20) Backtracking

- **Concepts of Backtracking**
- **Rat In a Maze**
- **N Queen Problem**
- **Sudoku Problem**
- **Practice Problems**
    - This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

21) Dynamic Programming

- **Introduction**
- **Dynamic Programming**
    - Memoization
    - Tabulation
- **Problems(With Video Solutions):**
    - Longest Common Subsequence
    - Coin Change Count Combinations
    - Edit Distance Problem
        - Naive Approach
        - DP Approach
    - Longest Increasing Subsequence Problem
        - Naive Approach
        - Efficient Approach
    - Maximum Cuts
    - Minimum coins to make a value
    - Minimum Jumps to reach at the end
    - 0-1 knapsack problem
        - Naive Approach
        - Efficient Approach
    - Optimal Strategy for a Game
    - Variation of Longest Common Subsequence
    - Variation of Longest Increasing Subsequence
    - Egg Dropping Problem
    - Count BST with nkeys
    - Maximum Sum with No Consecutive
    - Subset Sum Problem

    - Matrix Chain Multiplication
    - Palindrome Parititioning
- **Practice Problems**
    - This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

22) Trie

- **Introduction**
    - Representation
    - Search
    - Insert
    - Delete
- **Count Distinct Rows in a Binary Matrix**
- **Practice Problems**
    - This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

23) Segment Tree

- **Introduction**
- **Construction**
- **Range Query**
- **Update Query**
- **Practice Problems**
    - This track contains many practice problems for the users which are considered important and must-do as far as Data Structure and Algorithm is concerned.

24) Disjoint Set

- **Introduction**
- **Find and Union Operations**
- **Union by Rank**
- **Path Compression**