Day: 1 (Anmol): [07-03-2023]

- Programming fundamentals & Elements of a Program
- Basic data types: - Arithmetic, Logical and Assignment operators

Day: 2 (Anmol): [09-03-2023]

- Taking inputs
- Data types and their variations (long, double etc)
- Loops
- Functions, user defined and inbuilt
- Integer overflow

Day: 3 (Tyagi): [11-03-2023]

- Introduction to Data structure and Algorithm
- Arrays, String and Matrix

Day: 4 (Anmol): [16-03-2023]

- Stacks and Queues
- Stack and Queue STL
- Structs, Class

Day: 5 (Tyagi): [18-03-2023]

- LinkedList
- Pointers

Day: 6 (Tyagi): [19-03-2023]

- Introduction to analysis of algorithms
- Lambda
- Sorting algorithms
    - Selection sort
    - Bubble sort
    - Insertion sort

Day: 7 (Anmol): [21-03-2023]

- sort(), find()
- Searching algorithms
    - Linear search
    - Binary search

Day: 8 (Anmol): [23-03-2023]

- Recursion - 1: Basic idea, Recursion call stack
- Recursion - 2: Leap of faith approach towards recursion

Day: 9 (Tyagi): [25-03-2023]

- Merge sort and Quick sort

Day: 10 (Tyagi): [26-03-2023]

- Trees, Binary Tree
- Sets and Maps (ordered and unordered)
- Binary Search Trees (BST) and Balanced BST

Day: 11 (Tyagi): [28-03-2023]

- Hash Tables
- unordered_map, unordered_set

Day: 12 (Tyagi): [30-03-2023]

- Bit Manipulation

Day: 13 (Tyagi): [01-04-2023]

- Introduction to graphs

Day: 14 (Anmol): [04-04-2023]

- Backtracking, solving sudoku

Day: 15 (Anmol): [11-04-2023]

- Greedy Algorithms

TEST - MID

Day: 16 (Anmol): [13-04-2023]

- Introduction to Dynamic Programming

Day: 17 (Anmol): [15-04-2023]

- Sliding Window - Two pointers

Day: 18 (Tyagi): [16-04-2023]

- Problem set: 1 - 10/12 Easy level DSA problems

Day: 19 (Tyagi): [18-04-2023]

- Problem set: 2 - 7/8 Medium level DSA Problems

Day: 20 (Anmol): [20-04-2023]

- Problem set: 3 - 3/4 Hard level DSA Problems

TEST - END
