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Adding the credits above as a lot of people were sharing this pdf without giving credits.

Day1: (Arrays) --------- **DONE-------------**

1. Find the duplicate in an array of N integers.
2. Sort an array of 0’s 1’s 2’s without using extra space or sorting algo
3. Repeat and Missing Number
4. Merge two sorted Arrays without extra space
5. Kadane’s Algorithm
6. Merge Overlapping Subintervals

Day2: (Arrays) **---------DIFFICULT-------**

1. Set Matrix Zeros
2. Pascal Triangle
3. Next Permutation
4. Inversion of Array (Using Merge Sort)
5. Stock Buy and Sell
6. Rotate Matrix

Day3: (Math)

1. Excel Column Number
2. Find n^x in log N
3. Count trailing zeros in factorial of a number
4. Find GCD in Log N
5. Grid Unique Paths
6. Go through Puzzles from GFG (Search on own)

Day4: (Hashing)

1. 2 Sum problem
2. 4 Sum problem
3. Longest Consecutive Sequence
4. Longest Subarray with 0 sum
5. Count number of subarrays with given XOR(this clears a lot of problems)
6. Longest substring without repeat

Day5: (LinkedList)

1. Reverse a LinkedList
2. Find middle of LinkedList
3. Merge two sorted Linked List
4. Remove N-th node from back of LinkedList
5. Delete a given Node when a node is given. (0(1) solution)
6. Add two numbers as LinkedList

Day6:

1. Find intersection point of Y LinkedList
2. Check if a LinkedList is palindrome or not.
3. Reverse a LinkedList in groups.
4. Detect a cycle and removing loop(two different questions and same concept)
5. Flattening of a LinkedList
6. Rotate a LinkedList
7. Clone a Linked List with random and next pointer.

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Day7: (2-pointer)

1. Merge two sorted LinkedLists
2. Find the starting point of the loop.
3. 3 sum
4. Trapping rainwater
5. Remove Duplicate from Sorted array
6. Max continuous number of 1’s

Day8: (Greedy)

1. N meeting in one room
2. Activity Selection
3. Greedy algorithm to find minimum number of coins
4. Fractional Knapsack Problem
5. Minimum number of platforms required for a railway
6. Job sequencing Problem

Day9: (Backtracking)

1. N queens Problem
2. Sudoko
3. M coloring Problem
4. Rat in a Maze
5. Print all Permutations of a string/array
6. Word Break (print all ways)

Day10:

1. Combination sum-1
2. Combination sum-2
3. Palindrome Partioning
4. Subset Sum-1
5. Subset Sum-2
6. K-th permutation Sequence

Day11: (Divide and Conquer)

1. 1/N-th root of an integer (use binary search) (square root, cube root, ..)
2. Matrix Median
3. Find the element that appears once in sorted array, and rest element appears twice (Binary search)
4. Search element in a sorted and rotated array.
5. K-th element of two sorted arrays
6. Media of an array

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)
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 / Implement Queue
2. BFS
3. Implement Stack using Queue
4. Implement Queue using Stack
5. Check for balanced parentheses
6. Next Greater Element

Day14:

1. Next Smaller Element
2. LRU cache (vvvv. imp)
3. Largest rectangle in histogram
4. Sliding Window maximum
5. Implement Min Stack
6. Rotten Orange (Using BFS)

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
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)

1. Inorder Traversal (with recursion and without recursion)
2. 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)

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)

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)

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.