

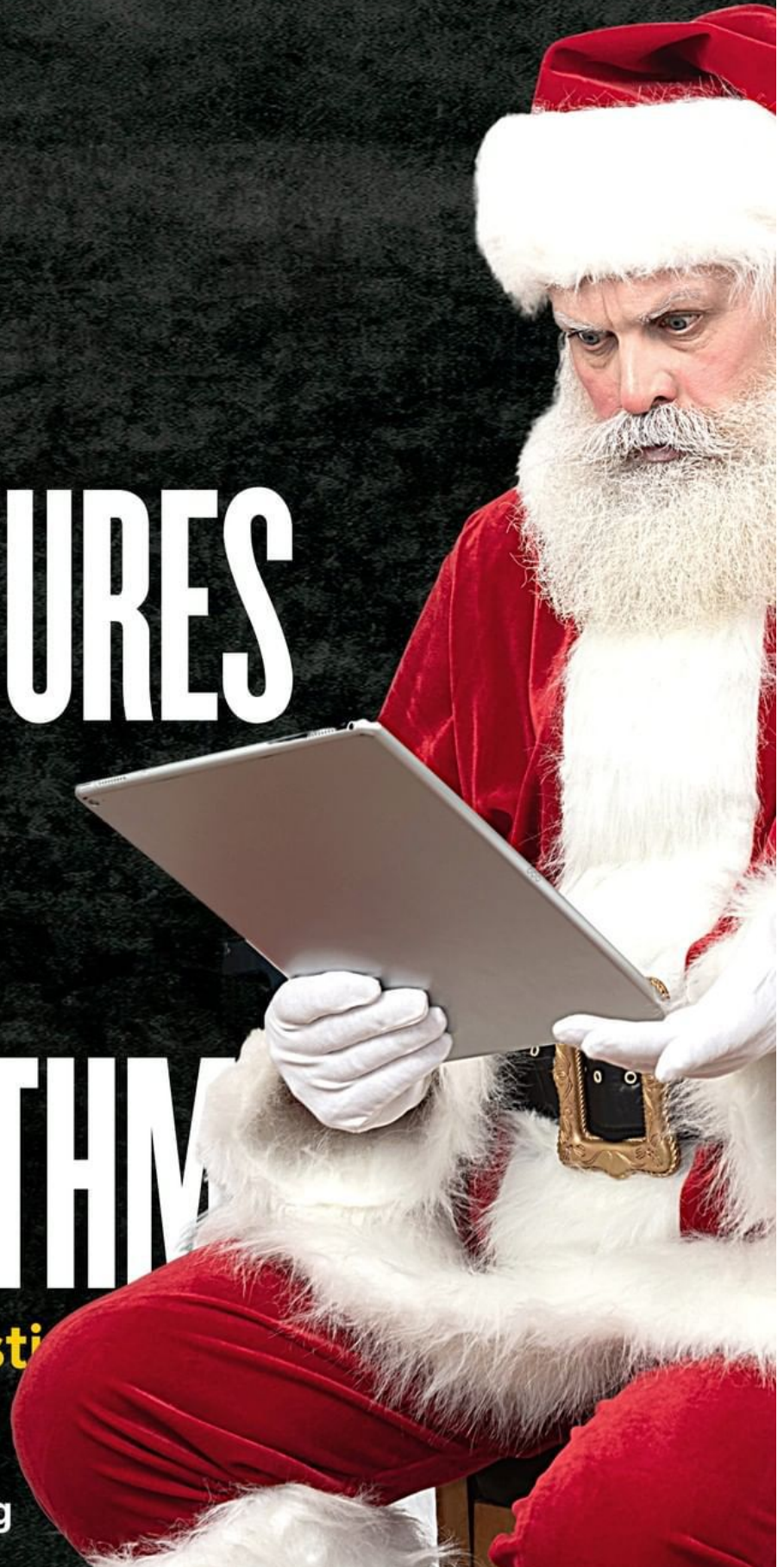
01

(most asked)

# DATA STRUCTURES AND ALGORITHM

(Interview question)

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# ARRAY INTERVIEW QUESTIONS

How do you find the missing number in a given integer array of 1 to 100?

Find the duplicate number on a given integer array?

The largest and smallest number in an unsorted integer array?

Find all pairs of integer array whose sum is equal to a given number?

Find duplicate numbers in an array if it contains multiple duplicates?

Remove duplicates from an array in place?

Find multiple missing numbers in a given integer array with duplicates?



# LINKED LIST INTERVIEW QUESTIONS

Find the middle element of a singly linked list in one pass?

Find the nth node from the end in a singly linked list?

Check if a given linked list contains a cycle?  
How to find the starting node of the cycle?

Find the length of a singly linked list?

Reverse a linked list?

Find the sum of two linked lists using Stack?

Reverse a singly linked list without recursion?

Remove duplicate nodes in an unsorted linked list?





# BINARY TREE INTERVIEW QUESTIONS

Pre-order, In-order and Post-order traversal in a given binary tree?

Implement a Post-order traversal algorithm?

Traverse a binary tree in Postorder, Inorder and postorder traversal without recursion?

Print all leaves of a binary search tree?

Count a number of leaf nodes in a given binary tree?

In order traversal in given binary tree?

Check if a given binary tree is a binary search tree?

How do you check whether there are two nodes in it whose sum equals a given value?





## STACK AND QUEUE INTERVIEW QUESTIONS

How do you implement a Queue using two Stacks?

Implement Stack using an array and linked list?

How do you implement Stack using Queues?

Given a binary tree, return the postorder traversal of its nodes' values, using Stack?

Difference between Stack and Queue data structure

Infix to postfix using a stack

Infix to prefix using a stack

Sorting a stack using a temporary stack





## SEARCH AND SORT INTERVIEW QUESTIONS

Implement the Bubble Sort algorithm?

Implement Iterative QuickSort Algorithm?

Implement the Bucket Sort Algorithm?

Implement the Counting Sort Algorithm?

Implement the Insertion Sort Algorithm?

Implement a Merge Sort Algorithm?

Implement Sieve of Eratosthenes Algorithm  
to find Prime numbers?

Find GCD of two numbers using Euclid's  
Algorithm?

Implement the Bubble Sort algorithm?



# STRING INTERVIEW QUESTIONS

Check if two strings are anagrams of each other?

Check if a string contains only digits?

Find duplicate characters in a string?

Find all permutations of a string?

Reverse words in a given sentence?

check if two strings are a rotation of each other?

count a number of vowels and consonants in a given string?

count the occurrence of a given character in a string?





# TREE INTERVIEW QUESTIONS

Height Of Binary Tree

Root To Leaf Sum Binary Tree

Check if Binary Tree is Binary Search Tree

Level Order Traversal of Binary Tree

Level by Level Printing of Binary Tree

Reverse level order traversal binary tree

Iterative Postorder, postorder and inorder  
Traversal of Binary Tree

Tree Traversal Spiral Order

Lowest Common Ancestor Binary Tree

Largest BST in Binary Tree





## MISCELLANEOUS INTERVIEW QUESTIONS

Check if a number is the power of two?

Check if two rectangles overlap with each other?

Check if a given number is an Armstrong number?

Find all prime factors of a given number?

Find the largest prime factor of a given integral number?

Check if a number is even or odd without using a modulo operator?

Print Floyd's and Pascal's triangle?

Print a given Pyramid structure?

Convert a decimal number to binary