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**Note:** If you find the sheet useful, you can also contribute an article or solution for any problem to be published on takeuforward.org! [Click here for more details.](#)

## Day 1: Arrays

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Set Matrix Zeroes</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Pascal's Triangle</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Next Permutation</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Kadane's Algorithm</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Sort an array of 0's 1's 2's</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Stock buy and Sell</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

Accolite Digital **Amazon**

Arcesium Bank of America

Barclays BFS **Binary**

**Search** Binary Search Tree

Commvault CPP DE Shaw DFS

**DSA Self Paced**

google HackerEarth infosys

inorder Java Juspay Kreeti

Technologies Morgan Stanley

Newfold Digital Oracle post order

pre-order queue recursion

Samsung SDE Core Sheet

**SDE Sheet** Searching


set-bits **sorting** sub-array

subarray Swiggy takeuforward


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TCS DIGITA; TCS Ninja **TCS**

**NQT** VMware XOR



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## Day 2: Arrays Part-II

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Rotate Matrix</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Merge Overlapping Subintervals</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Merge two sorted Arrays without extra space</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Find the duplicate in an array of N+1 integers.</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Repeat and Missing Number</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Inversion of Array (Pre-req: Merge Sort)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

### Day 3: Arrays Part-III

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Search in a 2d Matrix</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Pow(X,n)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Majority Element (&gt;N/2 times)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>



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✓ ✓ ★	<a href="#">Majority Element (&gt;N/3 times)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
	<a href="#">Grid Unique Paths</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
	<a href="#">Reverse Pairs (Leetcode)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

modification of total inv. count.

#### Day 4: Arrays Part-IV

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
✓	<a href="#">2-Sum-Problem</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
★ ✓	<a href="#">4-sum-Problem</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
★ ✓	<a href="#">Longest Consecutive Sequence</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
★ ✓	<a href="#">Largest Subarray with 0 sum</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
★ ✓	<a href="#">Count number of subarrays with given Xor K</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓	<a href="#">Longest Substring without repeat</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

(Prefix sum modification)  
(Prefix xor)

#### Day 5: Linked List

Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2

✓	<a href="#">Reverse a LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓	<a href="#">Find the middle of LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓	<a href="#">Merge two sorted Linked List (use method used in mergeSort)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓	<a href="#">Remove N-th node from back of LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓	<a href="#">Add two numbers as LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓	<a href="#">Delete a given Node when a node is given.(O(1) solution)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

## Day 6: Linked List Part-II



Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
✓ <a href="#">Find intersection point of Y LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓ <a href="#">Detect a cycle in Linked List</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
✓ <a href="#">Reverse a LinkedList in groups of size k.</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>



<a href="#">Check if a LinkedList is palindrome or not.</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Find the starting point of the Loop of LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Flattening of a LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

### Day 7: Linked List and Arrays



Find both C++/Java codes of all problem in the articles in the first column.




Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Rotate a LinkedList</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Clone a Linked List with random and next pointer	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">3 sum</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Trapping rainwater</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Remove Duplicate from Sorted array</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Max consecutive ones</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

### Day 8: Greedy Algorithm



Find both C++/Java codes of all problem in the articles in the first column.

Problem	Practice Link 1	Video Solution	Practice Link 2
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<a href="#">N meetings in one room</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Minimum number of platforms required for a railway</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Job sequencing Problem</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Fractional Knapsack Problem</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Greedy algorithm to find minimum number of coins</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Activity Selection (it is the same as N meeting in one room)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

### Day 9: Recursion



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of recursion.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Subset Sums</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Subset-II</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Combination sum-1</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Combination sum-2</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>



<a href="#">Palindrome Partitioning</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">K-th permutation Sequence</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

## Day 10: Recursion and Backtracking



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of recursion.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Print all permutations of a string/array</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">N queens Problem</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Sudoku Solver</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">M coloring Problem</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Rat in a Maze</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Word Break (print all ways)	<a href="#">Link 1</a>	YT	Link 2

## Day 11: Binary Search



Find both C++/Java codes of all problem in the articles in the first column.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">The N-th root of an integer</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	Link 2

Matrix Median	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Find the element that appears once in a sorted array, and the rest element appears twice (Binary search)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Search element in a sorted and rotated array/ find pivot where it is rotated</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Median of 2 sorted arrays</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">K-th element of two sorted arrays</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Allocate Minimum Number of Pages</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Aggressive Cows</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

## Day 12: Trie




Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Tries.

Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Implement Trie (Prefix Tree)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Implement Trie – 2</a>			






<a href="#">(Prefix Tree)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Longest String with All Prefixes	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Number of Distinct Substrings in a String</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Power Set (this is very important)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Maximum XOR of two numbers in an array</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Maximum XOR With an Element From Array	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>


### Day 13: Stack and Queue



Find both C++/Java codes of all problem in the articles in the first column.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Implement Stack Using Arrays</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Implement Queue Using Arrays</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Implement Stack using Queue (using single queue)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Implement Queue using Stack (O(1) amortized method)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>




<a href="#">Check for balanced parentheses</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Next Greater Element</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Sort a Stack	<a href="#">Link 1</a>	YT	Link 2


## Day 14: Stack and Queue Part-II



Find both C++/Java codes of all problem in the articles in the first column.



Problem	Practice Link 1	Video Solution	Practice Link 2
Next Smaller Element	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
<a href="#">LRU cache (IMPORTANT)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
LFU Cache	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Largest rectangle in a histogram</a>	<a href="#">Link 1</a>	<a href="#">YT1/YT2</a>	<a href="#">Link 2</a>
<a href="#">Sliding Window maximum</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Implement Min Stack</a>	Link 1	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Rotten Orange (Using BFS)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Stock Span Problem	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Find the maximum of minimums of every window size	<a href="#">Link 1</a>	YT	Link 2
The Celebrity			




Problem	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
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### Day 15: String



Find both C++/Java codes of all problem in the articles in the first column.




Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Reverse Words in a String</a>	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Longest Palindrome in a string	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Roman Number to Integer and vice versa	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Implement ATOI/STRSTR	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Longest Common Prefix	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Rabin Karp	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>

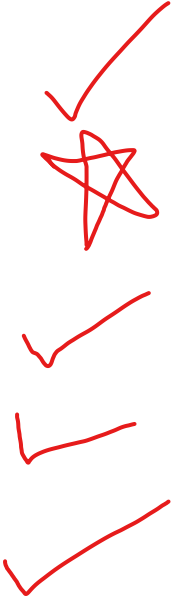
### Day 16: String Part-II



Find both C++/Java codes of all problem in the articles in the first column.



Problem	Practice Link 1	Video Solution	Practice Link 2
Z-Function	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
KMP algo / LPS(pi) array	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>



Minimum characters needed to be inserted in the beginning to make it palindromic	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Check for Anagrams	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Count and Say	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Compare version numbers	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>

### Day 17: Binary Tree




Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Binary Trees.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Inorder Traversal</a>	Link 1	<a href="#">YT1</a> / <a href="#">YT2</a>	<a href="#">Link 2</a>
<a href="#">Preorder Traversal</a>	Link 1	<a href="#">YT1</a> / <a href="#">YT2</a>	<a href="#">Link 2</a>
<a href="#">Postorder Traversal</a>	Link 1	<a href="#">YT1</a> / <a href="#">YT2</a>	<a href="#">Link 2</a>
<a href="#">Morris Inorder Traversal</a>	Link 1	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Morris Preorder Traversal</a>	Link 1	<a href="#">YT</a>	Link 2
<a href="#">LeftView Of Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>




<a href="#">Bottom View of Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Top View of Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Preorder inorder postorder in a single traversal</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Vertical order traversal</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Root to node path in a Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Max width of a Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

### Day 18: Binary Tree part-II



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Binary Trees.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Level order Traversal / Level order traversal in spiral form</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Height of a Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Diameter of Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Check if the Binary</a>			

tree is height-balanced or not	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
LCA in Binary Tree	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Check if two trees are identical or not	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
zig zag traversal of binary tree			

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Boundary Traversal of Binary Tree	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
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### Day 19: Binary Tree part-III

Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Binary Trees.

Problem	Practice Link 1	Video Solution	Practice Link 2
Maximum path sum	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Construct Binary Tree from inorder and preorder	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Construct Binary Tree from Inorder and Postorder	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Symmetric Binary Tree	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Flatten Binary Tree to LinkedList	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Check if Binary Tree			

$O(1)$  space sdn










is the mirror of itself or not	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
<a href="#">Check for Children Sum Property</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	Link 2

## Day 20: Binary Search Tree



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Binary Trees.

Problem	Practice Link 1	Video Solution	Practice Link 2
Populate Next Right pointers of Tree	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Search given Key in BST	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Construct BST from given keys	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Construct BST from preorder traversal	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Check is a BT is BST or not	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Find LCA of two nodes in BST	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Find the inorder predecessor/successor of a given Key in BST.	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

## Day 21: Binary Search Tree Part-II



Find both C++/Java codes of all problem in the articles in the first

column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Binary Trees.

Problem	Practice Link 1	Video Solution	Practice Link 2
Floor in a BST	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Ceil in a BST	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Find K-th smallest element in BST</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Find K-th largest element in BST</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Find a pair with a given sum in BST	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
BST iterator	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Size of the largest BST in a Binary Tree	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Serialize and deserialize Binary Tree</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

## Day 22: Binary Trees[Miscellaneous]



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Binary Trees.

Problem	Practice Link 1	Video Solution	Practice Link 2
Binary Tree to			



Double Linked List	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Find median in a stream of running integers.	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
K-th largest element in a stream.	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Distinct numbers in Window.	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
K-th largest element in an unsorted array.	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Flood-fill Algorithm	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>


### Day 23: Graph



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Graphs.

Problem	Practice Link 1	Video Solution	Practice Link 2
Clone a graph (Not that easy as it looks)	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
<a href="#">DFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">BFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Detect A cycle in Undirected Graph using BFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>




<a href="#">Detect A cycle in Undirected Graph using DFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Detect A cycle in a Directed Graph using DFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Detect A cycle in a Directed Graph using BFS	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Topological Sort BFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Topological Sort DFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Number of islands(Do in Grid and Graph Both)	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Bipartite Check using BFS	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Bipartite Check using DFS</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

## Day 24: Graph Part-II



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of Graphs.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Strongly Connected Component(using KosaRaju's algo)</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>



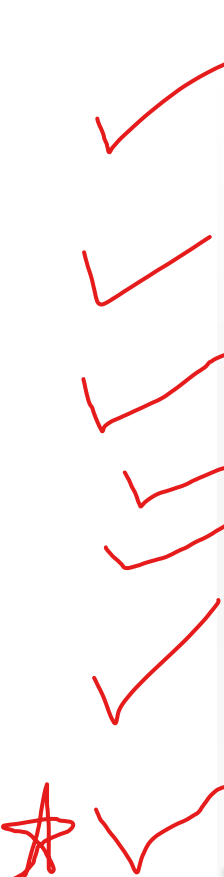
<a href="#">Dijkstra's Algorithm</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">Bellman-Ford Algo</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Floyd Warshall Algorithm	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
<a href="#">MST using Prim's Algo</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<a href="#">MST using Kruskal's Algo</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

## Day 25: Dynamic Programming



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of DP.



Problem	Practice Link 1	Video Solution	Practice Link 2
<a href="#">Max Product Subarray</a>	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Longest Increasing Subsequence	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
<a href="#">Longest Common Subsequence</a>	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
0-1 Knapsack	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Edit Distance	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Maximum sum increasing subsequence	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Matrix Chain Multiplication	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>

## Day 26: Dynamic Programming Part-II



Find both C++/Java codes of all problem in the articles in the first column.

I will recommend you to do [this](#) playlist at first, so that you learn A-Z of DP.

Problem	Practice Link 1	Video Solution	Practice Link 2
Maximum sum path in the matrix, (count paths and similar type do, also backtrack to find the maximum path)	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Coin change	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Subset Sum	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
Rod Cutting	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Egg Dropping	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Word Break	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Palindrome Partitioning (MCM Variation)	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>
Maximum profit in Job scheduling	<a href="#">Link 1</a>	YT	<a href="#">Link 2</a>

## Day 27: Operating System Revision (Refer [Sheet](#) for OS Questions)



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.

**Day 28:** DBMS Revision (Refer [Sheet](#) for DBMS Questions)



1. Revise DBMS 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.

**Day 29:** Computer Networks Revision (Refer [Sheet](#) for CN Questions)



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.

**Day 30:** Project Overview



Make a note of how will you 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.

— ~Striver

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