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*