Accordion Item 1:

Step 1 : Learn the basics

0 / 31

Lec 1: Things to Know in C++/Java/Python or any language

0 / 9

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

User Input / Output

Solve

-

Easy

Data Types

Solve

-

-

Easy

If Else statements

Solve

-

Easy

Switch Statement

Solve

-

Easy

What are arrays, strings?

Solve

-

-

Easy

For loops

Solve

-

Easy

While loops

Solve

-

Easy

Functions (Pass by Reference and Value)

Solve

-

-

Easy

Time Complexity [Learn Basics, and then analyse in next Steps]

-

-

Easy

Lec 2: Build-up Logical Thinking

0 / 1

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Patterns

Solve

-

Easy

Lec 3: Learn STL/Java-Collections or similar thing in your language

0 / 2

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

C++ STL

-

-

Medium

Java Collections

-

-

-

Easy

Lec 4: Know Basic Maths

0 / 7

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Count Digits

Solve

-

Easy

Reverse a Number

Solve

Easy

Check Palindrome

Solve

Easy

GCD Or HCF

Solve

-

Easy

Armstrong Numbers

Solve

Easy

Print all Divisors

Solve

-

Easy

Check for Prime

Solve

-

Easy

Lec 5: Learn Basic Recursion

0 / 9

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Understand recursion by print something N times

-

-

Easy

Print name N times using recursion

-

-

Easy

Print 1 to N using recursion

-

-

Easy

Print N to 1 using recursion

-

-

Easy

Sum of first N numbers

Solve

-

Easy

Factorial of N numbers

Solve

-

Easy

Reverse an array

Solve

-

Easy

Check if a string is palindrome or not

Solve

Medium

Fibonacci Number

Solve

Easy

Lec 6: Learn Basic Hashing

0 / 3

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Hashing Theory

-

-

Medium

Counting frequencies of array elements

-

-

-

Easy

Find the highest/lowest frequency element

Solve

-

Easy

Accordion Item 2:

Step 2 : Learn Important Sorting Techniques

0 / 7

Lec 1: Sorting-I

0 / 3

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Selection Sort

Solve

-

Easy

Bubble Sort

Solve

-

Easy

Insertion Sort

Solve

-

Easy

Lec 2: Sorting-II

0 / 4

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Merge Sort

Solve

-

Medium

Recursive Bubble Sort

-

-

-

-

Easy

Recursive Insertion Sort

-

-

-

-

Easy

Quick Sort

Solve

-

Easy

Accordion Item 3:

Step 3 : Solve Problems on Arrays [Easy -> Medium -> Hard]

0 / 40

Lec 1: Easy

0 / 14

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Largest Element in an Array

Solve

-

Easy

Second Largest Element in an Array without sorting

Solve

-

Easy

Check if the array is sorted

Solve

Easy

Remove duplicates from Sorted array

Solve

Easy

Left Rotate an array by one place

Solve

Easy

Left rotate an array by D places

Solve

Easy

Move Zeros to end

Solve

Easy

Linear Search

Solve

-

Easy

Find the Union

Solve

-

Medium

Find missing number in an array

Solve

Easy

Maximum Consecutive Ones

Solve

Easy

Find the number that appears once, and other numbers twice.

Solve

Medium

Longest subarray with given sum K(positives)

Solve

-

Medium

Longest subarray with sum K (Positives + Negatives)

Solve

-

Medium

Lec 2: Medium

0 / 14

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

2Sum Problem

Solve

Medium

Sort an array of 0's 1's and 2's

Solve

Medium

Majority Element (>n/2 times)

Solve

Easy

Kadane's Algorithm, maximum subarray sum

Solve

Easy

Print subarray with maximum subarray sum (extended version of above problem)

Solve

-

Medium

Stock Buy and Sell

Solve

Easy

Rearrange the array in alternating positive and negative items

Solve

Medium

Next Permutation

-

-

Medium

Leaders in an Array problem

Solve

-

Easy

Longest Consecutive Sequence in an Array

Solve

Medium

Set Matrix Zeros

-

-

Medium

Rotate Matrix by 90 degrees

Solve

Medium

Print the matrix in spiral manner

Solve

Medium

Count subarrays with given sum

Solve

Easy

Lec 3: Hard

0 / 12

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Pascal's Triangle

Solve

Medium

Majority Element (n/3 times)

Solve

Medium

3-Sum Problem

Solve

Medium

4-Sum Problem

Solve

Hard

Largest Subarray with 0 Sum

-

-

-

Medium

Count number of subarrays with given xor K

Solve

-

Hard

Merge Overlapping Subintervals

-

-

Medium

Merge two sorted arrays without extra space

Solve

Medium

Find the repeating and missing number

Solve

-

Hard

Count Inversions

Solve

-

Hard

Reverse Pairs

Solve

Hard

Maximum Product Subarray

Solve

Easy

Accordion Item 4:

Step 4 : Binary Search [1D, 2D Arrays, Search Space]

0 / 32

Lec 1: BS on 1D Arrays

0 / 13

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Binary Search to find X in sorted array

Solve

Easy

Implement Lower Bound

Solve

-

Easy

Implement Upper Bound

Solve

-

Easy

Search Insert Position

Solve

Easy

Floor/Ceil in Sorted Array

Solve

-

Medium

Find the first or last occurrence of a given number in a sorted array

Solve

Easy

Count occurrences of a number in a sorted array with duplicates

-

-

-

Easy

Search in Rotated Sorted Array I

Solve

Medium

Search in Rotated Sorted Array II

Solve

Medium

Find minimum in Rotated Sorted Array

Solve

Medium

Find out how many times has an array been rotated

Solve

-

Easy

Single element in a Sorted Array

Solve

Easy

Find peak element

Solve

Hard

Lec 2: BS on Answers

0 / 14

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Find square root of a number in log n

Solve

-

Medium

Find the Nth root of a number using binary search

Solve

-

Medium

Koko Eating Bananas

Solve

Hard

Minimum days to make M bouquets

Solve

Hard

Find the smallest Divisor

Solve

Easy

Capacity to Ship Packages within D Days

-

-

Hard

Kth Missing Positive Number

-

-

Easy

Aggressive Cows

Solve

-

Hard

Book Allocation Problem

Solve

-

Hard

Split array - Largest Sum

Solve

Hard

Painter's partition

-

-

-

Hard

Minimize Max Distance to Gas Station

Solve

Hard

Median of 2 sorted arrays

Solve

Hard

Kth element of 2 sorted arrays

Solve

-

Medium

Lec 3: BS on 2D Arrays

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Find the row with maximum number of 1's

Solve

-

Easy

Search in a 2 D matrix

Solve

Medium

Search in a row and column wise sorted matrix

Solve

Medium

Find Peak Element (2D Matrix)

Solve

-

Hard

Matrix Median

Solve

-

Hard

Accordion Item 5:

Step 5 : Strings [Basic and Medium]

0 / 15

Lec 1: Basic and Easy String Problems

0 / 7

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Remove outermost Paranthesis

-

-

-

Easy

Reverse words in a given string / Palindrome Check

Solve

-

Easy

Largest odd number in a string

Solve

-

Easy

Longest Common Prefix

Solve

-

Easy

Isomorphic String

Solve

-

Easy

check whether one string is a rotation of another

Solve

-

Medium

Check if two strings are anagram of each other

Solve

-

Medium

Lec 2: Medium String Problems

0 / 8

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Sort Characters by frequency

Solve

-

Easy

Maximum Nesting Depth of Paranthesis

-

-

-

Easy

Roman Number to Integer and vice versa

-

-

-

Easy

Implement Atoi

-

-

-

Medium

Count Number of Substrings

-

-

-

-

Medium

Longest Palindromic Substring[Do it without DP]

-

-

-

Hard

Sum of Beauty of all substring

-

-

-

Medium

Reverse Every Word in A String

Solve

-

Easy

Accordion Item 6:

Step 6 : Learn LinkedList [Single LL, Double LL, Medium, Hard Problems]

0 / 31

Lec 1: Learn 1D LinkedList

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Introduction to LinkedList, learn about struct, and how is node represented

-

-

Easy

Inserting a node in LinkedList

Solve

-

Easy

Deleting a node in LinkedList

Solve

Medium

Find the length of the linkedlist [learn traversal]

-

-

-

Easy

Search an element in the LL

-

-

-

Easy

Lec 2: Learn Doubly LinkedList

0 / 4

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Introduction to DLL, learn about struct, and how is node represented

Solve

-

Easy

Insert a node in DLL

Solve

-

Easy

Delete a node in DLL

Solve

-

Medium

Reverse a DLL

-

-

-

Medium

Lec 3: Medium Problems of LL

0 / 15

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Middle of a LinkedList [TortoiseHare Method]

Solve

Easy

Reverse a LinkedList [Iterative]

Solve

Easy

Reverse a LL [Recursive]

Solve

Easy

Detect a loop in LL

Solve

Medium

Find the starting point in LL

Solve

Medium

Length of Loop in LL

Solve

-

Easy

Check if LL is palindrome or not

Solve

Medium

Segrregate odd and even nodes in LL

Solve

Medium

Remove Nth node from the back of the LL

Solve

Medium

Delete the middle node of LL

Solve

Medium

Sort LL

Solve

Medium

Sort a LL of 0's 1's and 2's by changing links

Solve

-

-

Medium

Find the intersection point of Y LL

Solve

Medium

Add 1 to a number represented by LL

Solve

-

-

Medium

Add 2 numbers in LL

Solve

Medium

Lec 4: Medium Problems of DLL

0 / 3

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Delete all occurrences of a key in DLL

Solve

-

-

Medium

Find pairs with given sum in DLL

-

-

-

-

Medium

Remove duplicates from sorted DLL

Solve

-

-

Medium

Lec 5: Hard Problems of LL

0 / 4

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Reverse LL in group of given size K

Solve

Hard

Rotate a LL

Solve

Medium

Flattening of LL

Solve

-

Hard

Clone a Linked List with random and next pointer

Solve

Hard

Accordion Item 7:

Step 7 : Recursion [PatternWise]

0 / 25

Lec 1: Get a Strong Hold

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Recursive Implementation of atoi()

-

-

-

Hard

Pow(x, n)

Solve

Medium

Count Good numbers

-

-

-

Easy

Sort a stack using recursion

-

-

-

-

Medium

Reverse a stack using recursion

-

-

-

-

Easy

Lec 2: Subsequences Pattern

0 / 12

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Generate all binary strings

-

-

-

-

Medium

Generate Paranthesis

Solve

-

Medium

Print all subsequences/Power Set

Solve

Medium

Learn All Patterns of Subsequences (Theory)

-

-

-

-

Medium

Count all subsequences with sum K

Solve

-

-

Hard

Check if there exists a subsequence with sum K

Solve

-

-

Medium

Combination Sum

Solve

Medium

Combination Sum-II

Solve

Medium

Subset Sum-I

Solve

-

Medium

Subset Sum-II

Solve

Medium

Combination Sum - III

Solve

-

Hard

Letter Combinations of a Phone number

Solve

-

Medium

Lec 3: Trying out all Combos / Hard

0 / 8

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Palindrome Partitioning

Solve

Medium

Word Search

Solve

-

Medium

N Queen

Solve

Hard

Rat in a Maze

Solve

-

Hard

Word Break

-

-

-

M Coloring Problem

Solve

-

Hard

Sudoko Solver

Solve

Hard

Expression Add Operators

-

-

-

Hard

Accordion Item 8:

Step 8 : Bit Manipulation [Concepts & Problems]

0 / 18

Lec 1: Learn Bit Manipulation

0 / 8

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Introduction to Bit Manipulation [Theory]

Solve

-

-

Easy

Check if the i-th bit is set or not

-

-

-

Easy

Check if a number is odd or not

-

-

-

Easy

Check if a number is power of 2 or not

-

-

Easy

Count the number of set bits

-

-

-

Easy

Set/Unset the rightmost unset bit

-

-

-

Easy

Swap two numbers

-

-

-

Easy

Divide two integers without using multiplication, division and mod operator

Solve

-

Medium

Lec 2: Interview Problems

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Count number of bits to be flipped to convert A to B

Solve

-

Medium

Find the number that appears odd number of times

Solve

-

Easy

Power Set

Solve

-

Medium

Find xor of numbers from L to R

Solve

-

-

Easy

Find the two numbers appearing odd number of times

Solve

-

-

Easy

Lec 3: Advanced Maths

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Print Prime Factors of a Number

-

-

-

-

Easy

All Divisors of a Number

Solve

-

-

Easy

Sieve of Eratosthenes

Solve

-

Medium

Find Prime Factorisation of a Number using Sieve

Solve

-

-

Medium

Power(n, x)

Solve

-

Medium

Accordion Item 9:

Step 9 : Stack and Queues [Learning, Pre-In-Post-fix, Monotonic Stack, Implementation]

0 / 30

Lec 1: Learning

0 / 8

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Implement Stack using Arrays

Solve

-

Easy

Implement Queue using Arrays

Solve

-

Easy

Implement Stack using Queue

Solve

Medium

Implement Queue using Stack

Solve

Medium

Implement stack using Linkedlist

Solve

-

Easy

Implement queue using Linkedlist

Solve

-

Medium

Check for balanced paranthesis

Solve

Medium

Implement Min Stack

Solve

Medium

Lec 2: Prefix, Infix, PostFix Conversion Problems

0 / 6

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Infix to Postfix Conversion using Stack

-

-

-

Medium

Prefix to Infix Conversion

-

-

-

-

Medium

Prefix to Postfix Conversion

-

-

-

-

Medium

Postfix to Prefix Conversion

-

-

-

-

Medium

Postfix to Infix

-

-

-

-

Medium

Convert Infix To Prefix Notation

-

-

-

Medium

Lec 3: Monotonic Stack/Queue Problems [VVV. Imp]

0 / 11

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Next Greater Element

Solve

Easy

Next Greater Element 2

Solve

-

Medium

Next Smaller Element

-

-

-

-

Easy

Number of NGEs to the right

-

-

-

-

Easy

Trapping Rainwater

Solve

Hard

Sum of subarray minimum

Solve

-

Medium

Asteroid Collision

Solve

-

Medium

Sum of subarray ranges

Solve

-

Medium

Remove k Digits

Solve

-

Medium

Largest rectangle in a histogram

Solve

Medium

Maximal Rectangles

Solve

-

Hard

Lec 4: Implementation Problems

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Sliding Window maximum

Solve

Hard

Stock span problem

Solve

-

Medium

The Celebrity Problem

Solve

-

Hard

LRU cache (IMPORTANT)

Solve

Hard

LFU cache

Solve

-

Hard

Accordion Item 10:

Step 10 : Sliding Window & Two Pointer Combined Problems

0 / 12

Lec 1: Medium Problems

0 / 8

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Longest Substring Without Repeating Characters

Solve

Medium

Max Consecutive Ones III

Solve

-

Medium

Fruit Into Baskets

Solve

-

-

Medium

longest repeating character replacement

Solve

-

Medium

Binary subarray with sum

Solve

-

Easy

Count number of nice subarrays

Solve

-

Medium

Number of substring containing all three characters

Solve

-

Medium

Maximum point you can obtain from cards

Solve

-

Medium

Lec 2: Hard Problems

0 / 4

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Longest Substring with At Most K Distinct Characters

Solve

-

Medium

Subarray with k different integers

-

-

-

Hard

Minimum Window Substring

Solve

-

Hard

Minimum Window Subsequence

-

-

-

Hard

Accordion Item 11:

Step 11 : Heaps [Learning, Medium, Hard Problems]

0 / 17

Lec 1: Learning

0 / 4

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Introduction to Priority Queues using Binary Heaps

-

-

-

Medium

Min Heap and Max Heap Implementation

Solve

-

-

Medium

Check if an array represents a min-heap or not

Solve

-

-

Medium

Convert min Heap to max Heap

Solve

-

-

Medium

Lec 2: Medium Problems

0 / 7

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Kth largest element in an array [use priority queue]

Solve

-

Easy

Kth smallest element in an array [use priority queue]

-

-

-

-

Easy

Sort K sorted array

-

-

-

-

Easy

Merge M sorted Lists

-

-

-

Hard

Replace each array element by its corresponding rank

-

-

-

-

Easy

Task Scheduler

-

-

-

Medium

Hands of Straights

-

-

-

Medium

Lec 3: Hard Problems

0 / 6

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Design twitter

-

-

-

Medium

Connect `n` ropes with minimal cost

-

-

-

-

Medium

Kth largest element in a stream of running integers

Solve

-

Easy

Maximum Sum Combination

-

-

-

-

Medium

Find Median from Data Stream

-

-

-

Hard

K most frequent elements

-

-

-

Medium

Accordion Item 12:

Step 12 : Greedy Algorithms [Easy, Medium/Hard]

0 / 16

Lec 1: Easy Problems

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Assign Cookies

Solve

Easy

Fractional Knapsack Problem

-

-

-

Medium

Greedy algorithm to find minimum number of coins

-

-

-

Medium

Lemonade Change

Solve

Easy

Valid Paranthesis Checker

Solve

-

Medium

Lec 2: Medium/Hard

0 / 11

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

N meetings in one room

Solve

-

Medium

Jump Game

Solve

Medium

Jump Game 2

-

-

-

Medium

Minimum number of platforms required for a railway

Solve

-

Medium

Job sequencing Problem

Solve

-

Medium

Candy

Solve

-

Hard

Program for Shortest Job First (or SJF) CPU Scheduling

Solve

-

Medium

Program for Least Recently Used (LRU) Page Replacement Algorithm

-

-

-

-

Medium

Insert Interval

Solve

Medium

Merge Intervals

-

-

Medium

Non-overlapping Intervals

Solve

-

Medium

Accordion Item 13:

Step 13 : Binary Trees [Traversals, Medium and Hard Problems]

0 / 39

Lec 1: Traversals

0 / 13

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Introduction to Trees

-

-

Easy

Binary Tree Representation in C++

-

-

Easy

Binary Tree Representation in Java

-

-

Easy

Binary Tree Traversals in Binary Tree

-

-

-

Easy

Preorder Traversal of Binary Tree

Solve

Easy

Inorder Traversal of Binary Tree

Solve

Easy

Post-order Traversal of Binary Tree

Solve

Easy

Level order Traversal / Level order traversal in spiral form

Solve

Easy

Iterative Preorder Traversal of Binary Tree

Solve

Easy

Iterative Inorder Traversal of Binary Tree

Solve

Easy

Post-order Traversal of Binary Tree using 2 stack

Solve

Easy

Post-order Traversal of Binary Tree using 1 stack

Solve

Medium

Preorder, Inorder, and Postorder Traversal in one Traversal

Solve

-

Medium

Lec 2: Medium Problems

0 / 12

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Height of a Binary Tree

Solve

Medium

Check if the Binary tree is height-balanced or not

Solve

Medium

Diameter of Binary Tree

Solve

Medium

Maximum path sum

Solve

Hard

Check if two trees are identical or not

Solve

Medium

Zig Zag Traversal of Binary Tree

Solve

Easy

Boundary Traversal of Binary Tree

Solve

Medium

Vertical Order Traversal of Binary Tree

Solve

Easy

Top View of Binary Tree

Solve

-

Easy

Bottom View of Binary Tree

Solve

-

Medium

Right/Left View of Binary Tree

Solve

Medium

Symmetric Binary Tree

Solve

Medium

Lec 3: Hard Problems

0 / 14

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Root to Node Path in Binary Tree

Solve

-

Medium

LCA in Binary Tree

Solve

Medium

Maximum width of a Binary Tree

Solve

Medium

Check for Children Sum Property

-

-

-

Hard

Print all the Nodes at a distance of K in a Binary Tree

Solve

-

Medium

Minimum time taken to BURN the Binary Tree from a Node

Solve

-

-

Hard

Count total Nodes in a COMPLETE Binary Tree

Solve

Medium

Requirements needed to construct a Unique Binary Tree | Theory

Solve

-

-

Medium

Construct Binary Tree from inorder and preorder

Solve

Hard

Construct the Binary Tree from Postorder and Inorder Traversal

Solve

Hard

Serialize and deserialize Binary Tree

Solve

Hard

Morris Preorder Traversal of a Binary Tree

Solve

Medium

Morris Inorder Traversal of a Binary Tree

Solve

Medium

Flatten Binary Tree to LinkedList

-

-

Hard

Accordion Item 14:

Step 14 : Binary Search Trees [Concept and Problems]

0 / 16

Lec 1: Concepts

0 / 3

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Introduction to Binary Search Tree

-

-

Easy

Search in a Binary Search Tree

Solve

Easy

Find Min/Max in BST

-

-

-

-

Medium

Lec 2: Practice Problems

0 / 13

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Ceil in a Binary Search Tree

Solve

-

Easy

Floor in a Binary Search Tree

Solve

-

Easy

Insert a given Node in Binary Search Tree

Solve

-

Easy

Delete a Node in Binary Search Tree

Solve

-

Medium

Find K-th smallest/largest element in BST

Solve

Medium

Check if a tree is a BST or BT

Solve

-

Medium

LCA in Binary Search Tree

Solve

-

Medium

Construct a BST from a preorder traversal

Solve

-

Medium

Inorder Successor/Predecessor in BST

Solve

-

Medium

Merge 2 BST's

Solve

-

Hard

Two Sum In BST | Check if there exists a pair with Sum K

Solve

-

Medium

Recover BST | Correct BST with two nodes swapped

Solve

-

Hard

Largest BST in Binary Tree

Solve

-

-

Hard

Accordion Item 15:

Step 15 : Graphs [Concepts & Problems]

0 / 54

Lec 1: Learning

0 / 6

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Graph and Types

-

-

Easy

Graph Representation | C++

-

-

Easy

Graph Representation | Java

-

-

-

Easy

Connected Components | Logic Explanation

Solve

Hard

BFS

Solve

-

Medium

DFS

Solve

-

Hard

Lec 2: Problems on BFS/DFS

0 / 14

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Number of provinces (leetcode)

Solve

Medium

Connected Components Problem in Matrix

-

-

-

-

Hard

Rotten Oranges

Solve

Medium

Flood fill

Solve

Hard

Cycle Detection in unirected Graph (bfs)

Solve

-

Hard

Cycle Detection in undirected Graph (dfs)

Solve

-

Hard

0/1 Matrix (Bfs Problem)

Solve

Medium

Surrounded Regions (dfs)

Solve

Hard

Number of Enclaves [flood fill implementation - multisource]

Solve

Hard

Word ladder - 1

Solve

Hard

Word ladder - 2

Solve

Hard

Number of Distinct Islands [dfs multisource]

Solve

Hard

Bipartite Graph (DFS)

Solve

Medium

Cycle Detection in Directed Graph (DFS)

Solve

Hard

Lec 3: Topo Sort and Problems

0 / 7

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Topo Sort

Solve

-

Hard

Kahn's Algorithm

Solve

-

Hard

Cycle Detection in Directed Graph (BFS)

Solve

-

-

Hard

Course Schedule - I

Solve

Hard

Course Schedule - II

Solve

Hard

Find eventual safe states

Solve

Hard

Alien dictionary

Solve

Hard

Lec 4: Shortest Path Algorithms and Problems

0 / 13

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Shortest Path in UG with unit weights

Solve

-

Hard

Shortest Path in DAG

Solve

-

Hard

Djisktra's Algorithm

Solve

-

Hard

Why priority Queue is used in Djisktra's Algorithm

Solve

-

Medium

Shortest path in a binary maze

Solve

Medium

Path with minimum effort

Solve

Medium

Cheapest flights within k stops

Solve

Hard

Network Delay time

-

-

-

Medium

Number of ways to arrive at destination

Solve

Medium

Minimum steps to reach end from start by performing multiplication and mod operations with array elements

Solve

-

Hard

Bellman Ford Algorithm

Solve

-

Hard

Floyd Warshal Algorithm

Solve

-

Hard

Find the city with the smallest number of neighbors in a threshold distance

Solve

Hard

Lec 5: MinimumSpanningTree/Disjoint Set and Problems

0 / 11

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Minimum Spanning Tree

Solve

-

Hard

Prim's Algorithm

Solve

-

Hard

Disjoint Set [Union by Rank]

Solve

-

Hard

Disjoint Set [Union by Size]

Solve

-

Hard

Kruskal's Algorithm

Solve

-

Hard

Number of operations to make network connected

Solve

Medium

Most stones removed with same rows or columns

Solve

Medium

Accounts merge

Solve

Hard

Number of island II

Solve

Hard

Making a Large Island

Solve

Hard

Swim in rising water

-

-

-

Hard

Lec 6: Other Algorithms

0 / 3

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Bridges in Graph

Solve

Hard

Articulation Point

Solve

-

Hard

Kosaraju's Algorithm

Solve

-

Hard

Accordion Item 16:

Step 16 : Dynamic Programming [Patterns and Problems]

0 / 56

Lec 1: Introduction to DP

0 / 1

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Dynamic Programming Introduction

Solve

-

Medium

Lec 2: 1D DP

0 / 5

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Climbing Stars

Solve

Medium

Frog Jump(DP-3)

Solve

-

Medium

Frog Jump with k distances(DP-4)

Solve

-

Medium

Maximum sum of non-adjacent elements (DP 5)

Solve

Medium

House Robber (DP 6)

Solve

Medium

Lec 3: 2D/3D DP and DP on Grids

0 / 7

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Ninja's Training (DP 7)

Solve

-

Medium

Grid Unique Paths : DP on Grids (DP8)

Solve

Medium

Grid Unique Paths 2 (DP 9)

Solve

Medium

Minimum path sum in Grid (DP 10)

Solve

Medium

Minimum path sum in Triangular Grid (DP 11)

Solve

Medium

Minimum/Maximum Falling Path Sum (DP-12)

-

-

Medium

3-d DP : Ninja and his friends (DP-13)

-

-

-

Medium

Lec 4: DP on Subsequences

0 / 11

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Subset sum equal to target (DP- 14)

Solve

-

Medium

Partition Equal Subset Sum (DP- 15)

Solve

Medium

Partition Set Into 2 Subsets With Min Absolute Sum Diff (DP- 16)

Solve

Medium

Count Subsets with Sum K (DP - 17)

Solve

-

Medium

Count Partitions with Given Difference (DP - 18)

Solve

-

Medium

Assign Cookies

Solve

-

Hard

Minimum Coins (DP - 20)

Solve

Hard

Target Sum (DP - 21)

Solve

Medium

Coin Change 2 (DP - 22)

Solve

Hard

Unbounded Knapsack (DP - 23)

Solve

-

Hard

Rod Cutting Problem | (DP - 24)

Solve

-

Hard

Lec 5: DP on Strings

0 / 10

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Longest Common Subsequence | (DP - 25)

-

-

Hard

Print Longest Common Subsequence | (DP - 26)

-

-

-

Hard

Longest Common Substring | (DP - 27)

Solve

-

Hard

Longest Palindromic Subsequence | (DP-28)

Solve

Hard

Minimum insertions to make string palindrome | DP-29

Solve

Hard

Minimum Insertions/Deletions to Convert String | (DP- 30)

Solve

Hard

Shortest Common Supersequence | (DP - 31)

Solve

Hard

Distinct Subsequences| (DP-32)

Solve

Hard

Edit Distance | (DP-33)

Solve

Hard

Wildcard Matching | (DP-34)

Solve

Medium

Lec 6: DP on Stocks

0 / 6

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Best Time to Buy and Sell Stock |(DP-35)

Solve

Hard

Buy and Sell Stock - II|(DP-36)

Solve

Hard

Buy and Sell Stocks III|(DP-37)

Solve

Hard

Buy and Stock Sell IV |(DP-38)

Solve

Hard

Buy and Sell Stocks With Cooldown|(DP-39)

-

-

Hard

Buy and Sell Stocks With Transaction Fee|(DP-40)

Solve

Hard

Lec 7: DP on LIS

0 / 7

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Longest Increasing Subsequence |(DP-41)

Solve

Hard

Printing Longest Increasing Subsequence|(DP-42)

Solve

-

Hard

Longest Increasing Subsequence |(DP-43)

Solve

-

Hard

Largest Divisible Subset|(DP-44)

Solve

Hard

Longest String Chain|(DP-45)

Solve

Hard

Longest Bitonic Subsequence |(DP-46)

Solve

-

Hard

Number of Longest Increasing Subsequences|(DP-47)

Solve

Hard

Lec 8: MCM DP | Partition DP

0 / 7

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Matrix Chain Multiplication|(DP-48)

Solve

-

Hard

Matrix Chain Multiplication | Bottom-Up|(DP-49)

Solve

-

Hard

Minimum Cost to Cut the Stick|(DP-50)

Solve

Hard

Burst Balloons|(DP-51)

Solve

Hard

Evaluate Boolean Expression to True|(DP-52)

-

-

Hard

Palindrome Partitioning - II|(DP-53)

Solve

Hard

Partition Array for Maximum Sum|(DP-54)

-

-

Hard

Lec 9: DP on Squares

0 / 2

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Maximum Rectangle Area with all 1's|(DP-55)

-

-

Hard

Count Square Submatrices with All Ones|(DP-56)

-

-

Hard

Accordion Item 17:

Step 17 : Tries

0 / 7

Lec 1: Theory

0 / 1

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Implement TRIE | INSERT | SEARCH | STARTSWITH

Solve

Hard

Lec 2: Problems

0 / 6

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Implement Trie - 2 (Prefix Tree)

Solve

-

-

Hard

Longest String with All Prefixes

Solve

-

-

Medium

Number of Distinct Substrings in a String

Solve

-

Hard

Bit PreRequisites for TRIE Problems

-

-

-

-

Hard

Maximum XOR of two numbers in an array

Solve

Medium

Maximum XOR With an Element From Array

Solve

Hard

Accordion Item 18:

Step 18 : Strings

0 / 9

Lec 1: Hard Problems

0 / 9

Status

Problem

Resource

(Plus)

Resource

(Free)

Practice

Note

Revision

Difficulty

Minimum number of bracket reversals needed to make an expression balanced

Solve

-

Medium

Count and say

Solve

-

Medium

Hashing In Strings | Theory

-

-

-

-

Medium

Rabin Karp

Solve

-

Hard

Z-Function

Solve

-

Easy

KMP algo / LPS(pi) array

Solve

-

Hard

Shortest Palindrome

Solve

-

Hard

Longest happy prefix

Solve

-

Hard

Count palindromic subsequence in given string

-

-

-

-

Hard