Data Structures

Topics:

1. Linked List
2. Stack
3. Queue
4. Binary Tree
5. Binary Search Tree
6. Heap
7. Hashing
8. Graph
9. Advanced Data Structure
10. Array
11. Matrix
12. Misc

Linked List:

Singly Linked List:

1. Introduction to Linked List
2. Linked List vs Array
3. Linked List Insertion
4. Linked List Deletion
5. A Programmer's approach of looking at Array vs. Linked List
6. Find Length of a Linked List (Iterative and Recursive)
7. Search an element in a Linked List (Iterative and Recursive)
8. How to write C functions that modify head pointer of a Linked List?
9. Write a function to get Nth node in a Linked List
10. Given only a pointer to a node to be deleted in a singly linked list, how do you delete it?
11. Print the middle of a given linked list
12. Nth node from the end of a Linked List
13. Write a function to delete a Linked List
14. Write a function that counts the number of times a given int occurs in a Linked List
15. Reverse a linked list
16. Detect loop in a linked list
17. Function to check if a singly linked list is palindrome
18. Given a linked list which is sorted, how will you insert in sorted way
19. Intersection point of two Linked Lists.
20. Recursive function to print reverse of a Linked List
21. Remove duplicates from a sorted linked list
22. Remove duplicates from an unsorted linked list
23. Pairwise swap elements of a given linked list
24. Practice questions for Linked List and Recursion
25. Move last element to front of a given Linked List

26 26 Intersection of two Sorted Linked Lists
27 27 Delete alternate nodes of a Linked List
28 28 Alternating split of a given Singly Linked List
29 29 Merge two sorted linked lists
30 30 Identical Linked Lists
31 31 Merge Sort for Linked Lists
32 32 Reverse a Linked List in groups of given size
33 33 Reverse alternate K nodes in a Singly Linked List
34 34 Delete nodes which have a greater value on right side
35 35 Segregate even and odd nodes in a Linked List
36 36 Detect and Remove Loop in a Linked List
37 37 Add two numbers represented by linked lists | Set 1
38 38 Delete a given node in Linked List under given constraints
39 39 Union and Intersection of two Linked Lists
40 40 Find a triplet from three linked lists with sum equal to a given number
41 41 Rotate a Linked List
42 42 Flattening a Linked List
43 43 Add two numbers represented by linked lists | Set 2
44 44 Sort a linked list of 0s, 1s and 2s
45 45 Flatten a multilevel linked list
46 46 Delete N nodes after M nodes of a linked list
47 47 QuickSort on Singly Linked List
48 48 Merge a linked list into another linked list at alternate positions
49 49 Pairwise swap elements of a given linked list by changing links
50 50 Given a linked list of line segments, remove middle points
51 51 Construct a Maximum Sum Linked List out of two Sorted Linked Lists having some Commo
52 52 Can we reverse a linked list in less than O(n)?
53 53 Clone a linked list with next and random pointer | Set 2
54 54 Insertion Sort for Singly Linked List
55 55 Point to next higher value node in a linked list with an arbitrary pointer

Circular Linked List:

55 1 Circular Linked List Introduction and Applications,
56 2 Circular Linked List Traversal
57 3 Split a Circular Linked List into two halves
58 4 Sorted insert for circular linked list

Doubly Linked List:

59 1 Doubly Linked List Introduction and Insertion
60 2 Delete a node in a Doubly Linked List
61 3 Reverse a Doubly Linked List
62 4 The Great Tree-List Recursion Problem.
63 5 Copy a linked list with next and arbit pointer
64 6 QuickSort on Doubly Linked List
65 7 Swap Kth node from beginning with Kth node from end in a Linked List

Quiz on Linked List

Stack:

1. Introduction to Stack
2. Infix to Postfix Conversion using Stack
3. Evaluation of Postfix Expression
4. Reverse a Sting using Stack
5. Implement two stacks in an array
6. Check for balanced parentheses in an expression
7. Next Greater Element
8. Reverse a stack using recursion
9. The Stock Span Problem
10. Design and Implement Special Stack Data Structure
11. Implement Stack using Queues
12. Design a stack with operations on middle element
13. How to create mergable stack?
14. How to efficiently implement k stacks in a single array?
15. Iterative Tower of Hanoi

Quiz on Stack

Queue:

1. Queue Introduction and Array Implementation
2. Linked List Implementation of Queue
3. Applications of Queue Data Structure
4. Priority Queue Introduction
5. Deque (Introduction and Applications)
6. Implement Queue using Stacks
7. Check whether a given Binary Tree is Complete or not
8. Find the largest multiple of 3
9. Find the first circular tour that visits all petrol pumps
10. Maximum of all subarrays of size k
11. An I nteresting Method to Generate Binary Numbers from 1 to n
12. How to efficiently implement k Queues in a single array?

Quiz on Queue

Binary Tree:

1. Binary Tree Introduction
2. Handshaking Lemma and Interesting Tree Properties
3. Binary Tree Properties
4. Types of Binary Tree
5. Applications of tree data structure

98	6	Tree Traversals
99	7	Threaded Binary Tree
100	8	Size of a tree
101	9	Determine if Two Trees are Identical
102	10	Maximum Depth or Height of a Tree
103	11	Write a C program to Delete a Tree.
104	12	Write an Efficient C Function to Convert a Binary Tree into its Mirror Tree
105	13	If you are given two traversal sequences, can you construct the binary tree?
106	14	Given a binary tree, print out all of its root-to-leaf paths one per line.
107	15	The Great Tree-List Recursion Problem.
108	16	Level Order Tree Traversal
109	17	Count leaf nodes in a binary tree
110	18	Level order traversal in spiral form
111	19	Check for Children Sum Property in a Binary Tree.
112	20	Convert an arbitrary Binary Tree to a tree that holds Children Sum Property
113	21	Diameter of a Binary Tree
114	22	How to determine if a binary tree is height-balanced?
115	23	Inorder Tree Traversal without Recursion
116	24	Inorder Tree Traversal without recursion and without stack!
117	25	Root to leaf path sum equal to a given number
118	26	Construct Tree from given Inorder and Preorder traversals
119	27	Given a binary tree, print all root-to-leaf paths
120	28	Double Tree
121	29	Maximum width of a binary tree
122	30	Foldable Binary Trees
123	31	Print nodes at k distance from root
124	32	Get Level of a node in a Binary Tree
125	33	Print Ancestors of a given node in Binary Tree
126	34	Check if a given Binary Tree is SumTree
127	35	Check if a binary tree is subtree of another binary tree
128	36	Connect nodes at same level
129	37	Connect nodes at same level using constant extra space
130	38	Populate Inorder Successor for all nodes
131	39	Convert a given tree to its Sum Tree
132	40	Vertical Sum in a given Binary Tree
133	41	Find the maximum sum leaf to root path in a Binary Tree
134	42	Construct Special Binary Tree from given Inorder traversal
135	43	Construct a special tree from given preorder traversal
136	44	Check whether a given Binary Tree is Complete or not
137	45	Boundary Traversal of binary tree
138	46	Construct Full Binary Tree from given preorder and postorder traversals
139	47	Iterative Preorder Traversal
140	48	Morris traversal for Preorder
141	49	Linked complete binary tree & its creation
142	50	Ternary Search Tree
143	51	Segment Tree | Set 1 (Sum of given range)
144	52	Largest Independent Set Problem

145 53 Iterative Postorder Traversal | Set 1 (Using Two Stacks)
146 54 Iterative Postorder Traversal | Set 2 (Using One Stack)
147 55 Reverse Level Order Traversal
148 56 Construct Complete Binary Tree from its Linked List Representation
149 57 Convert a given Binary Tree to Doubly Linked List | Set 1
150 58 Tree Isomorphism Problem
151 59 Find all possible interpretations of an array of digits
152 60 Iterative Method to find Height of Binary Tree
153 61 Custom Tree Problem
154 62 Convert a given Binary Tree to Doubly Linked List | Set 2
155 63 Print ancestors of a given binary tree node without recursion
156 64 Difference between sums of odd level and even level nodes of a Binary Tree
157 65 Print Postorder traversal from given Inorder and Preorder traversals
158 66 Find depth of the deepest odd level leaf node
159 67 Check if all leaves are at same level
160 68 Print Left View of a Binary Tree
161 69 Remove all nodes which don't lie in any path with sum>= k
162 70 Extract Leaves of a Binary Tree in a Doubly Linked List
163 71 Deepest left leaf node in a binary tree
164 72 Find next right node of a given key
165 73 Sum of all the numbers that are formed from root to leaf paths
166 74 Convert a given Binary Tree to Doubly Linked List | Set 3
167 75 Lowest Common Ancestor in a Binary Tree | Set 1
168 76 Find distance between two given keys of a Binary Tree
169 77 Print all nodes that are at distance k from a leaf node
170 78 Check if a given Binary Tree is height balanced like a Red-Black Tree,
171 79 Print all nodes at distance k from a given node
172 80 Print a Binary Tree in Vertical Order | Set 1
173 81 Construct a tree from Inorder and Level order traversals
174 82 Find the maximum path sum between two leaves of a binary tree
175 83 Reverse alternate levels of a perfect binary tree
176 84 Check if two nodes are cousins in a Binary Tree
177 85 Check if a binary tree is subtree of another binary tree | Set 2
178 86 Serialize and Deserialize a Binary Tree
179 87 Print nodes between two given level numbers of a binary tree
180 88 closest leaf in a Binary Tree
181 89 Convert a Binary Tree to Threaded binary tree
182 90 Print Nodes in Top View of Binary Tree
183 91 Bottom View of a Binary Tree
184 92 Perfect Binary Tree Specific Level Order Traversal
185 93 Convert left-right representation of a bianry tree to down-right
186 94 Print level order traversal line by line
187 95 Minimum no. of iterations to pass information to all nodes in the tree
188 96 Clone a Binary Tree with Random Pointers
189 97 Given a binary tree, how do you remove all the half nodes?
190 98 Vertex Cover Problem | Set 2 (Dynamic Programming Solution for Tree)
191 99 Check whether a binary tree is a full binary tree or not

100 Find sum of all left leaves in a given Binary Tree
101 Remove nodes on root to leaf paths of length < K
102 Iterative Search for a key 'x' in Binary Tree
103 Find maximum (or minimum) in Binary Tree

Quiz on Binary Tree

Quiz on Binary Tree Traversals

All articles on Tree

Binary Search Tree:

1 Search and Insert in BST
2 Deletion from BST
3 Minimum value in a Binary Search Tree
4 Inorder predecessor and successor for a given key in BST
5 Check if a binary tree is BST or not
6 Lowest Common Ancestor in a Binary Search Tree.
7 Sorted order printing of a given array that represents a BST
8 Inorder Successor in Binary Search Tree
9 Find k-th smallest element in BST (Order Statistics in BST)
10 Print BST keys in the given range
11 Sorted Array to Balanced BST
12 Find the largest BST subtree in a given Binary Tree
13 Check for Identical BSTs without building the trees
14 Add all greater values to every node in a given BST
15 Remove BST keys outside the given range
16 Check if each internal node of a BST has exactly one child
17 Find if there is a triplet in a Balanced BST that adds to zero
18 Merge two BSTs with limited extra space
19 Two nodes of a BST are swapped, correct the BST
20 Construct BST from given preorder traversal | Set 1
21 Construct BST from given preorder traversal | Set 2
22 Floor and Ceil from a BST
23 Convert a BST to a Binary Tree such that sum of all greater keys is added to every key
24 Sorted Linked List to Balanced BST
25 In-place conversion of Sorted DLL to Balanced BST
26 Find a pair with given sum in a Balanced BST
27 Total number of possible Binary Search Trees with n keys
28 Merge Two Balanced Binary Search Trees
29 Binary Tree to Binary Search Tree Conversion
30 Transform a BST to greater sum tree
31 Inorder predecessor and successor for a given key in BST
32 K'th Largest Element in BST when modification to BST is not allowed
33 How to handle duplicates in Binary Search Tree?

Quiz on Binary Search Trees

Quiz on Balanced Binary Search Trees

Heap:

1. Binary Heap
2. Binomial Heap
3. Heap Sort
4. K'th Largest Element in an array
5. Sort an almost sorted array/
6. Sort an almost sorted array/
7. Tournament Tree (Winner Tree) and Binary Heap

Hashing:

1. Hashing Introduction
2. Print a Binary Tree in Vertical Order
3. Find whether an array is subset of another array
4. Union and Intersection of two Linked Lists
5. Find a pair with given sum
6. Check if a given array contains duplicate elements within k distance from each other
7. Find Itinerary from a given list of tickets
8. Find number of Employees Under every Employee

Quiz on Hashing

Graph:

Introduction, DFS and BFS:

1. Graph and its representations
2. Breadth First Traversal for a Graph
3. Depth First Traversal for a Graph
4. Applications of Depth First Search
5. Applications of Breadth First Traversal
6. Detect Cycle in a Directed Graph
7. Detect Cycle in a an Undirected Graph
8. Detect cycle in an undirected graph
9. Longest Path in a Directed Acyclic Graph
10. Topological Sorting
11. Check whether a given graph is Bipartite or not
12. Snake and Ladder Problem
13. Minimize Cash Flow among a given set of friends who have borrowed money from each ot
14. Boggle (Find all possible words in a board of characters)
15. Assign directions to edges so that the directed graph remains acyclic

Minimum Spanning Tree:

1. Prim's Minimum Spanning Tree (MST))
2. Applications of Minimum Spanning Tree Problem
3. Prim's MST for Adjacency List Representation
4. Kruskal's Minimum Spanning Tree Algorithm
5. Boruvka's algorithm for Minimum Spanning Tree

Shortest Paths:

1. Dijkstra's shortest path algorithm
2. Dijkstra's Algorithm for Adjacency List Representation
3. Bellman–Ford Algorithm
4. Floyd Warshall Algorithm
5. Johnson's algorithm for All-pairs shortest paths
6. Shortest Path in Directed Acyclic Graph
7. Some interesting shortest path questions,
8. Shortest path with exactly k edges in a directed and weighted graph

Connectivity:

1. Find if there is a path between two vertices in a directed graph
2. Connectivity in a directed graph
3. Articulation Points (or Cut Vertices) in a Graph
4. Biconnected graph
5. Bridges in a graph
6. Eulerian path and circuit
7. Fleury's Algorithm for printing Eulerian Path or Circuit
8. Strongly Connected Components
9. Transitive closure of a graph
10. Find the number of islands
11. Count all possible walks from a source to a destination with exactly k edges
12. Euler Circuit in a Directed Graph
13. Biconnected Components
14. Check if a given graph is tree or not
15. Karger's algorithm for Minimum Cut

Hard Problems:

1. Graph Coloring (Introduction and Applications)
2. Greedy Algorithm for Graph Coloring
3. Travelling Salesman Problem (Naive and Dynamic Programming)
4. Travelling Salesman Problem (Approximate using MST)
5. Hamiltonian Cycle
6. Vertex Cover Problem | Set 1 (Introduction and Approximate Algorithm)
7. K Centers Problem | Set 1 (Greedy Approximate Algorithm)

Maximum Flow:

294 1 Ford-Fulkerson Algorithm for Maximum Flow Problem
295 2 Find maximum number of edge disjoint paths between two vertices
296 3 Find minimum s-t cut in a flow network
297 4 Maximum Bipartite Matching
298 5 Channel Assignment Problem

Quiz on Graph

Quiz on Graph Traversals

Quiz on Graph Shortest Paths

Quiz on Graph Minimum Spanning Tree

Advanced Data Structure:

Advanced Lists:

299 1 Memory efficient doubly linked list
300 2 XOR Linked List – A Memory Efficient Doubly Linked List | Set 1
301 3 XOR Linked List – A Memory Efficient Doubly Linked List | Set 2
302 4 Skip List | Set 1 (Introduction)
303 5 Self Organizing List | Set 1 (Introduction)

Trie:

304 1 Trie | (Insert and Search)
305 2 Trie | (Delete)
306 3 Longest prefix matching – A Trie based solution in Java
307 4 Print unique rows in a given boolean matrix

How to Implement Reverse DNS Look Up Cache?
How to Implement Forward DNS Look Up Cache?

Suffix Array and Suffix Tree :

308 1 Suffix Array Introduction
309 2 Suffix Array nLogn Algorithm
310 3 Suffix Tree Introduction
311 4 Ukkonen's Suffix Tree Construction – Part 1
312 5 Ukkonen's Suffix Tree Construction – Part 2
313 6 Ukkonen's Suffix Tree Construction – Part 3
314 7 Ukkonen's Suffix Tree Construction – Part 4,
315 8 Ukkonen's Suffix Tree Construction – Part 5
316 9 Ukkonen's Suffix Tree Construction – Part 6

10. Generalized Suffix Tree
11. Build Linear Time Suffix Array using Suffix Tree
12. Substring Check
13. Searching All Patterns
14. Longest Repeated Substring,
15. Longest Common Substring, Longest Palindromic Substring

AVL Tree:

1. AVL Tree | Set 1 (Insertion)
2. AVL Tree | Set 2 (Deletion)

AVL with duplicate keys

Splay Tree:

1. Splay Tree | Set 1 (Search)
2. Splay Tree | Set 2 (Insert)

B Tree:

1. B-Tree | Set 1 (Introduction)
2. B-Tree | Set 2 (Insert)
3. B-Tree | Set 3 (Delete)

Segment Tree:

1. Segment Tree | Set 1 (Sum of given range)
2. Segment Tree | Set 2 (Range Minimum Query)

Red-Black Tree:

1. Red-Black Tree Introduction
2. Red Black Tree Insertion.
3. Red-Black Tree Deletion
4. Program for Red Black Tree Insertion

Others:

1. Ternary Search Tree
2. Interval Tree
3. Implement LRU Cache
4. Sort numbers stored on different machines
5. Find the k most frequent words from a file
6. Given a sequence of words, print all anagrams together
7. Tournament Tree (Winner Tree) and Binary Heap
8. Decision Trees – Fake (Counterfeit) Coin Puzzle (12 Coin Puzzle)

9 Spaghetti Stack
10 Data Structure for Dictionary and Spell Checker?
11 KD Tree
12 Binomial Heap
13 KD Tree
14 Binary Indexed Tree

Array:

1 Given an array A[] and a number x, check for pair in A[] with sum as x
2 Majority Element
3 Find the Number Occurring Odd Number of Times
4 Largest Sum Contiguous Subarray
5 Find the Missing Number
6 Search an element in a sorted and pivoted array
7 Merge an array of size n into another array of size m+n
8 Median of two sorted arrays
9 Write a program to reverse an array
10 Program for array rotation
11 Reversal algorithm for array rotation
12 Block swap algorithm for array rotation
13 Maximum sum such that no two elements are adjacent
14 Leaders in an array
15 Sort elements by frequency | Set 1
16 Count Inversions in an array
17 Two elements whose sum is closest to zero
18 Find the smallest and second smallest element in an array
19 Check for Majority Element in a sorted array
20 Maximum and minimum of an array using minimum number of comparisons
21 Segregate 0s and 1s in an array
22 k largest(or smallest) elements in an array | added Min Heap method
23 Maximum difference between two elements
24 Union and Intersection of two sorted arrays
25 Floor and Ceiling in a sorted array
26 A Product Array Puzzle
27 Segregate Even and Odd numbers
28 Find the two repeating elements in a given array
29 Sort an array of 0s, 1s and 2s
30 Find the Minimum length Unsorted Subarray, sorting which makes the complete array sort
31 Find duplicates in O(n) time and O(1) extra space
32 Equilibrium index of an array
33 Linked List vs Array
34 Which sorting algorithm makes minimum number of memory writes?
35 Turn an image by 90 degree
36 Next Greater Element
37 Check if array elements are consecutive | Added Method 3
38 Find the smallest missing number

39 Count the number of occurrences in a sorted array
40 Interpolation search vs Binary search
41 Given an array arr[], find the maximum j – i such that arr[j] > arr[i]
42 Maximum of all subarrays of size k (Added a O(n) method)
43 Find whether an array is subset of another array | Added Method 3
44 Find the minimum distance between two numbers
45 Find the repeating and the missing | Added 3 new methods
46 Median in a stream of integers (running integers)
47 Find a Fixed Point in a given array
48 Maximum Length Bitonic Subarray
49 Find the maximum element in an array which is first increasing and then decreasing
50 Count smaller elements on right side
51 Minimum number of jumps to reach end
52 Implement two stacks in an array
53 Find subarray with given sum
54 Dynamic Programming | Set 14 (Maximum Sum Increasing Subsequence)
55 Longest Monotonically Increasing Subsequence Size (N log N)
56 Find a triplet that sum to a given value
57 Find the smallest positive number missing from an unsorted array
58 Find the two numbers with odd occurrences in an unsorted array
59 The Celebrity Problem
60 Dynamic Programming | Set 15 (Longest Bitonic Subsequence)
61 Find a sorted subsequence of size 3 in linear time
62 Largest subarray with equal number of 0s and 1s
63 Dynamic Programming | Set 18 (Partition problem)
64 Maximum Product Subarray
65 Find a pair with the given difference
66 Replace every element with the next greatest
67 Dynamic Programming | Set 20 (Maximum Length Chain of Pairs)
68 Find four elements that sum to a given value | Set 1 (n^3 solution)
69 Find four elements that sum to a given value | Set 2 (O(n^2Logn) Solution)
70 Sort a nearly sorted (or K sorted) array
71 Maximum circular subarray sum
72 Find the row with maximum number of 1s
73 Median of two sorted arrays of different sizes
74 Shuffle a given array
75 Count the number of possible triangles
76 Iterative Quick Sort
77 Find the number of islands
78 Construction of Longest Monotonically Increasing Subsequence (N log N)
79 Find the first circular tour that visits all petrol pumps
80 Arrange given numbers to form the biggest number
81 Pancake sorting
82 A Pancake Sorting Problem
83 Tug of War
84 Divide and Conquer | Set 3 (Maximum Subarray Sum)
85 Counting Sort

435 86 Merge Overlapping Intervals
436 87 Find the maximum repeating number in O(n) time and O(1) extra space
437 88 Stock Buy Sell to Maximize Profit
438 89 Rearrange positive and negative numbers in O(n) time and O(1) extra space
439 90 Sort elements by frequency | Set 2
440 91 Find a peak element
441 92 Print all possible combinations of r elements in a given array of size n
442 93 Given an array of of size n and a number k, find all elements that appear more than n/k tin
443 94 Find the point where a monotonically increasing function becomes positive first time
444 95 Find the Increasing subsequence of length three with maximum product
445 96 Find the minimum element in a sorted and rotated array
446 97 Stable Marriage Problem
447 98 Merge k sorted arrays | Set 1
448 99 Radix Sort
449 100 Move all zeroes to end of array
450 101 Find number of pairs such that x^y > y^x
451 102 Count all distinct pairs with difference equal to k
452 103 Find if there is a subarray with 0 sum
453 104 Smallest subarray with sum greater than a given value
454 105 Sort an array according to the order defined by another array
455 106 Maximum Sum Path in Two Arrays
456 107 Check if a given array contains duplicate elements within k distance from each other
457 108 Sort an array in wave form
458 109 K'th Smallest/Largest Element in Unsorted Array, K'th Smallest/Largest Element in Unsorte
459 110 K'th Smallest/Largest Element in Unsorted Array in Worst Case Linear Time
460 111 Find Index of 0 to be replaced with 1 to get longest continuous sequence of 1s in a binary a
461 112 Find the closest pair from two sorted arrays
462 113 Given a sorted array and a number x, find the pair in array whose sum is closest to x
463 114 Count 1's in a sorted binary array
464 115 Print All Distinct Elements of a given integer array
465 116 Construct an array from its pair-sum array
466 117 Find common elements in three sorted arrays
467 118 Find the first repeating element in an array of integers
468 119 Find the smallest positive integer value that cannot be represented as sum of any subset o
469 120 Rearrange an array such that 'arr[j]' becomes 'i' if 'arr[i]' is 'j'
470 121 Find position of an element in a sorted array of infinite numbers
471 122 Can QuickSort be implemented in O(nLogn) worst case time complexity?
472 123 Check if a given array contains duplicate elements within k distance from each other
473 124 Find the element that appears once
474 125 Replace every array element by multiplication of previous and next
475 126 Check if any two intervals overlap among a given set of intervals
476 127 Delete an element from array (Using two traversals and one traversal)
477 128 Given a sorted array and a number x, find the pair in array whose sum is closest to x
478 129 Find the largest pair sum in an unsorted array
479 130 Online algorithm for checking palindrome in a stream
480 131 Find Union and Intersection of two unsorted arrays
481 132 Pythagorean Triplet in an array

482 133 Maximum profit by buying and selling a share at most twice

Quiz on Array

Matrix:

483 1 Search in a row wise and column wise sorted matrix
484 2 Print a given matrix in spiral form
485 3 A Boolean Matrix Question
486 4 Print unique rows in a given boolean matrix
487 5 Maximum size square sub-matrix with all 1s
488 6 Print unique rows in a given boolean matrix
489 7 Inplace M x N size matrix transpose | Updated
490 8 Print Matrix Diagonally
491 9 Dynamic Programming | Set 27 (Maximum sum rectangle in a 2D matrix)
492 10 Strassen's Matrix Multiplication
493 11 Create a matrix with alternating rectangles of O and X
494 12 Find the row with maximum number of 1s
495 13 Print all elements in sorted order from row and column wise sorted matrix
496 14 Given an n x n square matrix, find sum of all sub-squares of size k x k
497 15 Count number of islands where every island is row-wise and column-wise separated
498 16 Find a common element in all rows of a given row-wise sorted matrix
499 17 Given a matrix of 'O' and 'X', replace 'O' with 'X' if surrounded by 'X'

Misc:

500 1 Commonly Asked Data Structure Interview Questions | Set 1
501 2 A data structure for n elements and O(1) operations

n nodes

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ed Array in Expected Linear Time,

array

of a given array