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Check the review of this SDE sheet at Striver's instagram story highlights. Instagram id: **Striver 79** 

#### SDE SHEET(CORE):

https://docs.google.com/document/d/1sQIRDw6--HwyxeFL7b4kBsOG-Tz7rXMbpWNnfvJErA4/edit

To know the entire list and other stuffs like Projects, Resume, how to give interviews....watch the entire video at:

https://www.youtube.com/watch?v=WNtzUR MwUQ

Find the placement series at:

https://www.youtube.com/watch?v=c0\_1QnyVYQY&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=1

Subscribe to the channel. :) (take U forward) (striver\_79)
(Channel run by ex-Amazon | Media.net(Directi) | GFG) employee, CM at Codeforces and 6\* at Codechef)

Only start doing these problems if you feel you are comfortable with solving basic problems of DSA. Once you are, you can start preparing for these problems, because these problems are solely interview based.

Day1: (Arrays)

The initial videos might not have high production quality but are content rich, because of me being a noob to youtube. The videos after 20's are of 4k quality and high quality sound!!

A. Sort an array of 0's 1's 2's without using extra space or sorting algo

https://www.youtube.com/watch?v=oaVa-9wmpns&list=PLgUwDviBIf0rPG3Ictpu74Y WBQ1CaBkm2&index=2 (Problem link in description)

## **2.** Repeat and Missing Number

https://www.youtube.com/watch?v=5nMGY4VUoRY&list=PLgUwDviBIf0rPG3Ictpu74 YWBQ1CaBkm2&index=3 (Problem link in description)

## **3.** Merge two sorted Arrays without extra space

https://www.youtube.com/watch?v=hVl2b3bLzBw&list=PLgUwDviBIf0rPG3Ictpu74Y WBQ1CaBkm2&index=4 (Problem link in description)

# 4. Kadane's Algorithm

https://www.youtube.com/watch?v=w\_KEocd\_\_20&list=PLgUwDviBIf0rPG3Ictpu74Y WBQ1CaBkm2&index=5

# 5 Merge Overlapping Subintervals

https://www.youtube.com/watch?v=2JzRBPFYbKE&list=PLgUwDviBlf0rPG3lctpu74Y WBQ1CaBkm2&index=6

# 6 Find the duplicate in an array of N+1 integers.

(Ignore the video quality, as this was the first video which i recorded)

<a href="https://www.youtube.com/watch?v=32Ll35mhWg0&list=PLgUwDviBIf0rPG3lctpu74Y">https://www.youtube.com/watch?v=32Ll35mhWg0&list=PLgUwDviBIf0rPG3lctpu74Y</a>

WBQ1CaBkm2&index=1

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#### Day2: (Arrays)

## 1. Set Matrix Zeros

(<a href="https://www.youtube.com/watch?v=M65xBewcqcl&list=PLgUwDviBlf0rPG3lctpu74Y">https://www.youtube.com/watch?v=M65xBewcqcl&list=PLgUwDviBlf0rPG3lctpu74Y</a> WBQ1CaBkm2&index=7)

# 2. Pascal Triangle

https://www.youtube.com/watch?v=6FLvhQjZqvM&list=PLgUwDviBIf0rPG3Ictpu74Y WBQ1CaBkm2&index=8

# 3. Next Permutation

https://www.youtube.com/watch?v=LuLCLgMElus&list=PLgUwDviBIf0rPG3Ictpu74Y WBQ1CaBkm2&index=9

4. Inversion of Array (Using Merge Sort)

https://www.youtube.com/watch?v=kQ1mJlwW-c0&list=PLgUwDviBlf0rPG3lctpu74Y WBQ1CaBkm2&index=10

Stock Buy and Sell

https://www.youtube.com/watch?v=eMSfBgbiEjk&list=PLgUwDviBIf0rPG3Ictpu74YWBQ1CaBkm2&index=11

6. Rotate Matrix

https://www.youtube.com/watch?v=Y72QeX0Efxw&list=PLgUwDviBlf0rPG3lctpu74Y WBQ1CaBkm2&index=12

#### Day3: (Arrays/maths)

1 Search in a 2D matrix

https://www.youtube.com/watch?v=ZYpYur0znng&list=PLgUwDviBlf0rPG3lctpu74YWBQ1CaBkm2&index=13

2. Pow(X,n)

https://www.youtube.com/watch?v=I0YC3876qxg&list=PLgUwDviBIf0rPG3Ictpu74Y WBQ1CaBkm2&index=14

3. Majority Element (>N/2 times)

https://www.youtube.com/watch?v=AoX3BPWNnoE&list=PLgUwDviBIf0rPG3lctpu74 YWBQ1CaBkm2&index=15

4. Majority Element (>N/3 times)

https://www.youtube.com/watch?v=yDbkQd9t2ig&list=PLgUwDviBlf0rPG3lctpu74YWBQ1CaBkm2&index=16

5. Grid Unique Paths

https://www.youtube.com/watch?v=t\_f0nwwdg5o&list=PLgUwDviBlf0rPG3lctpu74YW BQ1CaBkm2&index=17

6. Reverse Pairs (Leetcode)

https://www.youtube.com/watch?v=S6rsAlj\_iB4&list=PLgUwDviBlf0rPG3lctpu74YWBQ1CaBkm2&index=18

7. Go through Puzzles from GFG (Search on own)

Day4: (Hashing)

2 Sum problem

https://www.youtube.com/watch?v=dRUpbt8vHpo&list=PLgUwDviBIf0rVwua0kKYIsS \_ik\_1lvVK\_&index=1

2. 4 Sum problem

https://www.youtube.com/watch?v=4ggF3tXIAp0&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=20

## 3. Longest Consecutive Sequence

https://www.youtube.com/watch?v=qgizvmgeyUM&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=21

## 4. Largest Subarray with 0 sum

https://www.youtube.com/watch?v=xmguZ6GbatA&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=22

5. Count number of subarrays with given XOR(this clears a lot of problems)

<a href="https://www.youtubxe.com/watch?v=IO9R5CaGRPY&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=23">https://www.youtubxe.com/watch?v=IO9R5CaGRPY&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=23</a></a>

## 6. Longest substring without repeat

https://www.youtube.com/watch?v=qtVh-XEpsJo&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=25

#### Day5: (LinkedList)

## 1. Reverse a LinkedList

https://www.youtube.com/watch?v=iRtLEoL-r-g&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=26

## 2. Find middle of LinkedList

https://www.youtube.com/watch?v=sGdwSH8RK-o&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=27

# 3 Merge two sorted Linked List

https://www.youtube.com/watch?v=Xb4slcp1U38&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=28

## A. Remove N-th node from back of LinkedList

https://www.youtube.com/watch?v=Lhu3MsXZy-Q&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=29

## 5. Delete a given Node when a node is given. (0(1) solution)

https://www.youtube.com/watch?v=icnp4FJdZ\_c&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=30

## Add two numbers as LinkedList

https://www.youtube.com/watch?v=LBVsXSMOIk4&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=31

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## Day6:

## **✓**1. Find intersection point of Y LinkedList

https://www.youtube.com/watch?v=u4FWXfgS8jw&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=32

## 2. Detect a cycle in Linked List

https://www.youtube.com/watch?v=354J83hX7RI&list=PLgUwDviBIf0p4ozDR kJJkO Nnb1wdx2Ma&index=33

## 3. Reverse a LinkedList in groups of size k.

https://www.youtube.com/watch?v=Of0HPkk3JgI&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=33

## 4 Check if a LinkedList is palindrome or not.

https://www.youtube.com/watch?v=-DtNInqFUXs&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=35

## 15. Find the starting point of the Loop of LinkedList

https://www.youtube.com/watch?v=QfbOhn0WZ88&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=36

## 6. Flattening of a LinkedList

https://www.youtube.com/watch?v=ysytSSXpAI0&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=37

## 7. Rotate a LinkedList

https://www.youtube.com/watch?v=9VPm6nEbVPA&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=38

## Day7: (2-pointer)

Clone a Linked List with random and next pointer

https://www.youtube.com/watch?v=VNf6VynfpdM&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=39

2. 3 sum

https://www.youtube.com/watch?v=onLoX6Nhvmg&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=40

## 3. Trapping rainwater

https://www.youtube.com/watch?v=m18Hntz4go8&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=41

## 4. Remove Duplicate from Sorted array

https://www.youtube.com/watch?v=Fm\_p9IJ4Z\_8&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=42

## 5. Max consecutive ones

https://www.youtube.com/watch?v=Mo33MjjMlyA&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=43

#### Day8: (Greedy)

1 N meeting in one room

https://www.youtube.com/watch?v=II6ziNnub1Q&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=44

## 2. Minimum number of platforms required for a railway

https://www.youtube.com/watch?v=dxVcMDI7vyI&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=45

## 3. Job sequencing Problem

https://www.youtube.com/watch?v=LjPx4wQaRIs&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=46

## **4.** Fractional Knapsack Problem

https://www.youtube.com/watch?v=F\_DDzYnxO14&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=48

#### 5. Greedy algorithm to find minimum number of coins

https://www.youtube.com/watch?v=mVg9CfJvayM&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=47

#### 6. Activity Selection (it is same as N meeting in one room)

https://www.youtube.com/watch?v=II6ziNnub1Q&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=44

## Day9 (Recursion):

## 1. Subset Sums

https://www.youtube.com/watch?v=rYkfBRtMJr8&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=52

## 2. Subset-II

https://www.youtube.com/watch?v=RIn3gOkbhQE&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=53

# **√3**. Combination sum-1

https://www.youtube.com/watch?v=OyZFFqQtu98&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=49

## Combination sum-2

https://www.youtube.com/watch?v=G1fRTGRxXU8&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=50

## 5 Palindrome Partitioning

https://www.youtube.com/watch?v=WBgsABoClE0&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=51

## 6. K-th permutation Sequence

https://www.youtube.com/watch?v=wT7gcXLYoao&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=55

#### Day10: (Recursion and Backtracking)

## 1. Print all Permutations of a string/array

https://www.youtube.com/watch?v=f2ic2Rsc9pU&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=52

## 2. N queens Problem

https://www.youtube.com/watch?v=i05Ju7AftcM&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=57

## 3. Sudoku Solver

https://www.youtube.com/watch?v=FWAIf\_EVUKE&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=58

# M. Coloring Problem

https://www.youtube.com/watch?v=wuVwUK25Rfc&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=59

#### S. Rat in a Maze

https://www.youtube.com/watch?v=bLGZhJlt4y0&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=60 6. Word Break (print all ways) (Will be covered later in DP series)

## Day11: (Binary Search)

1. N-th root of an integer (use binary search) (square root, cube root, ..)

https://www.youtube.com/watch?v=WjpswYrS2nY&list=PLgUwDviBlf0p4ozDR\_kJJk
ONnb1wdx2Ma&index=61

# 2. Matrix Median

https://www.youtube.com/watch?v=63fPPOdIr2c&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=62

3. Find the element that appears once in sorted array, and rest element appears twice (Binary search)

https://www.youtube.com/watch?v=PzszoiY5XMQ&list=PLgUwDviBlf0p4ozDR\_kJJkONnb1wdx2Ma&index=63

- Search element in a sorted and rotated array/ find pivot where it is rotated <a href="https://www.youtube.com/watch?v=r3pMQ8-Ad5s&list=PLgUwDviBIf0p4ozDR\_kJJkO">https://www.youtube.com/watch?v=r3pMQ8-Ad5s&list=PLgUwDviBIf0p4ozDR\_kJJkO</a> Nnb1wdx2Ma&index=64
- Median of 2 sorted arrays
  <a href="https://www.youtube.com/watch?v=NTop3VTjmxk&list=PLgUwDviBIf0p4ozDR\_kJJkO">https://www.youtube.com/watch?v=NTop3VTjmxk&list=PLgUwDviBIf0p4ozDR\_kJJkO</a>
  Nnb1wdx2Ma&index=65
- 6. K-th element of two sorted arrays

  https://www.youtube.com/watch?v=nv7F4PiLUzo&list=PLgUwDviBIf0p4ozDR\_kJJkO
  Nnb1wdx2Ma&index=66
- 7. Allocate Minimum Number of Pages
  <a href="https://www.youtube.com/watch?v=gYmWHvRHu-s&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=69">https://www.youtube.com/watch?v=gYmWHvRHu-s&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=69</a>
- Aggressive Cows
  <a href="https://www.youtube.com/watch?v=wSOfYesTBRk&list=PLgUwDviBlf0p4ozDR\_kJJk">https://www.youtube.com/watch?v=wSOfYesTBRk&list=PLgUwDviBlf0p4ozDR\_kJJk</a>
  ONnb1wdx2Ma&index=70

Day12: (Bits) (Optional, very rare topic in interviews, but if you have time left, someone might ask)

- 1. Check if a number if a power of 2 or not in O(1)
- 2. Count total set bits
- 3. Divide Integers without / operator
- 4. Power Set (this is very important)
  <a href="https://www.youtube.com/watch?v=b7AYbpM5YrE&list=PLgUwDviBIf0p4ozDR\_kJJk">https://www.youtube.com/watch?v=b7AYbpM5YrE&list=PLgUwDviBIf0p4ozDR\_kJJk</a>
  ONnb1wdx2Ma&index=67

- 5. Find MSB in o(1)
- 6. Find square of a number without using multiplication or division operators.

## Day13: (Stack and Queue)

1 Implement Stack Using Arrays

https://www.youtube.com/watch?v=GYptUgnIM\_I&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=68

2. Implement Queue Using Arrays

https://www.youtube.com/watch?v=M6GnoUDpqEE&list=PLgUwDviBIf0p4ozDR\_kJJ kONnb1wdx2Ma&index=72

2. Implement Stack using Queue (using single queue)

https://www.youtube.com/watch?v=jDZQKzEtbYQ&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=74

4. Implement Queue using Stack (0(1) amortised method)

https://www.youtube.com/watch?v=3Et9MrMc02A&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=75

5. Check for balanced parentheses

https://www.youtube.com/watch?v=wkDfsKijrZ8&list=PLgUwDviBIf0p4ozDR\_kJJkONnb1wdx2Ma&index=74

6. Next Greater Element

https://www.youtube.com/watch?v=Du881K7Jtk8&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=75

7. Sort a Stack

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#### Day14:

1. Next Smaller Element

Similar to previous question next greater element, just do pop the greater elements out ..

## 2. LRU cache (vvvv. imp)

https://www.youtube.com/watch?v=xDEuM5qa0zg&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=77

#### Clean code:

https://www.youtube.com/watch?v=Xc4sICC8m4M&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=78

## (3 LFU Cache (Hard, can be ignored)

https://www.youtube.com/watch?v=0PSB9y8ehbk&list=PLgUwDviBlf0p4ozDR\_kJJk ONnb1wdx2Ma&index=79

#### Code:

https://www.youtube.com/watch?v=mzqHIAW7jeE&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=80

Largest rectangle in histogram (Do the one pass solution)

## Two pass:

https://www.youtube.com/watch?v=X0X6G-eWgQ8&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=81

#### One pass:

https://www.youtube.com/watch?v=jC\_cWLy7jSI&list=PLgUwDviBIf0p4ozDR\_kJJkO Nnb1wdx2Ma&index=82

# Sliding Window maximum

https://www.youtube.com/watch?v=CZQGRp93K4k&list=PLgUwDviBIf0p4ozDR\_kJJk ONnb1wdx2Ma&index=83

- Min Stack
- 7. Rotten Orange (Using BFS)
- Stock Span Problem
- 9. Find maximum of minimums of every window size
- 10. The Celebrity Problem

Day15: (String)

- 1. Reverse Words in a String
- 2. Longest Palindrome in a string
- 3. Roman Number to Integer and vice versa
- 4. Implement ATOI/STRSTR
- 5. Longest Common Prefix

6. Rabin Karp

#### Day16: (String)

- 1. Prefix Function/Z-Function
- 2. KMP algo / LPS(pi) array
- 3. Minimum characters needed to be inserted in the beginning to make it palindromic.
- 4. Check for Anagrams
- 5. Count and Say
- 6. Compare version numbers

#### Day17: (Binary Tree)

- Inorder Traversal (with recursion and without recursion)
- Preorder Traversal (with recursion and without recursion)
- 3. Postorder Traversal (with recursion and without recursion)
  - 4. LeftView Of Binary Tree
  - 5. Bottom View of Binary Tree
  - 6. Top View of Binary Tree

#### Day18: (Binary Tree)

- 1. Level order Traversal / Level order traversal in spiral form
- 2. Height of a Binary Tree
- 3. Diameter of Binary Tree
- 4. Check if Binary tree is height balanced or not
- 5. LCA in Binary Tree
- 6. Check if two trees are identical or not

#### Day 19: (Binary Tree)

- 1. Maximum path sum
- 2. Construct Binary Tree from inorder and preorder
- 3. Construct Binary Tree from Inorder and Postorder
- 4. Symmetric Binary Tree
- 5. Flatten Binary Tree to LinkedList
- 6. Check if Binary Tree is mirror of itself or not

#### Day 20: (Binary Search Tree)

- 1. Populate Next Right pointers of Tree
- 2. Search given Key in BST
- 3. Construct BST from given keys.
- 4. Check is a BT is BST or not
- 5. Find LCA of two nodes in BST
- 6. Find the inorder predecessor/successor of a given Key in BST.

#### Day21: (BinarySearchTree)

- 1. Floor and Ceil in a BST
- 2. Find K-th smallest and K-th largest element in BST (2 different Questions)

- 3. Find a pair with a given sum in BST
- 4. BST iterator
- 5. Size of the largest BST in a Binary Tree
- 6. Serialize and deserialize Binary Tree

## Day22: (Mixed Questions)

- 1. Binary Tree to Double Linked List
- 2. Find median in a stream of running integers.
- 3. K-th largest element in a stream.
- 4. Distinct numbers in Window.
- 5. K-th largest element in an unsorted array.
- 6. Flood-fill Algorithm

#### Day23: (Graph)

https://www.youtube.com/watch?v=LCrovIMurxY&list=PLgUwDviBIf0rGEWe64KWas0Nryn7 SCRWw&index=2

- 1. Clone a graph (Not that easy as it looks)
- 2. DFS
- 3. BFS
- 4. Detect A cycle in Undirected Graph/Directed Graph
- 5. Topo Sort
- 6. Number of islands (Do in Grid and Graph both)
- 7. Bipartite Check

#### Day24: (Graph)

https://www.youtube.com/watch?v=LCrovIMurxY&list=PLgUwDviBIf0rGEWe64KWas0Nryn7 SCRWw&index=2

- 1. SCC(using KosaRaju's algo)
- 2. Djisktra's Algorithm
- 3. Bellman Ford Algo
- 4. Floyd Warshall Algorithm
- 5. MST using Prim's Algo
- 6. MST using Kruskal's Algo

#### Day25: (Dynamic Programming)

- 1. Max Product Subarray
- 2. Longest Increasing Subsequence
- 3. Longest Common Subsequence
- 4. 0-1 Knapsack
- 5. Edit Distance
- 6. Maximum sum increasing subsequence
- 7. Matrix Chain Multiplication

Day26: (DP)

- 1. Maximum sum path in matrix, (count paths, and similar type do, also backtrack to find the maximum path)
- 2. Coin change
- 3. Subset Sum
- 4. Rod Cutting
- 5. Egg Dropping
- 6. Word Break
- 7. Palindrome Partitioning (MCM Variation)
- 8. Maximum profit in Job scheduling

https://docs.google.com/document/d/1sQIRDw6--HwyxeFL7b4kBsOG-Tz7rXMbpWNnfvJErA4/edit (For core revision)

#### Day27:

- 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.

#### Day28:

- 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.

## Day29:

- 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.

#### Day30:

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.

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