# Strivers A2Z DSA Course

This course is made for people who want to learn DSA from A to Z for free in a well-organized and structured manner. Know More

**Note:** You can find **LeetCode** links for problems available on the internet. However few problems are not there on **LeetCode** for which you will not find a practice link attached. We cannot use third-party links due to legal constraints. Also the newly added TUF+ practice links are to give you a free trial of TUF+ which a lot of people asked for. If you don't wish to upgrade, you can still use the TUF platform, nothing has changed.

Remember, you started using our website because of our content and not because of some third party links :)

| Total Progress | | Easy | Medium | Hard |
|---|---|---|---|---|
| 0 / 455 | 0% | 0 / 131 completed | 0 / 187 completed | 0 / 136 completed |

All Problems | Revision

Difficulty | Pick Random

## Step 1 : Learn the basics

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

0 / 9

| Status | Problem | TUF+ | 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 | TUF+ | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Patterns | Solve | | | - | + | | Easy |

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

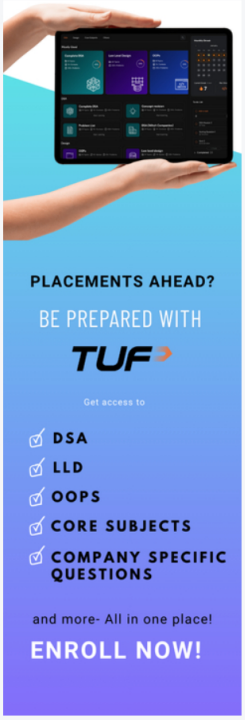
0 / 2

| Status | Problem | TUF+ | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | C++ STL | - | | | - | + | | Medium |
| | Java Collections | - | | - | - | + | | Easy |

### Lec 4: Know Basic Maths

0 / 7

| Status | Problem | TUF+ | 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 | TUF | 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 | Solve | | | - | + | | Easy |
| | Print N to 1 using recursion | Solve | | | - | + | | 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 | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Hashing Theory | - | | | - | + | | Medium |
| | Counting frequencies of array elements | Solve | | - | - | + | | Easy |
| | Find the highest/lowest frequency element | Solve | | - | | + | | Easy |

# Step 2 : Learn Important Sorting Techniques

0 / 7

## Lec 1: Sorting-I

0 / 3

| Status | Problem | TUF | 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 | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Merge Sort | Solve | | | - | + | | Medium |
| | Recursive Bubble Sort | Solve | | - | - | + | | Easy |
| | Recursive Insertion Sort | Solve | | - | - | + | | Easy |
| | Quick Sort | Solve | | | - | + | | Easy |

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

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### Lec 1: Easy

0 / 14

| Status | Problem | TUF | 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 | TUF | 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 | Solve | | | | + | | Medium |
| | Leaders in an Array problem | Solve | | | - | + | | Easy |
| | Longest Consecutive Sequence in an Array | Solve | | | | + | | Easy |
| | Set Matrix Zeros | Solve | | | | + | | 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 | TUF | 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 | Solve | | | - | + | | Medium |
| | Count number of subarrays with given xor K | Solve | | | - | + | | Hard |
| | Merge Overlapping Subintervals | Solve | | | | + | | 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 |

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

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## Lec 1: BS on 1D Arrays

0 / 13

| Status | Problem | TUF | 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 | Solve | | | - | + | | 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 | TUF | 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 | Solve | | | | + | | Hard |
| | Kth Missing Positive Number | Solve | | | | + | | Easy |
| | Aggressive Cows | Solve | | | - | + | | Hard |
| | Book Allocation Problem | Solve | | | - | + | | Hard |
| | Split array - Largest Sum | Solve | | | | + | | Hard |
| | Painter's partition | Solve | | | - | + | | 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 | TUF | 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 |

## Step 5 : Strings [Basic and Medium]

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### Lec 1: Basic and Easy String Problems

0 / 7

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Remove outermost Paranthesis | Solve | - | - | | + | | 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 | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Sort Characters by frequency | Solve | | - | | + | | Easy |
| | Maximum Nesting Depth of Paranthesis | Solve | - | - | | + | | Easy |
| | Roman Number to Integer and vice versa | Solve | - | - | | + | | Easy |
| | Implement Atoi | Solve | | - | | + | | Medium |
| | Count Number of Substrings | - | - | - | - | + | | Medium |
| | Longest Palindromic Substring[Do it without DP] | - | - | - | | + | | Hard |
| | Sum of Beauty of all substring | Solve | - | - | | + | | Medium |
| | Reverse Every Word in A String | Solve | | - | | + | | Easy |

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

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### Lec 1: Learn 1D LinkedList

0 / 5

| Status | Problem | TUF | 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] | Solve | - | | - | + | | Easy |
| | Search an element in the LL | Solve | - | | - | + | | Easy |

## Lec 2: Learn Doubly LinkedList

0 / 4

| Status | Problem | TUF | 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 | Solve | - | | - | + | | Medium |

## Lec 3: Medium Problems of LL

0 / 15

| Status | Problem | TUF | 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 | TUF | 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 | Solve | - | | - | + | | Medium |
| | Remove duplicates from sorted DLL | Solve | | | - | + | | Medium |

## Lec 5: Hard Problems of LL

0 / 4

| Status | Problem | TUF | 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 |

## Step 7 : Recursion [PatternWise]

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### Lec 1: Get a Strong Hold

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| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Recursive Implementation of atoi() | Solve | | - | | + | | Hard |
| | Pow(x, n) | Solve | | | | + | | Medium |
| | Count Good numbers | Solve | - | - | | + | | Easy |
| | Sort a stack using recursion | Solve | - | - | - | + | | Medium |
| | Reverse a stack using recursion | Solve | - | - | - | + | | Easy |

### Lec 2: Subsequences Pattern

0 / 12

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Generate all binary strings | Solve | - | - | - | + | | 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 | TUF | 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 | Solve | | - | | + | | |
| | M Coloring Problem | Solve | | | - | + | | Hard |
| | Sudoko Solver | Solve | | | | + | | Hard |
| | Expression Add Operators | Solve | - | - | | + | | Hard |

## Step 8 : Bit Manipulation [Concepts & Problems]

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### Lec 1: Learn Bit Manipulation

0 / 8

| Status | Problem | TUF | 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 | Solve | | | - | + | | Easy |
| | Check if a number is odd or not | Solve | | | - | + | | Easy |
| | Check if a number is power of 2 or not | Solve | | | | + | | Easy |
| | Count the number of set bits | Solve | | | - | + | | Easy |
| | Set/Unset the rightmost unset bit | - | - | | - | + | | Easy |
| | Swap two numbers | Solve | - | | - | + | | Easy |
| | Divide two integers without using multiplication, division and mod operator | Solve | | | | + | | Medium |

### Lec 2: Interview Problems

0 / 5

| Status | Problem | TUF | 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 | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Print Prime Factors of a Number | Solve | | | - | + | | Easy |
| | All Divisors of a Number | Solve | | | - | + | | Easy |
| | Sieve of Eratosthenes | Solve | | | | + | | Medium |
| | Find Prime Factorisation of a | Solve | | | - | + | | Medium |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Number using Sieve | | | | | | | |
| | Power(n, x) | Solve | | | | + | | Medium |

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

0 / 30

### Lec 1: Learning

0 / 8

| Status | Problem | TUF | 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 | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Infix to Postfix Conversion using Stack | Solve | - | | - | + | | Medium |
| | Prefix to Infix Conversion | Solve | - | | - | + | | Medium |
| | Prefix to Postfix Conversion | Solve | - | | - | + | | Medium |
| | Postfix to Prefix Conversion | Solve | - | | - | + | | Medium |
| | Postfix to Infix | - | - | | - | + | | Medium |
| | Convert Infix To Prefix Notation | Solve | - | | - | + | | Medium |

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

0 / 11

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Next Greater Element | Solve | | | | + | | Easy |
| | Next Greater Element 2 | Solve | | | | + | | Medium |
| | Next Smaller Element | Solve | - | - | - | + | | Easy |
| | Number of NGEs to the right | Solve | - | - | - | + | | Medium |
| | 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 | TUF | 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 |

## Step 10 : Sliding Window & Two Pointer Combined Problems

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### Lec 1: Medium Problems

0 / 8

| Status | Problem | TUF | 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 | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Longest Substring with At Most K Distinct Characters | Solve | | | | + | | Medium |
| | Subarray with k different integers | Solve | - | | | + | | Hard |
| | Minimum Window Substring | Solve | | - | | + | | Hard |
| | Minimum Window Subsequence | Solve | | - | | + | | Hard |

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

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### Lec 1: Learning

0 / 4

| Status | Problem | TUF | 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 | TUF | 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 | Solve | - | - | | + | | Hard |
| | Replace each array element by its corresponding rank | - | - | - | - | + | | Easy |
| | Task Scheduler | Solve | - | - | | + | | Medium |
| | Hands of Straights | Solve | - | - | | + | | Medium |

## Lec 3: Hard Problems

0 / 6

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Design twitter | Solve | - | - | | + | | Medium |
| | Connect `n` ropes with minimal cost | Solve | | - | - | + | | Medium |
| | Kth largest element in a stream of running integers | Solve | | - | | + | | Easy |
| | Maximum Sum Combination | Solve | - | - | - | + | | Medium |
| | Find Median from Data Stream | Solve | - | - | | + | | Hard |
| | K most frequent elements | Solve | - | - | | + | | Medium |

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

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## Lec 1: Easy Problems

0 / 5

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Assign Cookies | Solve | | | | + | | Easy |
| | Fractional Knapsack Problem | Solve | - | | - | + | | Medium |
| | Greedy algorithm to find minimum number of coins | Solve | | | - | + | | Medium |
| | Lemonade Change | Solve | | | | + | | Easy |
| | Valid Paranthesis Checker | Solve | | | | + | | Medium |

## Lec 2: Medium/Hard

0 / 11

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | N meetings in one room | Solve | | | - | + | | Medium |
| | Jump Game | Solve | | | | + | | Medium |
| | Jump Game 2 | Solve | - | | | + | | 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 | Solve | | - | - | + | | Medium |
| | Insert Interval | Solve | | | | + | | Medium |
| | Merge Intervals | Solve | - | | | + | | Medium |
| | Non-overlapping Intervals | Solve | | | | + | | Medium |

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

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## Lec 1: Traversals

0 / 13

| Status | Problem | TUF | 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 | TUF | 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 | TUF | 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 | Solve | | | - | + | | 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 | Solve | | | | + | | Medium |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Binary Tree | | | | | | | |
| | Flatten Binary Tree to LinkedList | Solve | | | | + | | Hard |

## Step 14 : Binary Search Trees [Concept and Problems]

0 / 16

### Lec 1: Concepts

0 / 3

| Status | Problem | TUF | 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 | TUF | 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 |

## Step 15 : Graphs [Concepts & Problems]

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### Lec 1: Learning

0 / 6

| Status | Problem | TUF | 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 | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Number of provinces (leetcode) | Solve | | | | + | | Medium |
| | Connected Components Problem in Matrix | Solve | | - | - | + | | Hard |
| | Rotten Oranges | Solve | | | | + | | Medium |
| | Flood fill | Solve | | | | + | | Hard |
| | Cycle Detection in Undirected 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 | TUF | 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 | TUF | 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 | Solve | | - | | + | | 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 | TUF | 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 | Solve | | - | | + | | Hard |

## Lec 6: Other Algorithms

0 / 3

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Bridges in Graph | Solve | | | | + | | Hard |
| | Articulation Point | Solve | | | - | + | | Hard |
| | Kosaraju's Algorithm | Solve | | | - | + | | Hard |

## Step 16 : Dynamic Programming [Patterns and Problems]

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### Lec 1: Introduction to DP

0 / 1

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Dynamic Programming Introduction | Solve | | | - | + | | Medium |

### Lec 2: 1D DP

0 / 5

| Status | Problem | TUF | 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 | TUF | 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) | Solve | | | | + | | Medium |
| | 3-d DP : Ninja and his friends (DP-13) | Solve | | | - | + | | Medium |

### Lec 4: DP on Subsequences

0 / 11

| Status | Problem | TUF | 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 I (DP - 24) | Solve | | | - | + | | Hard |

## Lec 5: DP on Strings

0 / 10

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Longest Common Subsequence I (DP - 25) | Solve | | | | + | | Hard |
| | Print Longest Common Subsequence I (DP - 26) | Solve | | | - | + | | Hard |
| | Longest Common Substring I (DP - 27) | Solve | | | - | + | | Hard |
| | Longest Palindromic Subsequence I (DP-28) | Solve | | | | + | | Hard |
| | Minimum insertions to make string palindrome I DP-29 | Solve | | | | + | | Hard |
| | Minimum Insertions/Deletions to Convert String I (DP- 30) | Solve | | | | + | | Hard |
| | Shortest Common Supersequence I (DP - 31) | Solve | | | | + | | Hard |
| | Distinct Subsequences\| (DP-32) | Solve | | | | + | | Hard |
| | Edit Distance I (DP-33) | Solve | | | | + | | Hard |
| | Wildcard Matching I (DP-34) | Solve | | | | + | | Medium |

## Lec 6: DP on Stocks

0 / 6

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Best Time to Buy and Sell Stock I (DP-35) | Solve | | | | + | | Hard |
| | Buy and Sell Stock - III(DP-36) | Solve | | | | + | | Hard |
| | Buy and Sell Stocks IIII(DP-37) | Solve | | | | + | | Hard |
| | Buy and Stock Sell IV I(DP-38) | Solve | | | | + | | Hard |
| | Buy and Sell Stocks With Cooldown\|(DP-39) | Solve | - | | | + | | Hard |
| | Buy and Sell Stocks With Transaction Fee\|(DP-40) | Solve | | | | + | | Hard |

## Lec 7: DP on LIS

0 / 7

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Longest Increasing Subsequence I(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 | TUF | 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) | Solve | | | | + | | Hard |
| | Palindrome Partitioning - III\|(DP-53) | Solve | | | | + | | Hard |
| | Partition Array for Maximum Sum\|(DP-54) | Solve | - | | | + | | Hard |

## Lec 9: DP on Squares

0 / 2

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Maximum Rectangle Area with all 1's\|(DP-55) | Solve | | | | + | | Hard |
| | Count Square Submatrices with All Ones\|(DP-56) | - | - | | | + | | Hard |

# Step 17 : Tries

0 / 7

## Lec 1: Theory

0 / 1

| Status | Problem | TUF | Resource (Plus) | Resource (Free) | Practice | Note | Revision | Difficulty |
|---|---|---|---|---|---|---|---|---|
| | Implement TRIE \| INSERT \| SEARCH \| STARTSWITH | Solve | | | | + | | Hard |

## Lec 2: Problems

0 / 6

| Status | Problem | TUF | 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 | - | - | - | - | + | | Hard |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Problems | | | | | | | |
| | Maximum XOR of two numbers in an array | Solve | | | | + | | Medium |
| | Maximum XOR With an Element From Array | Solve | | | | + | | Hard |

## Step 18 : Strings

0 / 9

### Lec 1: Hard Problems

0 / 9

| Status | Problem | TUF | 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 | Solve | - | - | - | + | | Hard |