d245852bd8caf8a27d6d3961429f0a2b245f1/1/)**(Joe and his Dictionary Problem)

4.**[Partition Equal Subset Sum](https://practice.geeksforgeeks.org/problems/subset-sum-problem2014/1)**

5.[Total number of ways **n** can be expressed as sum of **x**th power of unique natural numbers](https://practice.geeksforgeeks.org/problems/express-as-sum-of-power-of-natural-numbers5647/1)

6.[Generate all combinations of well-formed(balanced) parentheses.](https://practice.geeksforgeeks.org/problems/generate-all-possible-parentheses/1/)

7.**[Pots of Gold Game](https://practice.geeksforgeeks.org/problems/pots-of-gold-game/1/) (Similar to Covid and Beds problem)**

**8.[ATOI](https://practice.geeksforgeeks.org/problems/implement-atoi/1/)**

**9.** [**Smallest palindromic number greater than N using the same set of digits as in N.**](https://practice.geeksforgeeks.org/problems/next-higher-palindromic-number-using-the-same-set-of-digits5859/1/)

**10.[Elections](https://practice.geeksforgeeks.org/problems/winner-of-an-election-where-votes-are-represented-as-candidate-names-1587115621/1/)**

**11.[String Amendment](https://practice.geeksforgeeks.org/problems/amend-the-sentence3235/1)**

**12.[Leaders in Array](https://practice.geeksforgeeks.org/problems/leaders-in-an-array-1587115620/1/)**

**13.[Minimum operations to convert array A to B](https://practice.geeksforgeeks.org/problems/minimum-insertions-to-make-two-arrays-equal/1/)**

**14.[Smallest range in K lists](https://practice.geeksforgeeks.org/problems/find-smallest-range-containing-elements-from-k-lists/1/)**

**15.**Given two library versions of an executable: for example, “10.1.1.3” and “10.1.1.9” or “10” and “10.1”. Find out which one is more recent? Strings can be empty also.

**5.Intuit**

1.<https://www.geeksforgeeks.org/partition-a-set-into-two-subsets-such-that-the-difference-of-subset-sums-is-minimum/>

2.<https://practice.geeksforgeeks.org/problems/word-search/1/>

3.**<https://practice.geeksforgeeks.org/problems/find-the-missing-no-in-string/1/>**

4.<https://practice.geeksforgeeks.org/problems/largest-number-in-k-swaps-1587115620/1>

5.<https://leetcode.com/problems/split-array-largest-sum/>

6.<https://leetcode.com/problems/find-in-mountain-array>

7.**<https://leetcode.com/problems/capacity-to-ship-packages-within-d-days>**

**8.<https://leetcode.com/problems/number-of-boomerangs/>**

**9.** [**https://leetcode.com/problems/pacific-atlantic-water-flow/**](https://leetcode.com/problems/pacific-atlantic-water-flow/)

**10.<https://leetcode.com/problems/number-of-provinces/>**

**11.<https://leetcode.com/problems/construct-quad-tree/>**

**12.<https://leetcode.com/problems/course-schedule-ii/>**

**13.<https://leetcode.com/problems/minimum-swaps-to-arrange-a-binary-grid>**

**14.<https://leetcode.com/problems/as-far-from-land-as-possible/>**

**15.<https://leetcode.com/problems/koko-eating-bananas/>**

**6.Walmart**

1. [Path with Maximum Probability](https://leetcode.com/problems/path-with-maximum-probability/)
2. <https://leetcode.com/problems/stone-game>
3. <https://leetcode.com/problems/remove-colored-pieces-if-both-neighbors-are-the-same-color> (Similar to Card Game Question)
4. <https://practice.geeksforgeeks.org/problems/number-of-unique-paths5339/1/>
5. <https://practice.geeksforgeeks.org/problems/transform-to-sum-tree/1/>
6. [https://practice.geeksforgeeks.org/problems/power-of-numbers-1587115620/1/](https://practice.geeksforgeeks.org/problems/power-of-numbers-1587115620/1/?company%5B%5D=Walmart&company%5B%5D=Walmart&page=1&query=company%5B%5DWalmartpage1company%5B%5DWalmart)(Similar to Jennifer and Numbers Question)
7. <https://practice.geeksforgeeks.org/problems/sorted-subsequence-of-size-3/1/>
8. [https://practice.geeksforgeeks.org/problems/maximum-height-tree4803/1/](https://practice.geeksforgeeks.org/problems/maximum-height-tree4803/1/?page=2&company%5B%5D=Walmart&query=page2company%5B%5DWalmart)
9. <https://leetcode.com/problems/guess-number-higher-or-lower-ii>
10. <https://leetcode.com/problems/generate-random-point-in-a-circle>
11. [Maximum Performance of a Team](https://leetcode.com/problems/maximum-performance-of-a-team) (Dashboard Question Similar)
12. <https://leetcode.com/problems/find-array-given-subset-sums>
13. [Find the Kth Largest Integer in the Array](https://leetcode.com/problems/find-the-kth-largest-integer-in-the-array) (Cows and Farm Question)
14. <https://practice.geeksforgeeks.org/problems/largest-number-in-k-swaps-1587115620/1/>
15. https://leetcode.com/problems/divide-two-integers/