- 1 Count Digits
- 2 Reverse a Number
- 3 Check Palindrome
- 4 GCD Or HCF
- 5 Armstrong Numbers
- 6 Print all Divisors
- 7 Check for Prime
- 8 Understand recursion by print something N times
- 9 Print name N times using recursion
- 10 Print 1 to N using recursion
- 11 Print N to 1 using recursion
- 12 Sum of first N numbers
- 13 Factorial of N numbers
- 14 Reverse an array
- 15 Check if a string is palindrome or not
- 16 Fibonacci Number
- 17 Counting frequencies of array elements
- 18 Find the highest/lowest frequency element
- 19 Selection Sort
- 20 Bubble Sort
- 21 Insertion Sort
- 22 Merge Sort
- 23 Recursive Bubble Sort
- 24 Recursive Insertion Sort
- 25 Quick Sort
- 26 Largest Element in an Array
- 27 Second Largest Element in an Array without sorting
- 28 Check if the array is sorted
- 29 Remove duplicates from Sorted array
- 30 Left Rotate an array by one place
- 31 Left rotate an array by D places
- 32 Move Zeros to end
- 33 Linear Search
- 34 Find the Union and intersection of two sorted arrays
- 35 Find missing number in an array
- 36 Maximum Consecutive Ones
- 37 Subarray with given sum
- 38 Find the Missing Number
- 39 Find the number that appears once, and other numbers twice.
- 40 Search an element in a 2D matrix
- 41 Find the row with maximum number of 1's
- 42 2Sum Problem
- 43 Sort an array of 0's 1's and 2's
- 44 Majority Element (>n/2 times)
- 45 Kadane's Algorithm, maximum subarray sum
- 46 Print subarray with maximum subarray sum (extended version of above problem)

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- 47 Stock Buy and Sell
- 48 Rearrange the array in alternating positive and negative items
- 49 Next Permutation
- 50 Leaders in an Array problem
- 51 Longest Consecutive Sequence in an Array
- 52 Set Matrix Zeros
- 53 Rotate Matrix by 90 degrees
- 54 Print the matrix in spiral manner
- 55 Pascal's Triangle
- 56 Majority Element (n/3 times)
- 57 3-Sum Problem
- 58 4-Sum Problem
- 59 Largest Subarray with 0 Sum

- 60 Count number of subarrays with given xor K
- 61 Merge Overlapping Subintervals
- 62 Merge two sorted arrays without extra space
- 63 Find the repeating and missing number
- 64 Count Inversions
- 65 Reverse Pairs
- 66 Maximum Product Subarray
- 67 Binary Search to find X in sorted array
- 68 Implement Lower Bound
- 69 Implement Upper Bound
- 70 Search Insert Position
- 71 Check if Input array is sorted
- 72 Find the first or last occurrence of a given number in a sorted array
- 73 Count occurrences of a number in a sorted array with duplicates
- 74 Find peak element
- 75 Search in Rotated Sorted Array I
- 76 Search in Rotated Sorted Array II
- 77 Find minimum in Rotated Sorted Array
- 78 Single element in a Sorted Array
- 79 Find kth element of two sorted arrays
- 80 Find out how many times has an array been rotated
- 81 Search in a 2 D matrix
- 82 Find Peak Element
- 83 Matrix Median
- 84 Find square root of a number in log n
- 85 Find the Nth root of a number using binary search
- 86 Koko Eating Bananas
- 87 Minimum days to make M bouquets
- 88 Find the smallest Divisor
- 89 Capacity to Ship Packages within D Days
- 90 Median of two sorted arrays
- 91 Aggressive Cows
- 92 Book Allocation Problem
- 93 Split array Largest Sum
- 94 Kth Missing Positive Number
- 95 Minimize Max Distance to Gas Station
- 96 Median of 2 sorted arrays
- 97 Kth element of 2 sorted arrays
- 98 Remove outermost Paranthesis
- 99 Reverse words in a given string / Palindrome Check
- 100 Largest odd number in a string
- 101 Longest Common Prefix
- 102 Isomorphic String
- 103 check whether one string is a rotation of another
- 104 Check if two strings are anagram of each other
- 105 Sort Characters by frequency
- 106 Maximum Nesting Depth of Paranthesis
- 107 Roman Number to Integer and vice versa
- 108 Implement Atoi
- 109 Count Number of Substrings
- 110 Longest Palindromic Substring[Do it without DP]
- 111 Sum of Beauty of all substring
- 112 Reverse Every Word in A String
- 113 Introduction to LinkedList, learn about struct, and how is node represented
- 114 Inserting a node in LinkedList
- 115 Deleting a node in LinkedList
- 116 Find the length of the linkedlist [learn traversal]
- 117 Search an element in the LL
- 118 Introduction to DLL, learn about struct, and how is node represented
- 119 Insert a node in DLL

- 120 Delete a node in DLL
- 121 Reverse a DLL
- 122 Middle of a LinkedList [TortoiseHare Method]
- 123 Reverse a LinkedList [Iterative]
- 124 Reverse a LL [Recursive]
- 125 Detect a loop in LL
- 126 Find the starting point in LL
- 127 Length of Loop in LL
- 128 Check if LL is palindrome or not
- 129 Segrregate odd and even nodes in LL
- 130 Remove Nth node from the back of the LL
- 131 Delete the middle node of LL
- 132 Sort LL
- 133 Sort a LL of 0's 1's and 2's by changing links
- 134 Find the intersection point of Y LL
- 135 Add 1 to a number represented by LL
- 136 Add 2 numbers in LL
- 137 Delete all occurrences of a key in DLL
- 138 Find pairs with given sum in DLL
- 139 Remove duplicates from sorted DLL
- 140 Reverse LL in group of given size K
- 141 Rotate a LL
- 142 Flattening of LL
- 143 Clone a Linked List with random and next pointer
- 144 Recursive Implementation of atoi()
- 145 Pow(x, n)
- 146 Count Good numbers
- 147 Sort a stack using recursion
- 148 Reverse a stack using recursion
- 149 Generate all binary strings
- 150 Generate Paranthesis
- 151 Print all subsequences/Power Set
- 152 Learn All Patterns of Subsequences (Theory)
- 153 Count all subsequences with sum K
- 154 Check if there exists a subsequence with sum K
- 155 Combination Sum
- 156 Combination Sum-II
- 157 Subset Sum-I
- 158 Subset Sum-II
- 159 Combination Sum III
- 160 Letter Combinations of a Phone number
- 161 Palindrome Partitioning
- 162 Word Search
- 163 N Queen
- 164 Rat in a Maze
- 165 Word Break
- 166 M Coloring Problem
- 167 Sudoko Solver
- 168 Expression Add Operators
- 169 Introduction to Bit Manipulation [Theory]
- 170 Check if the i-th bit is set or not
- 171 Check if a number is odd or not
- 172 Check if a number is power of 2 or not
- 173 Count the number of set bits
- 174 Set/Unset the rightmost unset bit
- 175 Swap two numbers
- 176 Divide two integers without using multiplication, division and mod operator
- 177 Count number of bits to be flipped to convert A to B
- 178 Find the number that appears odd number of times
- 179 Power Set

- 180 Fnd xor of numbers from L to R
- 181 Find the two numbers appearing odd number of times
- 182 Print Prime Factors of a Number
- 183 All Divisors of a Number
- 184 Sieve of Eratosthenes
- 185 Find Prime Factorisation of a Number using Sieve
- 186 Power(n, x)
- 187 Implement Stack using Arrays
- 188 Implement Queue using Arrays
- 189 Implement Stack using Queue
- 190 Implement Queue using Stack
- 191 Implement stack using Linkedlist
- 192 Implement queue using Linkedlist
- 193 Check for balanced paranthesis
- 194 Implement Min Stack
- 195 Infix to Postfix Conversion using Stack
- 196 Prefix to Infix Conversion
- 197 Prefix to Postfix Conversion
- 198 Postfix to Prefix Conversion
- 199 Postfix to Infix
- 200 Convert Infix To Prefix Notation
- 201 Next Greater Element
- 202 Next Greater Element 2
- 203 Next Smaller Element
- 204 Number of NGEs to the right
- 205 Trapping Rainwater
- 206 Sum of subarray minimum
- 207 Stock span problem
- 208 Asteroid Collision
- 209 Sum of subarray ranges
- 210 Remove k Digits
- 211 Largest rectangle in a histogram
- 212 Maximal Rectangles
- 213 Sliding Window maximum
- 214 Stock Span Problem
- 215 The Celebrity Problem
- 216 Rotten Oranges
- 217 LRU cache (IMPORTANT)
- 218 LFU cache
- 219 Longest Substring Without Repeating Characters
- 220 Max Consecutive Ones III
- 221 Fruit Into Baskets
- 222 longest repeating character replacement
- 223 Binary subarray with sum
- 224 Count number of nice subarrays
- 225 Number of substring containing all three characters
- 226 Maximum point you can obtain from cards
- 227 Longest Substring with At Most K Distinct Characters
- 228 Subarray with k different integers
- 229 Minimum Window Substring
- 230 Minimum Window Subsequence
- 231 Problem 2
- 232 Introduction to Priority Queues using Binary Heaps
- 233 Min Heap and Max Heap Implementation
- 234 Check if an array represents a min-heap or not
- 235 Convert min Heap to max Heap
- 236 Kth largest element in an array [use priority queue]
- 237 Kth smallest element in an array [use priority queue]
- 238 Sort K sorted array
- 239 Merge M sorted Lists

240 Replace each array element by its corresponding rank

- 241 Task Scheduler
- 242 Hands of Straights
- 243 Design twitter
- 244 Connect `n` ropes with minimal cost
- 245 Kth largest element in a stream of running integers
- 246 Maximum Sum Combination
- 247 Find Median from Data Stream
- 248 K most frequent elements
- 249 Assign Cookies
- 250 Fractional Knapsack Problem
- 251 Greedy algorithm to find minimum number of coins
- 252 Lemonade Change
- 253 Valid Paranthesis Checker
- 254 N meetings in one room
- 255 Jump Game
- 256 Jump Game 2
- 257 Minimum number of platforms required for a railway
- 258 Job sequencing Problem
- 259 Candy
- 260 Program for Shortest Job First (or SJF) CPU Scheduling
- 261 Program for Least Recently Used (LRU) Page Replacement Algorithm
- 262 Insert Interval
- 263 Merge Intervals
- 264 Non-overlapping Intervals
- 265 Introduction to Trees
- 266 Binary Tree Representation in C++
- 267 Binary Tree Representation in Java
- 268 Binary Tree Traversals in Binary Tree
- 269 Preorder Traversal of Binary Tree
- 270 Inorder Traversal of Binary Tree
- 271 Post-order Traversal of Binary Tree
- 272 Level order Traversal / Level order traversal in spiral form
- 273 Iterative Preorder Traversal of Binary Tree
- 274 Iterative Inorder Traversal of Binary Tree
- 275 Post-order Traversal of Binary Tree using 2 stack
- 276 Post-order Traversal of Binary Tree using 1 stack
- 277 Preorder, Inorder, and Postorder Traversal in one Traversal
- 278 Height of a Binary Tree
- 279 Check if the Binary tree is height-balanced or not
- 280 Diameter of Binary Tree
- 281 Maximum path sum
- 282 Check if two trees are identical or not
- 283 Zig Zag Traversal of Binary Tree
- 284 Boundary Traversal of Binary Tree
- 285 Vertical Order Traversal of Binary Tree
- 286 Top View of Binary Tree
- 287 Bottom View of Binary Tree
- 288 Right/Left View of Binary Tree
- 289 Symmetric Binary Tree
- 290 Root to Node Path in Binary Tree
- 291 LCA in Binary Tree
- 292 Maximum width of a Binary Tree
- 293 Check for Children Sum Property
- 294 Print all the Nodes at a distance of K in a Binary Tree
- 295 Minimum time taken to BURN the Binary Tree from a Node
- 296 Count total Nodes in a COMPLETE Binary Tree
- 297 Requirements needed to construct a Unique Binary Tree | Theory
- 298 Link
- 299 Construct Binary Tree from inorder and preorder

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operations with array elements

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359 Floyd Warshal Algorithm
360 Find the city with the smallest number of neighbors in a threshold distance
361 Minimum Spanning Tree
362 Prim's Algorithm
363 Disjoint Set [Union by Rank]
364 Disjoint Set [Union by Size]
365 Kruskal's Algorithm
366 Number of operations to make network connected
367 Most stones removed with same rows or columns
368 Accounts merge
369 Number of island II
370 Making a Large Island
371 Swim in rising water
372 [HARD]
373 Bridges in Graph
374 Articulation Point
375 Kosaraju's Algorithm
376 Dynamic Programming Introduction
377 Climbing Stars
378 Frog Jump(DP-3)
379 Frog Jump with k distances(DP-4)
380 Maximum sum of non-adjacent elements (DP 5)
381 House Robber (DP 6)
382 Ninja's Training (DP 7)
383 Grid Unique Paths : DP on Grids (DP8)
384 Grid Unique Paths 2 (DP 9)
385 Minimum path sum in Grid (DP 10)
386 Minimum path sum in Triangular Grid (DP 11)
387 Minimum/Maximum Falling Path Sum (DP-12)
388 3-d DP : Ninja and his friends (DP-13)
389 Subset sum equal to target (DP- 14)
390 Partition Equal Subset Sum (DP- 15)
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392 Count Subsets with Sum K (DP - 17)
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400 Longest Common Subsequence | (DP - 25)
401 Print Longest Common Subsequence | (DP - 26)
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404 Minimum insertions to make string palindrome | DP-29
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407 Distinct Subsequences | (DP-32)
408 Edit Distance | (DP-33)
409 Wildcard Matching | (DP-34)
410 Best Time to Buy and Sell Stock (DP-35)
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412 Buy and Sell Stocks III (DP-37)
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414 Buy and Sell Stocks With Cooldown (DP-39)
415 Buy and Sell Stocks With Transaction Fee (DP-40)
416 Longest Increasing Subsequence (DP-41)
417 Printing Longest Increasing Subsequence (DP-42)
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420 Longest String Chain (DP-45)
421 Longest Bitonic Subsequence | (DP-46)
422 Number of Longest Increasing Subsequences (DP-47)
423 Matrix Chain Multiplication (DP-48)
424 Matrix Chain Multiplication | Bottom-Up (DP-49)
425 Minimum Cost to Cut the Stick (DP-50)
426 Burst Balloons (DP-51)
427 Evaluate Boolean Expression to True (DP-52)
428 Palindrome Partitioning - II (DP-53)
429 Partition Array for Maximum Sum (DP-54)
430 Maximum Rectangle Area with all 1's (DP-55)
431 Count Square Submatrices with All Ones (DP-56)
432 Implement TRIE | INSERT | SEARCH | STARTSWITH
433 Implement Trie - 2 (Prefix Tree)
434 Longest String with All Prefixes
435 Number of Distinct Substrings in a String
436 Bit PreRequisites for TRIE Problems
437 Maximum XOR of two numbers in an array
438 Maximum XOR With an Element From Array
439 Minimum number of bracket reversals needed to make an expression balanced
440 Count and say
441 Hashing In Strings | Theory
442 Rabin Karp
443 Z-Function
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444 KMP algo / LPS(pi) array

445 Shortest Palindrome

446 Longest happy prefix

447 Count palindromic subsequence in given string

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