STRIVER SDE SHEET

Day-1

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	1	**Set Matrix Zeros**	Coming Soon	Click	Youtube	Code	Code
✔	2	**Pascal Triangle**	Solution	Click	YouTube	Code	Code
✔	3.	**Next Permutation**	Solution	Click	YouTube	Code	Code
✔	4.	**Kadane's Algorithm**	Coming Soon	Click	YouTube	Code	Code
✔	5.	**Sort an array of 0's 1's 2's**	Solution	Click	YouTube	Code	Code
✔	6.	**Stock Buy and Sell**	Solution	Click	YouTube	Code	Code

Day-2

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	1	**Rotate Matrix**	Solution	Click	Youtube	Code	Code

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	2	**Merge Overlapping Subintervals**	Solution	Click	YouTube	Code	Code
	3.	**Merge two sorted Arrays without extra space**	Solution	Click	YouTube	Code	Code
✔	4.	**Find the duplicate in an array of N+1 integers.**	Coming Soon	Click	YouTube	Code	Code
	5.	**Repeat and Missing Number**	Solution	Click	YouTube	Code	Code
	6.	**Inversion of Array** (Pre-req: Merge Sort)	Solution	Click	YouTube	Code	Code

Day-3

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	1	**Search in a 2d Matrix**	Solution	Click	Youtube	Code	Code
	2	**Pow(X,n)**	Solution	Click	YouTube	Code	Code
✔	3.	**Majority Element (>N/2 times)**	Solution	Click	YouTube	Code	Code
✔	4.	**Majority Element (>N/3 times)**	Solution	Click	YouTube	Code	Code
	5.	**Grid Unique Paths**	Solution	Click	YouTube	Code	Code
	6.	**Reverse Pairs (Leetcode)**	Solution	Click	YouTube	Code	Code

Day-4

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	1	**2-Sum-Problem**	Solution	Click	Youtube	Code	Code
✔	2	**4-sum-Problem**	Solution	Click	YouTube	Code	Code
	3.	**Longest Consecutive Sequence**	Coming Soon	Click	YouTube	Code	Code
	4.	**Largest Subarray with 0 sum**	Solution	Click	YouTube	Code	Code

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
5.	Count number of subarrays with given Xor K	Solution	Click	YouTube	Code	Code
6.	Longest Substring without repeat	Solution	Click	YouTube	Code	Code

Day-5: Linked List

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✓	1	Reverse a LinkedList	Solution	Click	Youtube	Code	Code
✓	2	Find the middle of LinkedList	Solution	Click	YouTube	Code	Code
	3.	Merge two sorted Linked List (use method used in mergeSort)	Solution	Click	YouTube	Code	Code
✓	4.	Remove N-th node from back of LinkedList	Solution	Click	YouTube	Code	Code
✓	5.	Add two numbers as LinkedList	Solution	Click	YouTube	Code	Code
✓	6.	Delete a given Node when a node is given. (0(1) solution)	Coming Soon	Click	YouTube	Code	Code

Day-6

	Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
✓	1	Find intersection point of Y LinkedList	Click	Youtube	Code	Code
✓	2	Detect a cycle in Linked List	Click	YouTube	Code	Code
✓	3.	Reverse a LinkedList in groups of size k.	Click	YouTube	Code	Code
✓	4.	Check if a LinkedList is palindrome or not.	Click	YouTube	Code	Code

	Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
✓	5.	**Find the starting point of the Loop of LinkedList**	Click	YouTube	Code	Code
✓	6.	**Flattening of a LinkedList**	Click	YouTube	Code	Code
✓	7.	**Rotate a LinkedList**	Click	YouTube	Code	Code

Day-7

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
1	**Clone a Linked List with random and next pointer**		Click	Youtube	Code	Code
2	**3 sum**	Solution	Click	YouTube	Code	Code
3.	**Trapping rainwater**	Solution	Click	YouTube	Code	Code
4.	**Remove Duplicate from Sorted array**	Solution	Click	YouTube	Code	Code
5.	**Max consecutive ones**	Solution	Click	YouTube	Code	Code

Day-8

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
1	**N meeting in one room**		Click	Youtube	Code	Code
2	**Minimum number of platforms required for a railway**	Solution	Click	YouTube	Code	Code
3.	**Job sequencing Problem**		Click	YouTube	Code	Code
4.	**Fractional Knapsack Problem**		Click	YouTube	Code	Code
5.	**Greedy algorithm to find minimum number of coins**		Click	YouTube	Code	Code
6.	**Activity Selection (it is the same as N meeting in one room)**		Click	Youtube	Code	Code

Day-9: Recursion

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	1	Subset Sums	Solution	Click	Youtube	Code	Code
✔	2	Subset-II		Click	YouTube	Code	Code
✔	3.	Combination sum-1	Solution	Click	YouTube	Code	Code
✔	4.	Combination sum-2		Click	YouTube	Code	Code
✔	5.	Palindrome Partitioning	Solution	Click	YouTube	Code	Code
	6.	K-th permutation Sequence	Solution	Click	YouTube	Code	Code

Day-10 : Recursion & Backtracking

	Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
✔	1	Print all permutations of a string/array	Click	Youtube	Code	Code
✔	2	N queens Problem	Click	Youtube	Code	Code
✔	3.	Sudoku Solver	Click	Youtube	Code	Code
✔	4.	M coloring Problem	Click	Youtube	Code	Code
✔	5.	Rat in a Maze	Click	Youtube	Code	Code
	6.	Word Break (print all ways)	Click	Youtube	Code	Code

Day-11: Binary Search

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	1	The N-th root of an integer	Solution	Click	Youtube	Code	Code
	2	Matrix Median		Click	Youtube	Code	Code
	3.	Find the element that appears once in a sorted array, and the rest element appears twice (Binary search)	Solution	Click	Youtube	Code	Code
	4.	Search element in a sorted and rotated array/ find pivot where it is rotated	Solution	Click	Youtube	Code	Code

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
5.	**Median of 2 sorted arrays**	Solution	Click	Youtube	Code	Code
6.	**K-th element of two sorted arrays**	Solution	Click	Youtube	Code	Code
7.	**Allocate Minimum Number of Pages**	Solution	Click	Youtube	Code	Code
8.	**Aggressive Cows**	Solution	Click	Youtube	Code	Code

Day-12: TRIES (Can be done at Last, but still a very very important topic) Watch this playlist -> Link

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
1	**Implement Trie (Prefix Tree)**	Click	Youtube	Code	Code
2	**Implement Trie – 2 (Prefix Tree)**	Click	Youtube	Code	Code
3.	**Longest String with All Prefixes**	Click	Youtube	Code	Code
4.	**Number of Distinct Substrings in a String**	Click	Youtube	Code	Code
4.	**Power Set (this is very important)**	Click	Youtube	Code	Code
5.	**Maximum XOR of two numbers in an array**	Click	Youtube	Code	Code
6.	**Maximum XOR With an Element From Array**	Click	Youtube	Code	Code

Day-13 : (Stack and Queue)

Q.No	Problem Name	Solution	Problem Link	Video Solution	C++ Code	Java Code
1	**Implement Stack Using Arrays**	Solution	Click	Youtube	Code	Code
2	**Implement Queue Using Arrays**	Solution	Click	Youtube	Code	Code
3.	**Implement Stack using Queue (using single queue)**	Solution	Click	Youtube	Code	Code
4.	**Implement Queue using Stack (0(1) amortized method)**	Solution	Click	Youtube	Code	Code
5.	**Check for balanced parentheses**	Solution	Click	Youtube	Code	Code

Q.No	Problem Name	Solution	Problem Link	Video Solution	C++ Code	Java Code
6.	**Next Greater Element**	Solution	Click	Youtube	Code	Code
7.	**Sort a Stack**		Click	Youtube	Code	Code

Day-14 :

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
1	**Next Smaller Element**		Click	Youtube	Code	Code
2	**LRU cache (IMPORTANT)**	Solution	Click	Youtube	Code	Code
3.	**LFU Cache**		Click	Youtube	Code	Code
4.	**Largest rectangle in a histogram**	Solution	Click	Two-Pass: Youtube One Pass: Youtube	Code	Code
5.	**Sliding Window maximum**	Solution	Click	Youtube	Code	Code
6.	**Implement Min Stack**	Solution	Click	Youtube	Code	Code
7.	**Rotten Orange (Using BFS)**	Solution	Click			
8.	**Stock Span Problem**		Click			
9.	**Find the maximum of minimums of every window size**		Click			
10.	**The Celebrity Problem**		Click			

Day-15: String

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
✓ 1	**Reverse Words in a String**	Click	Youtube	Code	Code
2	**Longest Palindrome in a string**	Click	Youtube	Code	Code
✓ 3.	**Roman Number to Integer and vice versa**	Click	Youtube	Code	Code
✓ 4.	**Implement ATOI/STRSTR**	Click	Youtube	Code	Code

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
5.	**Longest Common Prefix**	Click	Youtube	Code	Code
6.	**Rabin Karp**	Click	Youtube	Code	Code

Day-16: String [Continued]

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
1	**Z-Function**	Click	Youtube	Code	Code
2	**KMP algo / LPS(pi) array**	Click	YouTube	Code	Code
3.	**Minimum characters needed to be inserted in the beginning to make it palindromic**	Click	YouTube	Code	Code
✔ 4.	**Check for Anagrams**	Click	YouTube	Code	Code
5.	**Count and Say**	Click	YouTube	Code	Code
6.	**Compare version numbers**	Click	YouTube	Code	Code

Day-17: Binary Tree (Introduction)

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
1	**Inorder Traversal**	Morris Traversal Iterative/Recursive	Click	Youtube (Recursive) Youtube (Iterative) Youtube (Morris Traversal)	Code (Recursive) Code (Iterative)	Code (Recursive) Code (Iterative) Code (Morris)
2	**Preorder Traversal**	Morris Traversal Solution	Click	YouTube Youtube (Morris Traversal)	Code (Morris)	Code
✔ 3.	**Postorder Traversal**	Solution	Click	YouTube	Code	Code
✔ 4.	**LeftView Of Binary Tree**	Solution	Click	YouTube	Code	Code

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	5.	Bottom View of Binary Tree	Solution	Click	YouTube	Code	Code
✔	6.	Top View of Binary Tree	Solution	Click	YouTube	Code	Code
✔	7.	Preorder inorder postorder in a single traversal	Solution				
✔	8.	Vertical order traversal	Solution				

Day-18: Binary Tree [Continued]

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔	1	Level order Traversal / Level order traversal in spiral form	Solution	Click	Youtube	Code	Code
✔	2	Height of a Binary Tree	Solution	Click	YouTube	Code	Code
✔	3.	Diameter of Binary Tree	Solution	Click	YouTube	Code	Code
✔	4.	Check if the Binary tree is height-balanced or not	Solution	Click	YouTube	Code	Code
✔	5.	LCA in Binary Tree	Solution	Click	YouTube	Code	Code
✔	6.	Check if two trees are identical or not	Solution	Click	YouTube	Code	Code
✔	7.	Zig Zag Traversal of Binary Tree	Solution				
✔	8.	Boundary Traversal of Binary Tree	Solution				

Day-19: Binary Tree [Continued]

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✓	1	**Maximum path sum**	Solution	Click	Youtube	Code	Code
✓	2	**Construct Binary Tree from inorder and preorder**		Click	YouTube	Code	Code
✓	3.	**Construct Binary Tree from Inorder and Postorder**		Click	YouTube	Code	Code
✓	4.	**Symmetric Binary Tree**	Solution	Click	YouTube	Code	Code
✓	5.	**Flatten Binary Tree to LinkedList**		Click	YouTube	Code	Code
✓	6.	**Check if Binary Tree is the mirror of itself or not**		Click	YouTube	Code	Code

Day-20: Binary Search Tree

	Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
✓	1	**Populate Next Right pointers of Tree**	Click	Youtube	Code	Code
✓	2	**Search given Key in BST**	Click	YouTube	Code	Code
✓	3.	**Construct BST from given keys**	Click	YouTube	Code	Code
✓	4.	**Check is a BT is BST or not**	Click	YouTube	Code	Code
✓	5.	**Find LCA of two nodes in BST**	Click	YouTube	Code	Code
✓	6.	**Find the inorder predecessor/successor of a given Key in BST.**	Click	YouTube	Code	Code

Day-21: Binary Search Tree [Continued]

	Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✓	1.	**Floor in a BST**		Click	Youtube	Code	Code
✓	2.	**Ceil in a BST**		Click	Youtube	Code	Code
✓	3.	**Find K-th smallest element in BST**	Solution	Click	YouTube	Code	Code
✓	4.	**Find K-th largest element in BST**	Solution	Click	YouTube	Code	Code

Q.No	Problem Name	Detailed Solution	Problem Link	Video Solution	C++ Code	Java Code
✔ 5.	**Find a pair with a given sum in BST**		Click	YouTube	Code	Code
✔ 6.	**BST iterator**		Click	YouTube	Code	Code
7.	**Size of the largest BST in a Binary Tree**		Click	YouTube	Code	Code
8.	**Serialize and deserialize Binary Tree**	Solution	Click	YouTube	Code	Code

Day-22: Trees [Miscellaneous]

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
1	**Binary Tree to Double Linked List**	Click	Youtube	Code	Code
2	**Find median in a stream of running integers.**	Click	YouTube	Code	Code
3.	**K-th largest element in a stream.**	Click	YouTube	Code	Code
4.	**Distinct numbers in Window.**	Click	YouTube	Code	Code
5.	**K-th largest element in an unsorted array.**	Click	YouTube	Code	Code
6.	**Flood-fill Algorithm**	Click	YouTube	Code	Code

Day-23: Graphs – Part 1

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
1	**Clone a graph (Not that easy as it looks)**	Click	Youtube	Code	Code
2	**DFS**	Click	YouTube	Code	Code
3.	**BFS**	Click	YouTube	Code	Code
4.	**Detect A cycle in Undirected Graph using BFS**	Click	YouTube	Code	Code
5.	**Detect A cycle in Undirected Graph using DFS**	Click	YouTube	Code	Code
6.	**Detect A cycle in a Directed Graph using DFS**	Click	YouTube	Code	Code

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
7.	Detect A cycle in a Directed Graph using BFS	Click	YouTube	Code	Code
8.	Topological Sort	Click	DFS: YouTube BFS: Youtube	Code	Code
9.	Number of islands (Do in Grid and Graph both)	Click	YouTube	Code	Code
10.	Bipartite Check using BFS	Click	YouTube	Code	Code
11.	Bipartite Check using DFS	Click	YouTube	Code	Code

Day-24: Graphs – Part 2

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
1	Strongly Connected Component(using KosaRaju's algo)	Click	Youtube	Code	Code
2	Dijkstra's Algorithm	Click	YouTube	Code	Code
3.	Bellman-Ford Algo	Click	YouTube	Code	Code
4.	Floyd Warshall Algorithm	Click	YouTube	Code	Code
5.	MST using Prim's Algo	Click	YouTube	Code	Code
6.	MST using Kruskal's Algo	Click	YouTube	Code	Code

Day-25: Dynamic Programming – Part 1

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
1	Max Product Subarray	Click	Youtube	Code	Code
2	Longest Increasing Subsequence	Click	YouTube	Code	Code
3.	Longest Common Subsequence	Click	YouTube	Code	Code
4.	0-1 Knapsack	Click	YouTube	Code	Code
5.	Edit Distance	Click	YouTube	Code	Code

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
6.	**Maximum sum increasing subsequence**	Click	YouTube	Code	Code
7.	**Matrix Chain Multiplication**	Click	YouTube	Code	Code

Day-26: Dynamic Programming – Part 2

Q.No	Problem Name	Problem Link	Video Solution	C++ Code	Java Code
1	**Maximum sum path in the matrix, (count paths and similar type do, also backtrack to find the maximum path)**	Click	Youtube	Code	Code
2	**Coin change**	Click	YouTube	Code	Code
3.	**Subset Sum**	Click	YouTube	Code	Code
4.	**Rod Cutting**	Click	YouTube	Code	Code
5.	**Egg Dropping**	Click	YouTube	Code	Code
6.	**Word Break**	Click	YouTube	Code	Code
7.	**Palindrome Partitioning (MCM Variation)**	Click	Youtube	Code	Code
8.	**Maximum profit in Job scheduling**	Click	Youtube	Code	Code

Day-27:

1. Revise OS notes that you would have made during your sem
2. If not made notes, spend 2 or 3 days and make notes from Knowledge Gate.

Day-28:

1. Revise DBMS notes that you would have made during your semesters.
2. If not made notes, spend 2 or 3 days and make notes from Knowledge Gate.

Day-29:

1. Revise CN notes, that you would have made during your sem.

2. If not made notes, spend 2 or 3 days and make notes from Knowledge Gate.

Day-30:

1. Make a note of how will your represent your projects, and prepare all questions related to tech which you have used in your projects. Prepare a note which you can say for 3-10 minutes when he asks you that say something about the project.

> *Hurrah!! You are ready for your placement after a month of hard work without a cheat day.*
>
> *~Striver*

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