

Link to Educator's Profile:

<https://unacademy.com/@anujksingh>

Lectures:

Arrays, Sorting, Binary Search, Queue, Stacks, Heaps, Maps, Sets Playlist

<https://www.youtube.com/playlist?list=PLAa4Q914LSAbgsZRmUEIMPGmYtt4rmnIT>

Recursion Playlist

<https://www.youtube.com/playlist?list=PLAa4Q914LSAY4CizLqvA4u9T8WO3gnCpu>

Leetcode Upsolving Playlist

https://www.youtube.com/playlist?list=PLAa4Q914LSAaTQ7m1Sddeb_OaQ7WXNuih

Mathematics for Competitive Programming & Interview Preparation

<https://unacademy.com/class/maths-for-competitive-programming-lecture-1/77Y7TPEV>

<https://unacademy.com/class/maths-for-competitive-programming-lecture-2/5X8CTVG0>

<https://unacademy.com/class/maths-for-competitive-programming-lecture-3/O09Y7NUA>

Time & Space Complexity Analysis in One Video

<https://unacademy.com/class/analysis-of-algorithms/Z1X4YGXA>

Bit Manipulation in One Video

<https://unacademy.com/class/bit-manipulation-beginner-to-advance/K0JAWR9C>

N-ary Trees & DP on Trees(Type - 1)

<https://unacademy.com/educator/class/introduction-to-trees/HAJCKC1T>

Dynamic Programming

<https://unacademy.com/class/introduction-to-dynamic-programming/C8J8TWQ1>

Practice Problems

Arrays Lecture - 1, Lecture - 2, Sorting

Own Questions: Check at the end of the lectures

Binary Search

<https://leetcode.com/problems/intersection-of-two-arrays/>
<https://leetcode.com/problems/intersection-of-two-arrays-ii/>
<https://leetcode.com/problems/sqrtx/>
<https://leetcode.com/problems/first-bad-version/>
<https://leetcode.com/problems/single-element-in-a-sorted-array/>
<https://leetcode.com/problems/search-a-2d-matrix/>
<https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/>
<https://leetcode.com/problems/search-in-rotated-sorted-array/>
<https://leetcode.com/problems/find-in-mountain-array/>
<https://leetcode.com/problems/magnetic-force-between-two-balls/>
<https://leetcode.com/problems/koko-eating-bananas/>
<https://leetcode.com/problems/capacity-to-ship-packages-within-d-days/>
<https://leetcode.com/problems/minimum-number-of-days-to-make-m-bouquets/>
<https://leetcode.com/problems/split-array-largest-sum/>

<https://www.spoj.com/problems/SUMFOUR/>
<https://www.spoj.com/problems/ABCDEF/>
<https://www.spoj.com/problems/AGGRCOW/>
<https://www.spoj.com/problems/BOOKS1/>
<https://www.spoj.com/problems/EKO/>

Stacks/Queue

<https://leetcode.com/problems/valid-parentheses/>
<https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/>
<https://leetcode.com/problems/minimum-remove-to-make-valid-parentheses/>
<https://leetcode.com/problems/largest-rectangle-in-histogram/>
<https://leetcode.com/problems/reverse-substrings-between-each-pair-of-parentheses/>

<https://leetcode.com/problems/sum-of-subarray-minimums/>
<https://leetcode.com/problems/sliding-window-maximum/>
<https://leetcode.com/problems/trapping-rain-water/>

Heaps/Priority Queue

Medium:

<https://leetcode.com/problems/kth-largest-element-in-a-stream/>
<https://leetcode.com/problems/top-k-frequent-elements/>
<https://leetcode.com/problems/top-k-frequent-words/>
<https://leetcode.com/problems/k-closest-points-to-origin/>
<https://leetcode.com/problems/distant-barcodes/>
<https://leetcode.com/problems/reorganize-string/>
<https://leetcode.com/problems/number-of-orders-in-the-backlog/>
<https://leetcode.com/problems/single-threaded-cpu/>
<https://leetcode.com/problems/find-k-pairs-with-smallest-sums/>
<https://leetcode.com/problems/design-twitter/>

Hard:

<https://leetcode.com/problems/sliding-window-maximum/>
<https://leetcode.com/problems/merge-k-sorted-lists/>
<https://leetcode.com/problems/find-median-from-data-stream/>

Maps and Sets

<https://leetcode.com/problems/sum-of-unique-elements/>
<https://leetcode.com/problems/intersection-of-two-arrays/>
<https://leetcode.com/problems/design-hashset/>
<https://leetcode.com/problems/design-hashmap/>
<https://leetcode.com/problems/sort-characters-by-frequency/>
<https://leetcode.com/problems/group-anagrams/>
<https://leetcode.com/problems/sum-of-beauty-of-all-substrings/>
<https://leetcode.com/problems/count-nice-pairs-in-an-array/>
<https://leetcode.com/problems/number-of-ways-where-square-of-number-is-equal-to-product-of-two-numbers/>
<https://leetcode.com/problems/longest-substring-without-repeating-characters/>

Mixed Problems

<https://leetcode.com/problems/subarray-sum-equals-k/>
<https://leetcode.com/problems/continuous-subarray-sum/>
<https://leetcode.com/problems/maximum-sum-circular-subarray/>
<https://leetcode.com/problems/number-of-sub-arrays-with-odd-sum/>
<https://leetcode.com/problems/subarrays-with-k-different-integers/>
<https://leetcode.com/problems/ways-to-split-array-into-three-subarrays/>
<https://leetcode.com/problems/count-number-of-nice-subarrays/>
<https://leetcode.com/problems/container-with-most-water/>
<https://leetcode.com/problems/minimum-number-of-arrows-to-burst-balloons/>
<https://leetcode.com/problems/insert-delete-getrandom-o1/>
<https://leetcode.com/problems/insert-delete-getrandom-o1-duplicates-allowed/>
<https://leetcode.com/problems/lru-cache/>
<https://leetcode.com/problems/minimum-operations-to-reduce-x-to-zero/>
<https://leetcode.com/problems/k-diff-pairs-in-an-array/>
<https://leetcode.com/problems/smallest-range-covering-elements-from-k-lists/>
<https://leetcode.com/problems/minimum-window-substring/>
<https://leetcode.com/problems/trapping-rain-water/>
<https://leetcode.com/problems/3sum/>
<https://leetcode.com/problems/4sum/>
<https://leetcode.com/problems/3sum-with-multiplicity/>
<https://leetcode.com/problems/binary-subarrays-with-sum/>
<https://leetcode.com/problems/remove-duplicates-from-sorted-array/>
<https://leetcode.com/problems/remove-duplicates-from-sorted-array-ii/>
<https://leetcode.com/problems/intersection-of-two-arrays-ii/>
<https://leetcode.com/problems/intersection-of-two-arrays-ii/>
<https://leetcode.com/problems/partition-labels/>
<https://leetcode.com/problems/count-number-of-nice-subarrays/>

Recursion

<https://leetcode.com/problems/sum-of-all-subset-xor-totals/> (Try using Subset Generation and Recursion Both)

<https://leetcode.com/problems/subsets/> (Using Recursion)

<https://leetcode.com/problems/subsets-ii/> (Using Recursion)

Q. Given a set of numbers S and a target number K, find all unique combinations in A where the candidate numbers sum to K. (Search on Google you would get similar question)

<https://leetcode.com/problems/partition-to-k-equal-sum-subsets/>

<https://leetcode.com/problems/n-th-tribonacci-number/> (TLE is expected)

<https://leetcode.com/problems/check-if-number-is-a-sum-of-powers-of-three/> (Try using Subset Generation and Recursion Both)

Bit Manipulation

Subset Generation

<https://leetcode.com/problems/subsets/>
<https://leetcode.com/problems/subsets-ii/>
<https://www.codechef.com/problems/MARCHA1/>
<https://codeforces.com/problemset/problem/550/B>

Meet in the middle

<https://www.codechef.com/MAY17/problems/CHEFCODE>

Dynamic Programming

<https://leetcode.com/problems/longest-palindromic-subsequence/>
<https://leetcode.com/problems/longest-common-subsequence/>
<https://leetcode.com/problems/longest-increasing-subsequence/>
<https://leetcode.com/problems/partition-equal-subset-sum/>
<https://leetcode.com/problems/range-sum-query-immutable/>
<https://leetcode.com/problems/min-cost-climbing-stairs/>
<https://leetcode.com/problems/jump-game/>
<https://leetcode.com/problems/jump-game-ii/>
<https://leetcode.com/problems/unique-paths-ii/>
<https://leetcode.com/problems/minimum-cost-for-tickets/>
<https://leetcode.com/problems/longest-palindromic-substring/>
<https://leetcode.com/problems/unique-paths/>
<https://leetcode.com/problems/divisor-game/>
<https://leetcode.com/problems/counting-bits/>
<https://leetcode.com/problems/maximum-subarray/>
<https://leetcode.com/problems/count-sorted-vowel-strings/>
<https://leetcode.com/problems/partition-array-for-maximum-sum/>
<https://leetcode.com/problems/minimum-path-sum/>
<https://leetcode.com/problems/combination-sum-iv/>
<https://leetcode.com/problems/combination-sum-iii/>
<https://leetcode.com/problems/stone-game/>
<https://leetcode.com/problems/continuous-subarray-sum/>
<https://leetcode.com/problems/jump-game-v/>
<https://leetcode.com/problems/palindrome-partitioning-iii/>
<https://leetcode.com/problems/palindrome-partitioning-ii/>
<https://leetcode.com/problems/palindrome-partitioning/>
<https://leetcode.com/problems/edit-distance/>
<https://leetcode.com/problems/matrix-block-sum/>

<https://leetcode.com/problems/count-square-submatrices-with-all-ones/>
<https://leetcode.com/problems/stone-game/>

DP on Trees

<https://cses.fi/problemset/task/1674> (Type-2 DP)
<https://cses.fi/problemset/task/1131> (Type-1 DP)
<https://cses.fi/problemset/task/1132> (In-Out DP)
<https://cses.fi/problemset/task/1133> (In-Out DP)
<https://leetcode.com/problems/most-frequent-subtree-sum/> (Type-1 DP)
<https://leetcode.com/problems/sum-of-distances-in-tree/> (In-Out DP)