**#ReviseWithArsh #6Companies30Days** Challenge 2023 **[Updated 26st JANUARY ‘23]**

A Challenge to make sure you start with your goals today , don’t procrastinate and don’t let your college decide your future!

For complete details about the Challenge , go through the video (in Hindi) : <https://linktw.in/z8I9wr>

**Benefits** (For the ones who complete the Challenge) :

* Top 90-100 most frequently asked and most important questions by most big tech companies will be done.
* The ones who complete this challenge will be given referrals for top tech companies and startups.
* A special surprise gift for top performers.
* Special 1 on 1 mentoring session on how to plan the things after this challenge - related to projects , revision , CS Fundamentals, Interview Tips , etc.

**Rules :**

* Complete 1 company (15 Questions) in 5 days and try maintaining a github repository to store all the codes which can be later used as notes .You can name the repository as #6Companies30days or #ReviseWithArsh.
* The questions provided will be on a gap of 5 days for a new company i.e from 1st to 5th Jan,6th to 10th Jan and so on.
* Completing questions in these 5 days can be in any format - 3 questions a day or maybe 6 questions a day.
* You need to start the challenge by putting in a post on LinkedIn, Instagram, Twitter with hashtag #6Companies30days and #ReviseWithArsh and tag “Arsh Goyal” so that your entry can be tracked and you are eligible for referrals and other benefits.
* Why wait to start- start it today!

Challenge Company 1 : Microsoft

1. [You are given an array of strings tokens that represents an arithmetic expression in a Reverse Polish Notation.](https://leetcode.com/problems/evaluate-reverse-polish-notation/)
2. [Combination Sum with a twist.](https://leetcode.com/problems/combination-sum-iii/)
3. [Bulls and Cows](https://leetcode.com/problems/bulls-and-cows/)
4. [You are given an integer array nums of length n. Return maximum length of Rotation Function.](https://leetcode.com/problems/rotate-function/)
5. [Largest Divisible Subset.](https://leetcode.com/problems/largest-divisible-subset/)
6. [How to find a perfect Rectangle.](https://leetcode.com/problems/perfect-rectangle/)
7. [Scheduling a Course.](https://leetcode.com/problems/course-schedule/)
8. [Profitable Path in a Tree.](https://leetcode.com/problems/most-profitable-path-in-a-tree/)
9. [Number of Pairs satisfying Inequality.](https://leetcode.com/problems/number-of-pairs-satisfying-inequality/)
10. [Shortest Unsorted continuous Subarray](https://leetcode.com/problems/shortest-unsorted-continuous-subarray/)
11. [Number of ways to arrive at a Destination.](https://leetcode.com/problems/number-of-ways-to-arrive-at-destination/)
12. [Longest Happy Prefix](https://leetcode.com/problems/longest-happy-prefix/)
13. [Seat Arrangement in a SpiceJet Problem - Online OA February ‘22](https://leetcode.com/problems/airplane-seat-assignment-probability/)
14. [Deletions to make an array divisible.](https://leetcode.com/problems/minimum-deletions-to-make-array-divisible/)
15. [Substrings containing all three Characters](https://leetcode.com/problems/number-of-substrings-containing-all-three-characters/)

Challenge Company 2 : Goldman Sachs

1. [Max Points on a Line](https://leetcode.com/problems/max-points-on-a-line/)
2. [Valid Square](https://leetcode.com/problems/valid-square/)
3. [Factorial with Trailing Zeroes](https://leetcode.com/problems/factorial-trailing-zeroes/)
4. [Number of Boomerangs](https://leetcode.com/problems/number-of-boomerangs/) (Similar to peacocks question)
5. [Split Array into Sequences](https://leetcode.com/problems/split-array-into-consecutive-subsequences/)
6. [Minimum Consecutive Cards to pick up](https://leetcode.com/problems/minimum-consecutive-cards-to-pick-up/)
7. [Count Good Triplets in Array](https://leetcode.com/problems/count-good-triplets-in-an-array/) (Profits in a Startup Question)
8. [Maximum Points in Archery Competition](https://leetcode.com/problems/maximum-points-in-an-archery-competition/)
9. [Initial Public Offering](https://leetcode.com/problems/ipo/)
10. [People and Secret](https://leetcode.com/problems/number-of-people-aware-of-a-secret/)
11. [Invalid Transactions in an EMI](https://leetcode.com/problems/invalid-transactions/)
12. [All elements of a binary Search Tree](https://leetcode.com/problems/all-elements-in-two-binary-search-trees/)
13. [Rhombus Sums in a GRID](https://leetcode.com/problems/get-biggest-three-rhombus-sums-in-a-grid/)
14. [Nice Pairs in Array](https://leetcode.com/problems/count-nice-pairs-in-an-array/) (OTT Platforms and John)
15. [Good People based on Statements](https://leetcode.com/problems/maximum-good-people-based-on-statements/)

Company 3 : Adobe

1. [Fraction to a recurring Decimal](https://leetcode.com/problems/fraction-to-recurring-decimal/)
2. [Increasing Triplet Sequence](https://leetcode.com/problems/increasing-triplet-subsequence/)
3. [Kth smallest in Lexographical Order](https://leetcode.com/problems/k-th-smallest-in-lexicographical-order/)
4. [Magical String](https://leetcode.com/problems/magical-string/)
5. [Non Negative Integers without consecutive ones](https://leetcode.com/problems/non-negative-integers-without-consecutive-ones/)
6. [Knight in a Chessboard](https://leetcode.com/problems/knight-probability-in-chessboard/)
7. [Matching Subsequences](https://leetcode.com/problems/number-of-matching-subsequences/)
8. [Genetic Mutation](https://leetcode.com/problems/minimum-genetic-mutation/)
9. [Count nodes equal to average of Subtree](https://leetcode.com/problems/count-nodes-equal-to-average-of-subtree/)
10. [Max matrix Sum](https://leetcode.com/problems/maximum-matrix-sum/)
11. [Stock Price Fluctuation](https://leetcode.com/problems/stock-price-fluctuation/)
12. [Shortest Unsorted Continuous Subarray](https://leetcode.com/problems/shortest-unsorted-continuous-subarray/)
13. [Game of Dungeon](https://leetcode.com/problems/dungeon-game/)
14. [People aware of secret](https://leetcode.com/problems/number-of-people-aware-of-a-secret/)
15. [Kth smallest Trimmed number](https://leetcode.com/problems/query-kth-smallest-trimmed-number/)

Company 4 : Flipkart

1. [Partition to K Equal Sum Subsets](https://leetcode.com/problems/partition-to-k-equal-sum-subsets/)
2. [Sale and Offers at Flipkart BBD](https://leetcode.com/problems/shopping-offers/)
3. [Remove Zero Sum Consecutive Nodes](https://leetcode.com/problems/remove-zero-sum-consecutive-nodes-from-linked-list/)
4. [Winner of the Game](https://leetcode.com/problems/find-the-winner-of-the-circular-game/)
5. [Finding the Mountain Array](https://leetcode.com/problems/find-in-mountain-array/)
6. [N­umber of ways to s­eparate Numbers](https://leetcode.com/problems/number-of-ways-to-separate-numbers/)
7. [City With the Smallest Number of Neighbors at a Threshold Distance](https://leetcode.com/problems/find-the-city-with-the-smallest-number-of-neighbors-at-a-threshold-distance/)
8. [Closest Primes in Range](https://leetcode.com/problems/closest-prime-numbers-in-range/)
9. [Top K frequent Words](https://leetcode.com/problems/top-k-frequent-words/)
10. [Distant Barcodes](https://leetcode.com/problems/distant-barcodes/)\
11. [The new game to Play](https://leetcode.com/problems/new-21-game/)
12. [Check If a String Contains All Binary Codes of Size K](https://leetcode.com/problems/check-if-a-string-contains-all-binary-codes-of-size-k/)
13. [Max Area of Island](https://leetcode.com/problems/max-area-of-island/https://leetcode.com/problems/max-area-of-island/)
14. [Custom String Sorting](https://leetcode.com/problems/custom-sort-string/)
15. [House Robber - Very Imp.](https://leetcode.com/problems/house-robber-iii/)

Company 5 : Google

1. [Maximum Consecutive Floors Without Special Floors](https://leetcode.com/problems/maximum-consecutive-floors-without-special-floors/)
2. [Maximum Good People Based on Statements](https://leetcode.com/problems/maximum-good-people-based-on-statements/)
3. [Sort an array](https://leetcode.com/problems/sort-an-array/)
4. [Fruit into Baskets](https://leetcode.com/problems/fruit-into-baskets/)
5. [Number of Closed Islands](https://leetcode.com/problems/number-of-closed-islands/)
6. [Distinct Echo Substrings](https://leetcode.com/problems/distinct-echo-substrings/)
7. [K divisible Array Substrings](https://leetcode.com/problems/k-divisible-elements-subarrays/)
8. [Random Pick with Weight](https://leetcode.com/problems/random-pick-with-weight/) (New Project at Google Play Services)
9. [Maximum Numbers of Coins you can get](https://leetcode.com/problems/maximum-number-of-coins-you-can-get/)
10. [Network Delay Time](https://leetcode.com/problems/network-delay-time/)
11. [Matrix Block Sum](https://leetcode.com/problems/matrix-block-sum/)
12. [Restore IP Addresses](https://leetcode.com/problems/restore-ip-addresses/)
13. [Swim in rising Water](https://leetcode.com/problems/swim-in-rising-water/) (Jeff and the rising hat)
14. [Strictly Palindromic Number](https://leetcode.com/problems/strictly-palindromic-number/)
15. [Max Compatibility Score](https://leetcode.com/problems/maximum-compatibility-score-sum/)

Company 6 : Amazon

1. [Shuffle an array](https://leetcode.com/problems/shuffle-an-array/)
2. [Cheapest Flights with K stops](https://leetcode.com/problems/cheapest-flights-within-k-stops/) (Flight system in Europe)
3. [Split String into maximum number of Unique Substrings](https://leetcode.com/problems/split-a-string-into-the-max-number-of-unique-substrings/)
4. [Tweet Count per Frequency](https://leetcode.com/problems/tweet-counts-per-frequency/)
5. [Maximum sum of hourglass](https://leetcode.com/problems/maximum-sum-of-an-hourglass/)
6. [Maximum Subarray Min Product](https://leetcode.com/problems/maximum-subarray-min-product/) (Amazon Fresh and the team)
7. [Dota2 Senate](https://leetcode.com/problems/dota2-senate/)
8. [Destroying Asteroids](https://leetcode.com/problems/destroying-asteroids/)
9. [Most Popular Video Creator](https://leetcode.com/problems/most-popular-video-creator/)
10. [Number of Matching Subsequences](https://leetcode.com/problems/number-of-matching-subsequences/) (The stewart and the puppy)
11. [Number of ways to reach a position](https://leetcode.com/problems/number-of-ways-to-reach-a-position-after-exactly-k-steps/)
12. [Maximum Length of Repeated Subarray](https://leetcode.com/problems/maximum-length-of-repeated-subarray/)
13. [Top K frequent words](https://leetcode.com/problems/top-k-frequent-words/)
14. [Last Moment before all ants Fall out](https://leetcode.com/problems/last-moment-before-all-ants-fall-out-of-a-plank/)
15. [Generate Random point in a circle](https://leetcode.com/problems/generate-random-point-in-a-circle/)

Go ahead! All the best :) Please do share your feedbacks on Linkedin tagging @Arsh Goyal , hope this challenge was helpful :)

Next steps will be there in a new video!

**College Club | Society | Training and Placement Cell Collaboration :**

* If you are the **Training Placement Coordinator | Coding Club or Society Head | Lead or CSE/IT Department** and wish to take this initiative to your college , mail at [**business.arshgoyal@gmail.com**](mailto:business.arshgoyal@gmail.com) with your college/club name and estimated participation and social media handles of the club/tpo (if any).
* If shortlisted , you help improve your college Coding culture and make a difference. A **special customised video message** will also be shared by ‘Arsh Goyal’ with your college/club name announcing this challenge for your college.
* Already collaborated with **Thapar , IGDTUW , IIIT Pune , IIIT Guwahati , and 40+ more colleges** last year - Let it be yours this time!