



Java's DataStructures and Algorithms

Are you targeting to FAANG type of companies????

Do you want to rule the IT industry with the coding mania???

Do you want the package minimum 10 LPA as a fresher????

Do you want the salary jump to 5X?????

Do you want to learn the LeetCode and HackerRank challenges with an experienced faculty????

Please find the details

Class Timing : 9.00 PM to 6.00 PM

Class type : In-class

Course Content :

Arrays :

<https://leetcode.com/problems/kth-largest-element-in-an-array/>

<https://leetcode.com/problems/neither-minimum-nor-maximum/>

<https://leetcode.com/problems/sort-colors/>

<https://leetcode.com/problems/missing-number/>

<https://leetcode.com/problems/maximum-product-of-three-numbers/>

<https://leetcode.com/problems/remove-duplicates-from-sorted-array/>

<https://takeuforward.org/data-structure/left-rotate-the-array-by-one/>

<https://leetcode.com/problems/rotate-array/>

<https://leetcode.com/problems/move-zeroes/>

<https://leetcode.com/problems/max-consecutive-ones/>

<https://leetcode.com/problems/rotate-image/>

<https://leetcode.com/problems/spiral-matrix/>

<https://leetcode.com/problems/spiral-matrix-ii/>

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock>

Strings :

<https://leetcode.com/problems/valid-anagram/>

<https://leetcode.com/problems/reverse-string/>

<https://leetcode.com/problems/reverse-words-in-a-string/>

<https://leetcode.com/problems/valid-palindrome/>

<https://leetcode.com/problems/valid-palindrome-ii/>

<https://leetcode.com/problems/consecutive-characters/>

<https://leetcode.com/problems/longest-common-prefix/>

HashMap & Sliding window technique :

<https://leetcode.com/problems/first-unique-character-in-a-string/>

<https://leetcode.com/problems/first-letter-to-appear-twice/>

<https://www.geeksforgeeks.org/counting-frequencies-of-array-elements/>

<https://leetcode.com/problems/sort-characters-by-frequency/>

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

<https://www.geeksforgeeks.org/find-a-pair-with-the-given-difference/>

<https://leetcode.com/problems/3sum/>

<https://leetcode.com/problems/intersection-of-two-arrays/>

<https://leetcode.com/problems/intersection-of-two-arrays-ii/>

<https://leetcode.com/problems/longest-substring-without-repeating-characters/>

<https://leetcode.com/problems/longest-substring-with-at-most-two-distinct-characters/>

<https://leetcode.com/problems/longest-substring-with-at-most-k-distinct-characters/>

<https://leetcode.com/problems/longest-repeating-character-replacement/>

<https://www.geeksforgeeks.org/find-if-there-is-a-subarray-with-0-sum/>

<https://leetcode.com/problems/subarray-sum-equals-k/>

<https://leetcode.com/problems/subarray-sums-divisible-by-k/>

<https://leetcode.com/problems/valid-anagram/>

<https://leetcode.com/problems/group-anagrams/>

<https://leetcode.com/problems/max-consecutive-ones/>

<https://www.lintcode.com/problem/883/>

<https://leetcode.com/problems/max-consecutive-ones-iii/>

<https://leetcode.com/problems/lru-cache/>

<https://leetcode.com/problems/sliding-window-maximum/>

Stacks and Queues :

<https://www.geeksforgeeks.org/stack-data-structure/>

<https://www.javatpoint.com/ds-array-implementation-of-stack>

<https://leetcode.com/problems/valid-parentheses/>

<https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/>

<https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string-ii/>

<https://leetcode.com/problems/removing-stars-from-a-string/>

<https://leetcode.com/problems/next-greater-element-i/>

<https://leetcode.com/problems/next-greater-element-ii/>

<https://leetcode.com/problems/daily-temperatures/>

<https://leetcode.com/problems/trapping-rain-water/>

<https://leetcode.com/problems/top-k-frequent-elements/>

<https://www.geeksforgeeks.org/queue-data-structure/>

<https://www.geeksforgeeks.org/array-implementation-of-queue-simple/>

<https://leetcode.com/problems/implement-queue-using-stacks>

<https://leetcode.com/problems/implement-stack-using-queues>

<https://leetcode.com/problems/kth-largest-element-in-an-array/>

Sum of K largest elements

<https://takeuforward.org/data-structure/kth-largest-smallest-element-in-an-array/>

Sum of k minimum elements

Linked list :

<https://www.geeksforgeeks.org/search-an-element-in-a-linked-list-iterative-and-recursive/>

<https://www.geeksforgeeks.org/find-length-of-a-linked-list-iterative-and-recursive/>

<https://leetcode.com/problems/middle-of-the-linked-list>

<https://leetcode.com/problems/delete-the-middle-node-of-a-linked-list>

<https://leetcode.com/problems/merge-two-sorted-lists>

<https://leetcode.com/problems/palindrome-linked-list>

<https://leetcode.com/problems/remove-nth-node-from-end-of-list>

<https://leetcode.com/problems/remove-duplicates-from-sorted-list>

<https://leetcode.com/problems/remove-linked-list-elements>

<https://leetcode.com/problems/delete-node-in-a-linked-list>

<https://leetcode.com/problems/reverse-linked-list>

<https://leetcode.com/problems/swapping-nodes-in-a-linked-list>

<https://leetcode.com/problems/flatten-binary-tree-to-linked-list>

<https://leetcode.com/problems/odd-even-linked-list>

Recursion :

<https://www.geeksforgeeks.org/introduction-to-recursion-data-structure-and-algorithm-tutorials/>

Print 1 to 10 using recursion

<https://www.geeksforgeeks.org/java-program-for-factorial-of-a-number/>

<https://www.geeksforgeeks.org/java-program-to-display-numbers-and-sum-of-first-n-natural-numbers/>

<https://leetcode.com/problems/fibonacci-number/>

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

<https://leetcode.com/problems/combination-sum-ii/>

<https://leetcode.com/problems/subsets/>

<https://leetcode.com/problems/subsets-ii/>

Trees :

Binary tree :

https://takeuforward.org/data-structure/strivers-tree-series-tree-data-structure/#point_1

<https://leetcode.com/problems/binary-tree-preorder-traversal/>

<https://leetcode.com/problems/binary-tree-inorder-traversal/>

<https://leetcode.com/problems/binary-tree-postorder-traversal/>

<https://www.geeksforgeeks.org/search-a-node-in-binary-tree/>

<https://www.geeksforgeeks.org/sum-nodes-binary-tree/>

<https://leetcode.com/problems/second-minimum-node-in-a-binary-tree/>

<https://www.geeksforgeeks.org/find-maximum-or-minimum-in-binary-tree/>

<https://leetcode.com/problems/maximum-depth-of-binary-tree/>

<https://leetcode.com/problems/balanced-binary-tree/>

<https://leetcode.com/problems/diameter-of-binary-tree/>

<https://leetcode.com/problems/same-tree/>

<https://leetcode.com/problems/symmetric-tree/>

<https://leetcode.com/problems/binary-tree-maximum-path-sum/>

<https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/>

<https://leetcode.com/problems/binary-tree-right-side-view/>

<https://www.geeksforgeeks.org/print-left-view-binary-tree/>

<https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/>

<https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/>

<https://leetcode.com/problems/construct-binary-tree-from-inorder-and-postorder-traversal/>

<https://leetcode.com/problems/binary-tree-level-order-traversal/>

<https://leetcode.com/problems/binary-tree-level-order-traversal-ii/>

<https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/>

Binary search tree :

<https://leetcode.com/problems/search-in-a-binary-search-tree/>

<https://practice.geeksforgeeks.org/problems/minimum-element-in-bst/1>

Maximum element in bst

<https://leetcode.com/problems/insert-into-a-binary-search-tree/>

<https://leetcode.com/problems/delete-node-in-a-bst/>

<https://leetcode.com/problems/range-sum-of-bst>

<https://leetcode.com/problems/increasing-order-search-tree>

<https://leetcode.com/problems/kth-smallest-element-in-a-bst/>

<https://leetcode.com/problems/validate-binary-search-tree/>

<https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-search-tree/>

<https://leetcode.com/problems/construct-binary-search-tree-from-preorder-traversal/>

<https://leetcode.com/problems/inorder-successor-in-bst/>

<https://leetcode.com/problems/two-sum-iv-input-is-a-bst/>

<https://leetcode.com/problems/balance-a-binary-search-tree>

Dynamic programming :

<https://leetcode.com/problems/climbing-stairs/>

<https://leetcode.com/problems/min-cost-climbing-stairs/>

<https://leetcode.com/problems/house-robber/>

<https://www.geeksforgeeks.org/0-1-knapsack-problem-dp-10/>

<https://leetcode.com/problems/coin-change/>

<https://leetcode.com/problems/coin-change-2/>

<https://leetcode.com/problems/unique-paths/>

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock/>

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/>

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/description/>

<https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iv/>

Binary Search :

<https://www.geeksforgeeks.org/binary-search/>

<https://leetcode.com/problems/binary-search/>

<https://leetcode.com/problems/search-insert-position/>

<https://leetcode.com/problems/search-a-2d-matrix/>

<https://leetcode.com/problems/sqrtx/>

<https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/>