



Course Link : <http://bit.ly/dsalevelup> Instructor : [Prateek Narang](#)  
Coding Minutes IDE : <http://ide.codingminutes.com>

## Practice Problems on Other Platforms

(Note : All course problems are not available outside)

### Section 2 : Array and Vectors

(i) Pair Sum ->

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

(ii) Triplets ->

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

(iii) Mountain ->

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

(iv) Longest Band->

<https://leetcode.com/problems/longest-consecutive-sequence/>

(v) Rains ->

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

(vi) Subarray sort->

<https://leetcode.com/problems/shortest-unsorted-continuous-subarray/>

(vii) Min Swaps ->

<https://practice.geeksforgeeks.org/problems/minimum-swaps/1>

(viii) Max Subarray->

<https://leetcode.com/problems/maximum-subarray/>

(ix) Activity Selection Problem ->

<https://leetcode.com/problems/minimum-number-of-arrows-to-burst-balloons/>

(X) Product Array ->

<https://leetcode.com/problems/product-of-array-except-self/>



### **Section 3 : String Problems**

(i) String Key Sort ->

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

(ii) Check Subsets ->

<https://leetcode.com/problems/is-subsequence/>

(iii) Sort Subsequences ->

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

(iv) Run Length Encoding ->

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

(v) Palindrome Break ->

<https://leetcode.com/problems/break-a-palindrome/>

(vi) String Normalisation->

<https://leetcode.com/problems/detect-capital/>

### **Section 4 : Sliding Window:**

(i) Unique Substring->

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

(ii) String Window ->

<https://leetcode.com/problems/minimum-window-substring/>

(iii) Sliding Window Max ->

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

(iv) Count subarrays with Target sum ->

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



## **Section 5 : Sorting and Searching:**

(i) Merge Sort ->

<https://leetcode.com/problems/sort-an-array/>

(ii) Quick Sort ->

<https://leetcode.com/problems/sort-an-array/>

(iii) Quick Select ->

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

(iv) Count Inversion ->

<https://practice.geeksforgeeks.org/problems/inversion-of-array-1587115620/1>

(v) Smallest String ->

<https://leetcode.com/problems/lexicographically-smallest-string-after-applying-operations/>

(vi) Staircase search ->

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

(vii) ICPC Standings ->

<https://www.spoj.com/problems/BAISED/>

(viii) Juggling Balls ->

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

(ix) Sorting subarray ->

<https://leetcode.com/problems/shortest-unsorted-continuous-subarray/>

## **Section 6 : Binary Search:**



(i) Search in Rotated sorted array->

<https://leetcode.com/problems/search-in-rotated-sorted-array/>

(ii) Square root ->

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

(iii) Angry Birds->

<https://leetcode.com/problems/magnetic-force-between-two-balls/>

## **Section 7 : Recursion:**

Permutations(similar)

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

Sudoku

<https://leetcode.com/problems/sudoku-solver/>

Modulo Exponentiation /Power

<https://leetcode.com/problems/powx-n/>

N-Queens

<https://leetcode.com/problems/n-queens/>

Game of coins/ Predict the winner

<https://leetcode.com/problems/predict-the-winner/>

Rat in a maze

<https://practice.geeksforgeeks.org/problems/rat-in-a-maze-problem/1>

Longest Path

<https://practice.geeksforgeeks.org/problems/longest-path-in-a-matrix3019/1>

## **Section 8 : Linked list**

Create/design

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



Middle Element

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

Kth last element

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

Detect cycle in Linked list

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

## **Section 9 : Stacks and Queue**

First non repeating character

<https://practice.geeksforgeeks.org/problems/first-non-repeating-character-in-a-stream1216/1>

Simplify Path

<https://leetcode.com/problems/simplify-path/>

Stock Span

<https://leetcode.com/problems/online-stock-span/>

## **Section 10 : Binary Trees:**

Nodes at distance k (similar)

<https://leetcode.com/problems/all-nodes-distance-k-in-binary-tree/>

Left View

<https://practice.geeksforgeeks.org/problems/left-view-of-binary-tree/1>

Siblings Swap/flip

<https://leetcode.com/problems/flip-equivalent-binary-trees/>



## **Section 11 : BST**

Search element

<https://practice.geeksforgeeks.org/problems/search-a-node-in-bst/1>

Is BST

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

Lowest common ancestor

<https://practice.geeksforgeeks.org/problems/lowest-common-ancestor-in-a-bst/1>

## **Section 12 Priority Queue**

Running Median

<https://leetcode.com/problems/find-median-from-data-stream/>

Merge k sorted arrays

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

## **Section 13 : Hashing**

Minimum Bars : (similar ques)

<https://leetcode.com/problems/word-break-ii/>

Group Anagrams :

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

Longest K sum subarray :

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

## **Section 14 : Tries :**

<https://leetcode.com/problems/maximum-xor-of-two-numbers-in-an-array/>

## **Section 15 : Graphs**

Snake and ladder game :

<https://leetcode.com/problems/snakes-and-ladders/>



Largest island :

<https://leetcode.com/problems/max-area-of-island/>

Astronaut Pairs :

<https://www.hackerrank.com/challenges/journey-to-the-moon/problem>

## **Section 16 : 1D DP**

Frog jump :

<https://leetcode.com/problems/jump-game-ii/>

## **Section 17 : 2D DP**

Coin change 2 :

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

Mixtures Spoj :

<https://www.spoj.com/problems/MIXTURES/>

Edit Distance :

<https://leetcode.com/problems/edit-distance/>

Wildcard Pattern :

<https://leetcode.com/problems/wildcard-matching/>

Palindrom Partitioning :

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