Topic:	Problem:		
Arroy	Deverse the error		
Array	Reverse the array		
Array	Find the maximum and minimum element in an array		
Array	Find the "Kth" max and min element of an array		
Array	Given an array which consists of only 0, 1 and 2. Sort the array without using any sorting algo		
Array	Move all the negative elements to one side of the array		
Array	Find the Union and Intersection of the two sorted arrays.		
Array	Write a program to cyclically rotate an array by one.		
Array	find Largest sum contiguous Subarray [V. IMP]		
Array	Minimise the maximum difference between heights [V.IMP]		
Array	Minimum no. of Jumps to reach end of an array		
Array	find duplicate in an array of N+1 Integers		
Array	Merge 2 sorted arrays without using Extra space.		
Array	Kadane's Algo [V.V.V.V IMP]		
Array	Merge Intervals		
Array	Next Permutation		
Array	Count Inversion		
Array	Best time to buy and Sell stock		
Array	find all pairs on integer array whose sum is equal to given number		
Array	find common elements In 3 sorted arrays		
Array	Rearrange the array in alternating positive and negative items with O(1) extra space		
Array	Find if there is any subarray with sum equal to 0		
Array	Find factorial of a large number		
Array	find maximum product subarray		
Array	Find longest coinsecutive subsequence		
Array	Given an array of size n and a number k, fin all elements that appear more than " n/k " times.		
Array	Maximum profit by buying and selling a share atmost twice		
Array	Find whether an array is a subset of another array		
Array	Find the triplet that sum to a given value		

Trapping Rain water problem			
Chocolate Distribution problem			
Smallest Subarray with sum greater than a given value			
Three way partitioning of an array around a given value			
Minimum swaps required bring elements less equal K together			
Minimum no. of operations required to make an array palindrome			
Median of 2 sorted arrays of equal size			
Median of 2 sorted arrays of different size			
Spiral traversal on a Matrix			
Search an element in a matriix			
Find median in a row wise sorted matrix			
Find row with maximum no. of 1's			
Print elements in sorted order using row-column wise sorted matrix			
Maximum size rectangle			
Find a specific pair in matrix			
Rotate matrix by 90 degrees			
Kth smallest element in a row-cpumn wise sorted matrix			
Common elements in all rows of a given matrix			
Reverse a String			
Check whether a String is Palindrome or not			
Find Duplicate characters in a string			
Why strings are immutable in Java?			
Write a Code to check whether one string is a rotation of another			
Write a Program to check whether a string is a valid shuffle of two strings or not			
Count and Say problem			
Write a program to find the longest Palindrome in a string.[Longest palindromic Substring]			

String	Find Longest Recurring Subsequence in String
String	Print all Subsequences of a string.
String	Print all the permutations of the given string
String	Split the Binary string into two substring with equal 0's and 1's
String	Word Wrap Problem [VERY IMP].
String	EDIT Distance [Very Imp]
String	Find next greater number with same set of digits. [Very Very IMP]
String	Balanced Parenthesis problem.[Imp]
String	Word break Problem[Very Imp]
String	Rabin Karp Algo
String	KMP Algo
String	Convert a Sentence into its equivalent mobile numeric keypad sequence.
String	Minimum number of bracket reversals needed to make an expression balanced.
String	Count All Palindromic Subsequence in a given String.
String	Count of number of given string in 2D character array
String	Search a Word in a 2D Grid of characters.
String	Boyer Moore Algorithm for Pattern Searching.
String	Converting Roman Numerals to Decimal
String	Longest Common Prefix
String	Number of flips to make binary string alternate
String	Find the first repeated word in string.
String	Minimum number of swaps for bracket balancing.
String	Find the longest common subsequence between two strings.
String	Program to generate all possible valid IP addresses from given string.
String	Write a program tofind the smallest window that contains all characters of string itself.
String	Rearrange characters in a string such that no two adjacent are same
String	Minimum characters to be added at front to make string palindrome
String	Given a sequence of words, print all anagrams together
String	Find the smallest window in a string containing all characters of another string
String	Recursively remove all adjacent duplicates

String	String matching where one string contains wildcard characters
String	Function to find Number of customers who could not get a computer
String	Transform One String to Another using Minimum Number of Given Operation
String	Check if two given strings are isomorphic to each other
String	Recursively print all sentences that can be formed from list of word lists
Searching & Sorting	Find first and last positions of an element in a sorted array
Searching & Sorting	Find a Fixed Point (Value equal to index) in a given array
Searching & Sorting	Search in a rotated sorted array
Searching & Sorting	square root of an integer
Searching & Sorting	Maximum and minimum of an array using minimum number of comparisons
Searching & Sorting	Optimum location of point to minimize total distance
Searching & Sorting	Find the repeating and the missing
Searching & Sorting	find majority element
Searching & Sorting	Searching in an array where adjacent differ by at most k
Searching & Sorting	find a pair with a given difference
Searching & Sorting	find four elements that sum to a given value
Searching & Sorting	maximum sum such that no 2 elements are adjacent
Searching & Sorting	Count triplet with sum smaller than a given value
Searching & Sorting	merge 2 sorted arrays
Searching & Sorting	print all subarrays with 0 sum
Searching & Sorting	Product array Puzzle
Searching & Sorting	Sort array according to count of set bits
Searching & Sorting	minimum no. of swaps required to sort the array
Searching & Sorting	Bishu and Soldiers
Searching & Sorting	Rasta and Kheshtak
Searching & Sorting	Kth smallest number again
Searching & Sorting	Find pivot element in a sorted array
Searching & Sorting	K-th Element of Two Sorted Arrays

Searching & Sorting	Aggressive cows
Searching & Sorting	Book Allocation Problem
Searching & Sorting	EKOSPOJ:
Searching & Sorting	Job Scheduling Algo
Searching & Sorting	Missing Number in AP
Searching & Sorting	Smallest number with atleastn trailing zeroes infactorial
Searching & Sorting	Painters Partition Problem:
Searching & Sorting	ROTI-Prata SPOJ
Searching & Sorting	DoubleHelix SPOJ
Searching & Sorting	Subset Sums
Searching & Sorting	Findthe inversion count
Searching & Sorting	Implement Merge-sort in-place
Searching & Sorting	Partitioning and Sorting Arrays with Many Repeated Entries
LinkedList	Write a Program to reverse the Linked List. (Both Iterative and recursive)
LinkedList	Reverse a Linked List in group of Given Size. [Very Imp]
LinkedList	Write a program to Detect loop in a linked list.
LinkedList	Write a program to Delete loop in a linked list.
LinkedList	Find the starting point of the loop.
LinkedList	Remove Duplicates in a sorted Linked List.
LinkedList	Remove Duplicates in a Un-sorted Linked List.
LinkedList	Write a Program to Move the last element to Front in a Linked List.
LinkedList	Add "1" to a number represented as a Linked List.
LinkedList	Add two numbers represented by linked lists.
LinkedList	Intersection of two Sorted Linked List.
LinkedList	Intersection Point of two Linked Lists.
LinkedList	Merge Sort For Linked lists.[Very Important]
LinkedList	Quicksort for Linked Lists.[Very Important]
LinkedList	Find the middle Element of a linked list.

LinkedList	Check if a linked list is a circular linked list.		
LinkedList	Split a Circular linked list into two halves.		
LinkedList	Write a Program to check whether the Singly Linked list is a palindrome or not.		
LinkedList	Deletion from a Circular Linked List.		
LinkedList	Reverse a Doubly Linked list.		
LinkedList	Find pairs with a given sum in a DLL.		
LinkedList	Count triplets in a sorted DLL whose sum is equal to given value "X".		
LinkedList	Sort a "k"sorted Doubly Linked list.[Very IMP]		
LinkedList	Rotate DoublyLinked list by N nodes.		
LinkedList	Rotate a Doubly Linked list in group of Given Size.[Very IMP]		
LinkedList	Can we reverse a linked list in less than O(n)?		
LinkedList	Why Quicksort is preferred for. Arrays and Merge Sort for LinkedLists?		
LinkedList	Flatten a Linked List		
LinkedList	Sort a LL of 0's, 1's and 2's		
LinkedList	Clone a linked list with next and random pointer		
LinkedList	Merge K sorted Linked list		
LinkedList	Multiply 2 no. represented by LL		
LinkedList	Delete nodes which have a greater value on right side		
LinkedList	Segregate even and odd nodes in a Linked List		
LinkedList	Program for n'th node from the end of a Linked List		
LinkedList	Find the first non-repeating character from a stream of characters		
Binary Trees	level order traversal		
Binary Trees	Reverse Level Order traversal		
Binary Trees	Height of a tree		
Binary Trees	Diameter of a tree		
Binary Trees	Mirror of a tree		
Binary Trees	Inorder Traversal of a tree both using recursion and Iteration		
Binary Trees	Preorder Traversal of a tree both using recursion and Iteration		

Binary Trees Binary Trees Right View of Tree Right View of a balancy tree Right View of a tree Right View of a Binary tree on to the standard of the content of the standard of the standard of the standard of	Binary Trees	Postorder Traversal of a tree both using recursion and Iteration	
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Binary Trees Kth Ancestor of node in a Binary tree Binary Trees Find all Duplicate subtrees in a Binary tree [IMP]	Binary Trees	Find LCA in a Binary tree	
Binary Trees Find all Duplicate subtrees in a Binary tree [IMP]	Binary Trees	Find distance between 2 nodes in a Binary tree	
	Binary Trees	Kth Ancestor of node in a Binary tree	
Binary Trees Tree Isomorphism Problem	Binary Trees	Find all Duplicate subtrees in a Binary tree [IMP]	
, ,	Binary Trees	Tree Isomorphism Problem	

Binary Search Trees	Fina a value in a BST	
Binary Search Trees	Deletion of a node in a BST	
Binary Search Trees	Find min and max value in a BST	
Binary Search Trees	Find inorder successor and inorder predecessor in a BST	
Binary Search Trees	Check if a tree is a BST or not	
Binary Search Trees	Populate Inorder successor of all nodes	
Binary Search Trees	Find LCA of 2 nodes in a BST	
Binary Search Trees	Construct BST from preorder traversal	
Binary Search Trees	Convert Binary tree into BST	
Binary Search Trees	Convert a normal BST into a Balanced BST	
Binary Search Trees	Merge two BST [V.V.V>IMP]	
Binary Search Trees	Find Kth largest element in a BST	
Binary Search Trees	Find Kth smallest element in a BST	
Binary Search Trees	Count pairs from 2 BST whose sum is equal to given value "X"	
Binary Search Trees	Find the median of BST in O(n) time and O(1) space	
Binary Search Trees	Count BST ndoes that lie in a given range	
Binary Search Trees	Replace every element with the least greater element on its right	
Binary Search Trees	Given "n" appointments, find the conflicting appointments	
Binary Search Trees	Check preorder is valid or not	
Binary Search Trees	Check whether BST contains Dead end	
Binary Search Trees	Largest BST in a Binary Tree [V.V.V.V IMP]	
Binary Search Trees	Flatten BST to sorted list	
Greedy	Activity Selection Problem	
Greedy	Job SequencingProblem	
Greedy	Huffman Coding	
Greedy	Water Connection Problem	
Greedy	Fractional Knapsack Problem	
Greedy	Greedy Algorithm to find Minimum number of Coins	

Greedy	Maximum trains for which stoppage can be provided			
Greedy	Minimum Platforms Problem			
Greedy	Buy Maximum Stocks if i stocks can be bought on i-th day			
Greedy	Find the minimum and maximum amount to buy all N candies			
Greedy	Minimize Cash Flow among a given set of friends who have borrowed money from each other			
Greedy	Minimum Cost to cut a board into squares			
Greedy	Check if it is possible to survive on Island			
Greedy	Find maximum meetings in one room			
Greedy	Maximum product subset of an array			
Greedy	Maximize array sum after K negations			
Greedy	Maximize the sum of arr[i]*i			
Greedy	Maximum sum of absolute difference of an array			
Greedy	Maximize sum of consecutive differences in a circular array			
Greedy	Minimum sum of absolute difference of pairs of two arrays			
Greedy	Program for Shortest Job First (or SJF) CPU Scheduling			
Greedy	Program for Least Recently Used (LRU) Page Replacement algorithm			
Greedy	Smallest subset with sum greater than all other elements			
Greedy	Chocolate Distribution Problem			
Greedy	DEFKIN -Defense of a Kingdom			
Greedy	DIEHARD -DIE HARD			
Greedy	GERGOVIA -Wine trading in Gergovia			
Greedy	Picking Up Chicks			
Greedy	CHOCOLA -Chocolate			
Greedy	ARRANGE -Arranging Amplifiers			
Greedy	K Centers Problem			
Greedy	Minimum Cost of ropes			
Greedy	Find smallest number with given number of digits and sum of digits			
Greedy	Rearrange characters in a string such that no two adjacent are same			
Greedy	Find maximum sum possible equal sum of three stacks			

BackTracking	Rat in a maze Problem				
BackTracking	Printing all solutions in N-Queen Pro	blem			
BackTracking	Word Break Problem using Backtrac	king			
BackTracking	Remove Invalid Parentheses				
BackTracking	Sudoku Solver				
BackTracking	m Coloring Problem				
BackTracking	Print all palindromic partitions of a st	tring			
BackTracking	Subset Sum Problem				
BackTracking	The Knight's tour problem				
BackTracking	Tug of War				
BackTracking	Find shortest safe route in a path wi	th landmines			
BackTracking	Combinational Sum				
BackTracking	Find Maximum number possible by	doing at-most K	swaps		
BackTracking	Print all permutations of a string				
BackTracking	Find if there is a path of more than k	length from a so	ource		
BackTracking	Longest Possible Route in a Matrix	with Hurdles			
BackTracking	Print all possible paths from top left	to bottom right o	f a mXn matrix		
BackTracking	Partition of a set intoK subsets with	equal sum			
BackTracking	Find the K-th Permutation Sequence	of first N natura	Il numbers		
Stacks & Queues	Implement Stack from Scratch				
Stacks & Queues	Implement Queue from Scratch				
Stacks & Queues	Implement 2 stack in an array				
Stacks & Queues	find the middle element of a stack				
Stacks & Queues	Implement "N" stacks in an Array				
Stacks & Queues	Check the expression has valid or B	alanced parenth	esis or not.		
Stacks & Queues	Reverse a String using Stack				
Stacks & Queues	Design a Stack that supports getMin	ı() in O(1) time a	nd O(1) extra spa	ice.	

Stacks & Queues	Find the next Greater element
Stacks & Queues	The celebrity Problem
Stacks & Queues	Arithmetic Expression evaluation
Stacks & Queues	Evaluation of Postfix expression
Stacks & Queues	Implement a method to insert an element at its bottom without using any other data structure.
Stacks & Queues	Reverse a stack using recursion
Stacks & Queues	Sort a Stack using recursion
Stacks & Queues	Merge Overlapping Intervals
Stacks & Queues	Largest rectangular Area in Histogram
Stacks & Queues	Length of the Longest Valid Substring
Stacks & Queues	Expression contains redundant bracket or not
Stacks & Queues	Implement Stack using Queue
Stacks & Queues	Implement Stack using Deque
Stacks & Queues	Stack Permutations (Check if an array is stack permutation of other)
Stacks & Queues	Implement Queue using Stack
Stacks & Queues	Implement "n" queue in an array
Stacks & Queues	Implement a Circular queue
Stacks & Queues	LRU Cache Implementationa
Stacks & Queues	Reverse a Queue using recursion
Stacks & Queues	Reverse the first "K" elements of a queue
Stacks & Queues	Interleave the first half of the queue with second half
Stacks & Queues	Find the first circular tour that visits all Petrol Pumps
Stacks & Queues	Minimum time required to rot all oranges
Stacks & Queues	Distance of nearest cell having 1 in a binary matrix
Stacks & Queues	First negative integer in every window of size "k"
Stacks & Queues	Check if all levels of two trees are anagrams or not.
Stacks & Queues	Sum of minimum and maximum elements of all subarrays of size "k".
Stacks & Queues	Minimum sum of squares of character counts in a given string after removing "k" characters.
Stacks & Queues	Queue based approach or first non-repeating character in a stream.
Stacks & Queues	Next Smaller Element

Heap	Implement a Maxheap/MinHeap using arrays and recursion.			
Heap	Sort an Array using heap. (HeapSort)			
Heap	Maximum of all subarrays of size k.			
Неар	"k" largest element in an array			
Неар	Kth smallest and largest element in an unsorted array			
Неар	Merge "K" sorted arrays. [IMP]			
Неар	Merge 2 Binary Max Heaps			
Неар	Kth largest sum continuous subarrays			
Неар	Leetcode- reorganize strings			
Неар	Merge "K" Sorted Linked Lists [V.IMP]			
Неар	Smallest range in "K" Lists			
Неар	Median in a stream of Integers			
Неар	Check if a Binary Tree is Heap			
Неар	Connect "n" ropes with minimum cost			
Неар	Convert BST to Min Heap			
Неар	Convert min heap to max heap			
Неар	Rearrange characters in a string such that no two adjacent are same.			
Неар	Minimum sum of two numbers formed from digits of an array			
Graph	Create a Graph, print it			
Graph	Implement BFS algorithm			
Graph	Implement DFS Algo			
Graph	Detect Cycle in Directed Graph using BFS/DFS Algo			
Graph	Detect Cycle in UnDirected Graph using BFS/DFS Algo			
Graph	Search in a Maze			
Graph	Minimum Step by Knight			
Graph	flood fill algo			

Graph	Clone a graph				
Graph	Making wired Connections				
Graph	word Ladder				
Graph	Dijkstra algo				
Graph	Implement Topological Sort				
Graph	Minimum time taken by each job to be completed given by a Directed Acyclic Graph				
Graph	Find whether it is possible to finish all tasks or not from given dependencies				
Graph	Find the no. of Isalnds				
Graph	Given a sorted Dictionary of an Alien Language, find order of characters				
Graph	Implement Kruksal'sAlgorithm				
Graph	Implement Prim's Algorithm				
Graph	Total no. of Spanning tree in a graph				
Graph	Implement Bellman Ford Algorithm				
Graph	Implement Floyd warshallAlgorithm				
Graph	Travelling Salesman Problem				
Graph	Graph ColouringProblem				
Graph	Snake and Ladders Problem				
Graph	Find bridge in a graph				
Graph	Count Strongly connected Components(Kosaraju Algo)				
Graph	Check whether a graph is Bipartite or Not				
Graph	Detect Negative cycle in a graph				
Graph	Longest path in a Directed Acyclic Graph				
Graph	Journey to the Moon				
Graph	Cheapest Flights Within K Stops				
Graph	Oliver and the Game				
Graph	Water Jug problem using BFS				
Graph	Water Jug problem using BFS				
Graph	Find if there is a path of more thank length from a source				
Graph	M-ColouringProblem				
Graph	Minimum edges to reverse o make pat	h from source t	o destination		

Graph	Paths to travel each nodes using	ng each edge(Seve	en Bridges)		
Graph	Vertex Cover Problem				
Graph	Chinese Postman or Route Inspection				
Graph	Number of Triangles in a Directed and Undirected Graph				
Graph	Minimise the cashflow among a given set of friends who have borrowed money from each other				
Graph	Two Clique Problem				
Trie	Construct a trie from scratch				
Trie	Find shortest unique prefix for every word in a given list				
Trie	Word Break Problem (Trie solution)				
Trie	Given a sequence of words, pr	Given a sequence of words, print all anagrams together			
Trie	Implement a Phone Directory				
Trie	Print unique rows in a given boolean matrix				
Dynamic Programming	Coin ChangeProblem				
Dynamic Programming	Knapsack Problem				
Dynamic Programming	Binomial CoefficientProblem				
Dynamic Programming	Permutation CoefficientProbler	n			
Dynamic Programming	Program for nth Catalan Numb	er			
Dynamic Programming	Matrix Chain Multiplication				
Dynamic Programming	Edit Distance				
Dynamic Programming	Subset Sum Problem				
Dynamic Programming	Friends Pairing Problem				
Dynamic Programming	Gold Mine Problem				
Dynamic Programming	Assembly Line SchedulingProb	olem			
Dynamic Programming	Painting the Fenceproblem				
Dynamic Programming	Maximize The Cut Segments				
Dynamic Programming	Longest Common Subsequence	ce			

Dynamic Programming	Longest Repeated Subsequence	
Dynamic Programming	Longest Increasing Subsequence	
Dynamic Programming	Space Optimized Solution of LCS	
Dynamic Programming	LCS (Longest Common Subsequence) of three strings	
Dynamic Programming	Maximum Sum Increasing Subsequence	
Dynamic Programming	Count all subsequences having product less than K	
Dynamic Programming	Longest subsequence such that difference between adjacent is one	
Dynamic Programming	Maximum subsequence sum such that no three are consecutive	
Dynamic Programming	Egg Dropping Problem	
Dynamic Programming	Maximum Length Chain of Pairs	
Dynamic Programming	Maximum size square sub-matrix with all 1s	
Dynamic Programming	Maximum sum of pairs with specific difference	
Dynamic Programming	Min Cost PathProblem	
Dynamic Programming	Maximum difference of zeros and ones in binary string	
Dynamic Programming	Minimum number of jumps to reach end	
Dynamic Programming	Minimum cost to fill given weight in a bag	
Dynamic Programming	Minimum removals from array to make max –min <= K	
Dynamic Programming	Longest Common Substring	
Dynamic Programming	Count number of ways to reacha given score in a game	
Dynamic Programming	Count Balanced Binary Trees of Height h	
Dynamic Programming	LargestSum Contiguous Subarray [V>V>V IMP]	
Dynamic Programming	Smallest sum contiguous subarray	
Dynamic Programming	Unbounded Knapsack (Repetition of items allowed)	
Dynamic Programming	Word Break Problem	
Dynamic Programming	Largest Independent Set Problem	
Dynamic Programming	Partition problem	
Dynamic Programming	Longest Palindromic Subsequence	
Dynamic Programming	Count All Palindromic Subsequence in a given String	
Dynamic Programming	Longest Palindromic Substring	
Dynamic Programming	Longest alternating subsequence	

Dynamic Programming	Weighted Job Scheduling				
Dynamic Programming	Coin game winner where every player has three choices				
Dynamic Programming	Count Derangements (Permutation such that no element appears in its original position) [IMPORTANT]				
Dynamic Programming	Maximum profit by buying and selling a share at most twice [IMP]				
Dynamic Programming	Optimal Strategy for a Game				
Dynamic Programming	Optimal Binary Search Tree				
Dynamic Programming	Palindrome PartitioningProblem				
Dynamic Programming	Word Wrap Problem				
Dynamic Programming	Mobile Numeric Keypad Problem [IMP]				
Dynamic Programming	Boolean Parenthesization Problem				
Dynamic Programming	Largest rectangular sub-matrix whose sum is 0				
Dynamic Programming	Largest area rectangular sub-matrix with equal number of 1's and 0's [IMP]				
Dynamic Programming	Maximum sum rectangle in a 2D matrix				
Dynamic Programming	Maximum profit by buying and selling a share at most k times				
Dynamic Programming	Find if a string is interleaved of two other strings				
Dynamic Programming	Maximum Length of Pair Chain				
Bit Manipulation	Count set bits in an integer				
Bit Manipulation	Find the two non-repeating elements in an array of repeating elements				
Bit Manipulation	Count number of bits to be flipped to convert A to B				
Bit Manipulation	Count total set bits in all numbers from 1 to n				
Bit Manipulation	Program to find whether a no is power of two				
Bit Manipulation	Find position of the only set bit				
Bit Manipulation	Copy set bits in a range				
Bit Manipulation	Divide two integers without using multiplication, division and mod operator				
Bit Manipulation	Calculate square of a number without using *, / and pow()				
Bit Manipulation	Power Set				