



50 MOST FREQUENTLY ASKED DSA QUESTIONS IN





Array

1. Two Sum

Given an array of integer nums and an integer target, return indices of the two numbers such that they add up to the target.

You may assume that each input would have exactly one solution, and you may not use the same element twice.

You can return the answer in any order.

Input: nums = [2,7,11,15], target = 9

Output: [0,1]

Explanation: Because nums[0] + nums[1] == 9, we return [0, 1].

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2. Best Time to Buy and Sell Stock

You are given an array of prices where prices[i] is the price of a given stock on an ith day.

You want to maximize your profit by choosing a single day to buy one stock and choosing a different day in the future to sell that stock.

Return the maximum profit you can achieve from this transaction. If you cannot achieve any profit, return 0

Input: prices = [7,1,5,3,6,4]

Output: 5

Explanation: Buy on day 2 (price = 1) and sell on day 5 (price = 6), profit = 6-1 = 5.

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3. Contains Duplicate

Given an integer array `nums`, return true if any value appears at least twice in the array, and return false if every element is distinct.

Input: `nums` = [1,2,3,1]

Output: true

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4. Product of Array Except Self

Given an integer array `nums`, return an array `answer` such that `answer[i]` is equal to the product of all the elements of `nums` except `nums[i]`.

The product of any prefix or suffix of `nums` is guaranteed to fit in a 32-bit integer.

You must write an algorithm that runs in $O(n)$ time and without using the division operation.

Input: `nums` = [1,2,3,4]

Output: [24,12,8,6]

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5. Maximum Subarray

Given an integer array nums, find the subarray with the largest sum, and return its sum.

Input: nums = [-2,1,-3,4,-1,2,1,-5,4]

Output: 6

Explanation: The subarray [4,-1,2,1] has the largest sum 6.

Input: nums = [1]

Output: 1

Explanation: The subarray [1] has the largest sum of 1.

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6. Maximum Product Subarray

Given an integer array nums, find a subarray that has the largest product, and return the product.

Input: nums = [2,3,-2,4]

Output: 6

Explanation: [2,3] has the largest product 6.

Input: nums = [-2,0,-1]

Output: 0

Explanation: The result cannot be 2, because [-2,-1] is not a subarray.

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7. Find the Minimum in Rotated Sorted Array

Given the sorted rotated array `nums` of unique elements, return the minimum element of this array.

You must write an algorithm that runs in $O(\log n)$ time.

Input: `nums` = [3,4,5,1,2]

Output: 1

Explanation: The original array was [1,2,3,4,5] rotated 3 times.

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8. Search in Rotated Sorted Array

Given the array `nums` after the possible rotation and an integer target, return the index of the target if it is in `nums`, or -1 if it is not in `nums`.

You must write an algorithm with $O(\log n)$ runtime complexity.

Input: `nums` = [4,5,6,7,0,1,2], `target` = 0

Output: 4

Input: `nums` = [4,5,6,7,0,1,2], `target` = 3

Output: -1

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9. 3Sum

Given an integer array `nums`, return all the triplets `[nums[i], nums[j], nums[k]]` such that $i \neq j$, $i \neq k$, and $j \neq k$, and $nums[i] + nums[j] + nums[k] == 0$.

Notice that the solution set must not contain duplicate triplets.

Input: `nums` = [-1,0,1,2,-1,-4]

Output: [[-1,-1,2],[-1,0,1]]

Explanation:

`nums[0] + nums[1] + nums[2] = (-1) + 0 + 1 = 0.`

`nums[1] + nums[2] + nums[4] = 0 + 1 + (-1) = 0.`

`nums[0] + nums[3] + nums[4] = (-1) + 2 + (-1) = 0.`

The distinct triplets are [-1,0,1] and [-1,-1,2].

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10. Container With Most Water

You are given an integer array `height` of length `n`. There are `n` vertical lines drawn such that the two endpoints of the `i`th line are (`i, 0`) and (`i, height[i]`).

Find two lines that together with the x-axis form a container, such that the container contains the most water.

Return the maximum amount of water a container can store.

Input: `height` = [1,8,6,2,5,4,8,3,7]

Output: 49

Explanation: The above vertical lines are represented by an array [1,8,6,2,5,4,8,3,7]. In this case, the max area of water (blue section) the container can contain is 49.

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Matrix

11. Set Matrix Zeroes

Given an $m \times n$ integer matrix, if an element is 0, set its entire row and column to 0's. You must do it in place.

Input: matrix = [[1,1,1],[1,0,1],[1,1,1]]

Output: [[1,0,1],[0,0,0],[1,0,1]]

1	1	1
1	0	1
1	1	1

1	0	1
0	0	0
1	0	1

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12. Spiral Matrix

Given an $m \times n$ matrix, return all elements of the matrix in spiral order.

Input: matrix = [[1,2,3],[4,5,6],[7,8,9]]

Output: [1,2,3,6,9,8,7,4,5]

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1	2	3
4	5	6
7	8	9



13. Rotate Image

You are given an $n \times n$ 2D matrix representing an image, rotate the image by 90 degrees (clockwise).

You have to rotate the image in place, which means you have to modify the input 2D matrix directly. DO NOT allocate another 2D matrix and do the rotation.

Input: matrix = [[1,2,3],[4,5,6],[7,8,9]]

Output: [[7,4,1],[8,5,2],[9,6,3]]

The diagram illustrates a 3x3 matrix rotation. On the left, a 3x3 grid contains the numbers 1 through 9 in a standard row-major order. An arrow points to the right, indicating the transformation. On the right, the same 3x3 grid is shown rotated 90 degrees clockwise, with the numbers 7, 4, 1 in the top row, 8, 5, 2 in the middle row, and 9, 6, 3 in the bottom row.

1	2	3
4	5	6
7	8	9

7	4	1
8	5	2
9	6	3

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14. Word Search

Given an $m \times n$ grid of characters board and a string word, return true if the word exists in the grid.

The word can be constructed from letters of sequentially adjacent cells, where adjacent cells are horizontally or vertically neighboring. The same letter cell may not be used more than once.

Input: board = [["A","B","C","E"],["S","F","C","S"],["A","D","E","E"]],
word = "ABCCED"

Output: true

The diagram shows a 3x4 grid of characters. The first two columns are shaded orange, while the third and fourth columns are white. The characters in the grid are: Row 1: A, B, C, E; Row 2: S, F, C, S; Row 3: A, D, E, E. This represents a board where the word "ABCCED" can be found starting from the top-left corner.

A	B	C	E
S	F	C	S
A	D	E	E

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String

15. Longest Substring Without Repeating Characters

Given a string s, find the length of the longest substring without repeating characters.

Input: s = "abcabcbb"

Output: 3

Explanation: The answer is "abc", with a length of 3.

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16. Longest Repeating Character Replacement

You are given a string s and an integer k. You can choose any character of the string and change it to any other uppercase English character. You can perform this operation at most k times.

Return the length of the longest substring containing the same letter you can get after performing the above operations.

Input: s = "ABAB", k = 2

Output: 4

Explanation: Replace the two 'A's with two 'B's or vice versa.

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17. Minimum Window Substring

Given two strings s and t of lengths m and n respectively, return the minimum window substring of s such that every character in t (including duplicates) is included in the window. If there is no such substring, return the empty string "".

Input: $s = \text{"ADOBECODEBANC"}$, $t = \text{"ABC"}$

Output: "BANC"

Explanation: The minimum window substring "BANC" includes 'A', 'B', and 'C' from string t .

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18. Valid Anagram

Given two strings s and t , return true if t is an anagram of s , and false otherwise.

An Anagram is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.

Input: $s = \text{"anagram"}$, $t = \text{"nagaram"}$

Output: true

Input: $s = \text{"rat"}$, $t = \text{"car"}$

Output: false

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19. Group Anagrams

Given an array of strings `strs`, group the anagrams together. You can return the answer in any order.

An Anagram is a word or phrase formed by rearranging the letters of a different word or phrase, typically using all the original letters exactly once.

Input: `strs` = ["eat", "tea", "tan", "ate", "nat", "bat"]

Output: [[["bat"], ["nat", "tan"], ["ate", "eat", "tea"]]]

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20. Valid Parentheses

Given a string `s` containing just the characters '(', ')', '{', '}', '[', and ']', determine if the input string is valid.

An input string is valid if:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.
3. Every close bracket has a corresponding open bracket of the same type.

Input: `s` = "()"

Output: true

Input: `s` = "()[]{}"

Output: true

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21. Longest Palindromic Substring

Given a string s, return the longest palindromic substring in s.

Input: s = "babad"

Output: "bab"

Explanation: "aba" is also a valid answer.

Input: s = "cbbd"

Output: "bb"

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22. Palindromic Substrings

Given a string s, return the number of palindromic substrings in it.

A string is a palindrome when it reads the same backward as forward.

A substring is a contiguous sequence of characters within the string.

Input: s = "abc"

Output: 3

Explanation: Three palindromic strings: "a", "b", "c".

Input: s = "aaa"

Output: 6

Explanation: Six palindromic strings: "a", "a", "a", "aa", "aa", "aaa".

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23. Encode and Decode Strings

Design an algorithm to encode a list of strings to a string. The encoded string is then sent over the network and decoded back to the original list of strings.

implement encode and decode

Input: ["lint", "code", "love", "you"]

Output: ["lint", "code", "love", "you"]

Explanation: One possible encode method is: "lint::code::love::you"

Input: ["we", "say", ":", "yes"]

Output: ["we", "say", ":", "yes"]

Explanation: One possible encode method is: "we::say::::yes"

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Linked List

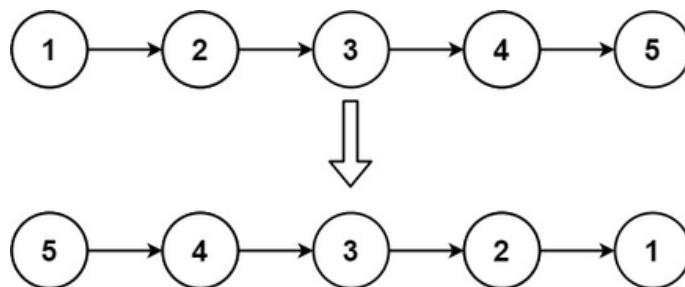
24. Reverse Linked Lists

Given the head of a singly linked list, reverse the list, and return the reversed list.

Input: head = [1,2,3,4,5]

Output: [5,4,3,2,1]

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25. Linked List Cycle

Given the head, the head of a linked list, determine if the linked list has a cycle in it.

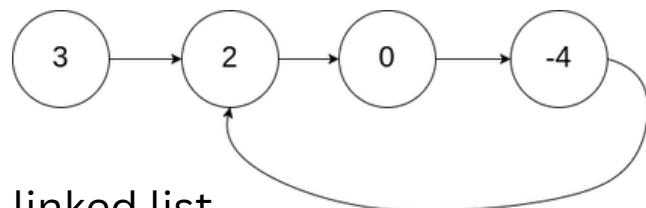
There is a cycle in a linked list if there is some node in the list that can be reached again by continuously following the next pointer. Internally, pos is used to denote the index of the node that the tail's next pointer is connected to. Note that pos is not passed as a parameter.

Return true if there is a cycle in the linked list. Otherwise, return false.

Input: head = [3,2,0,-4], pos = 1

Output: true

Explanation: There is a cycle in the linked list, where the tail connects to the 1st node (0-indexed).



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26. Merge Two Sorted Lists

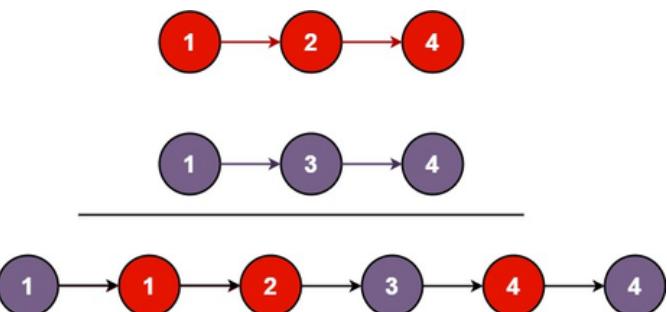
You are given the heads of two sorted linked lists `list1` and `list2`.
Merge the two lists in a one-sorted list. The list should be made by splicing together the nodes of the first two lists.

Return the head of the merged linked list.

Input: `list1 = [1,2,4]`, `list2 = [1,3,4]`

Output: `[1,1,2,3,4,4]`

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27. Merge k Sorted Lists

You are given an array of k linked-lists `lists`, each linked list is sorted in ascending order.

Merge all the linked lists into one sorted linked list and return it.

Input: `lists = [[1,4,5],[1,3,4],[2,6]]`

Output: `[1,1,2,3,4,4,5,6]`

Explanation: The linked lists are:

[

1->4->5,
1->3->4,
2->6

]

merging them into one sorted list:

1->1->2->3->4->4->5->6

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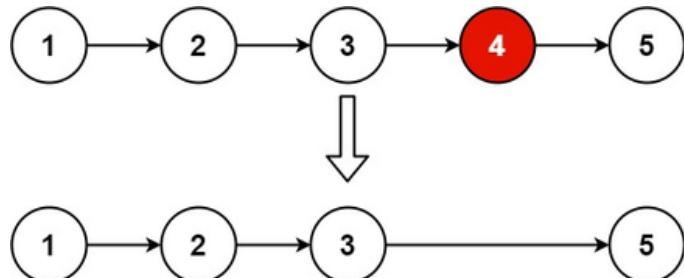
28. Remove Nth Node From End of List

Given the head of a linked list, remove the nth node from the end of the list and return its head.

Input: head = [1,2,3,4,5], n = 2

Output: [1,2,3,5]

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29. Reorder List

You are given the head of a singly linked list. The list can be represented as:

L₀ → L₁ → ... → L_{n - 1} → L_n

Reorder the list to be on the following form:

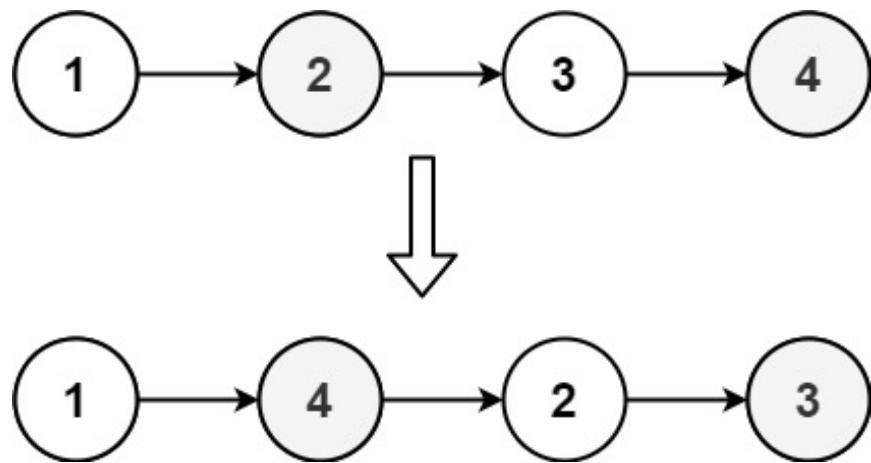
$L_0 \rightarrow L_n \rightarrow L_1 \rightarrow L_{n-1} \rightarrow L_2 \rightarrow L_{n-2} \rightarrow \dots$

You may not modify the values in the list's nodes. Only nodes themselves may be changed.

Input: head = [1,2,3,4]

Output: [1,4,2,3]

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Tree

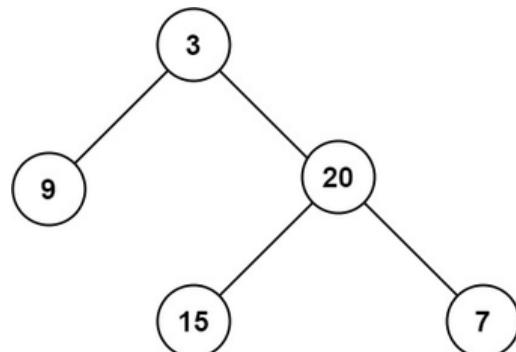
30. Maximum Depth of Binary Tree

Given the root of a binary tree, return its maximum depth.

A binary tree's maximum depth is the number of nodes along the longest path from the root node down to the farthest leaf node.

Input: root = [3,9,20,null,null,15,7]

Output: 3



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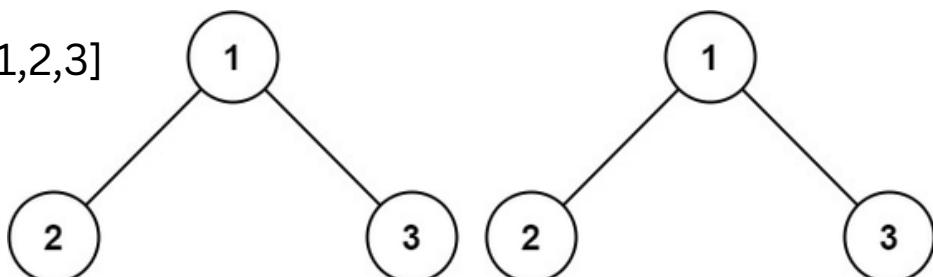
31. Same Tree

Given the roots of two binary trees p and q, write a function to check if they are the same or not.

Two binary trees are considered the same if they are structurally identical, and the nodes have the same value.

Input: p = [1,2,3], q = [1,2,3]

Output: true



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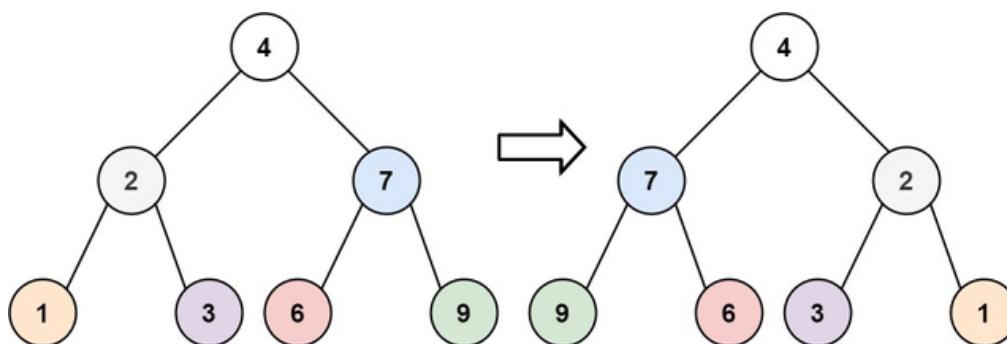


32. Invert Binary Tree

Given the root of a binary tree, invert the tree, and return its root.

Input: root = [4,2,7,1,3,6,9]

Output: [4,7,2,9,6,3,1]



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33. Binary Tree Maximum Path Sum

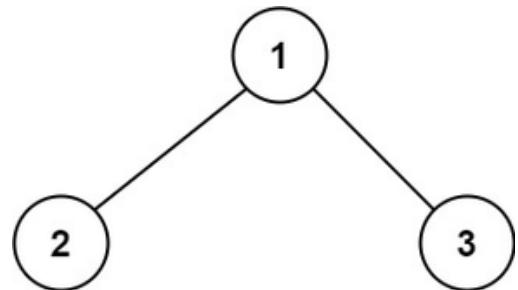
A path in a binary tree is a sequence of nodes where each pair of adjacent nodes in the sequence has an edge connecting them. A node can only appear in the sequence at most once. Note that the path does not need to pass through the root.

The path sum of a path is the sum of the node's values in the path. Given the root of a binary tree, return the maximum path sum of any non-empty path.

Input: root = [1,2,3]

Output: 6

Explanation: The optimal path is 2 -> 1 -> 3 with a path sum of $2 + 1 + 3 = 6$.



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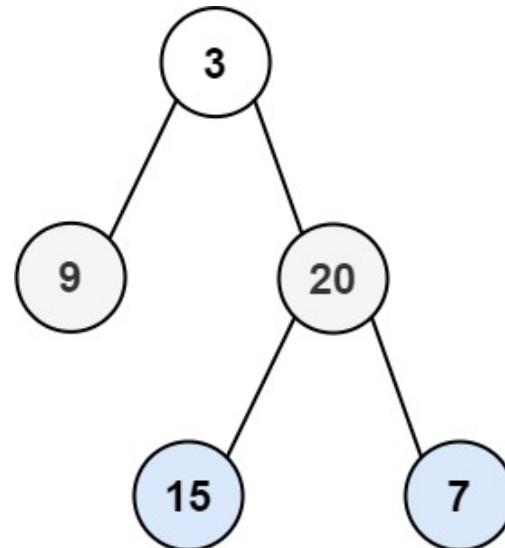
34. Binary Tree Level Order Traversal

Given the root of a binary tree, return the level order traversal of its nodes' values. (i.e., from left to right, level by level).

Input: root = [3,9,20,null,null,15,7]

Output: [[3],[9,20],[15,7]]

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35. Serialize & Deserialize Binary Tree

Serialization is the process of converting a data structure or object into a sequence of bits so that it can be stored in a file or memory buffer, or transmitted across a network connection link to be reconstructed later in the same or another computer environment.

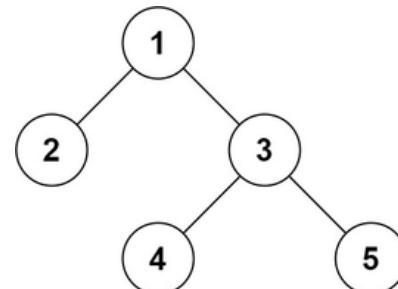
Design an algorithm to serialize and deserialize a binary tree. There is no restriction on how your serialization/deserialization algorithm should work.

You just need to ensure that a binary tree can be serialized to a string and this string can be deserialized to the original tree structure.

Input: root = [1,2,3,null,null,4,5]

Output: [1,2,3,null,null,4,5]

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36. Design Add and Search Words Data Structure

Design a data structure that supports adding new words and finding if a string matches any previously added string.

Implement the WordDictionary class:

- WordDictionary() Initializes the object.
- void addWord(word) Adds a word to the data structure, it can be matched later.
- bool search(word) Returns true if there is any string in the data structure that matches the word or false otherwise. A word may contain dots '.' where dots can be matched with any letter.

Input: ["WordDictionary", "addWord", "addWord", "addWord", "addWord", "search", "search", "search", "search"]
[[], ["bad"], ["dad"], ["mad"], ["pad"], ["bad"], [".ad"], ["b.."]]

Output: [null, null, null, null, false, true, true, true]

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37. Word Search II

Given an $m \times n$ board of characters and a list of strings words, return all words on the board. Each word must be constructed from letters of sequentially adjacent cells, where adjacent cells are horizontally or vertically neighboring. The same letter cell may not be used more than once in a word.

Input: board = [["o", "a", "a", "n"], ["e", "t", "a", "e"], ["i", "h", "k", "r"], ["i", "f", "l", "v"]], words = ["oath", "pea", "eat", "rain"]

Output: ["eat", "oath"]

o	a	a	n
e	t	a	e
i	h	k	r
i	f	l	v

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Heap

38. Merge k Sorted Lists

You are given an array of k linked-lists lists, each linked list is sorted in ascending order. Merge all the linked lists into one sorted linked list and return it.

Input: lists = [[1,4,5],[1,3,4],[2,6]]

Output: [1,1,2,3,4,4,5,6]

Explanation: The linked lists are:

```
[  
    1->4->5,  
    1->3->4,  
    2->6
```

] merging them into one sorted list:
1->1->2->3->4->4->5->6

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39. Top K Frequent Elements

Given an integer array nums and an integer k , return the k most frequent elements.

You may return the answer in any order.

Input: nums = [1,1,1,2,2,3], $k = 2$

Output: [1,2]

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40. Find Median from Data Stream

The median is the middle value in an ordered integer list. If the size of the list is even, there is no middle value, and the median is the mean of the two middle values.

- For example, for arr = [2,3,4], the median is 3.
- For example, for arr = [2,3], the median is $(2 + 3) / 2 = 2.5$.

Implement the MedianFinder class:

- MedianFinder() initializes the MedianFinder object.
- void addNum(int num) adds the integer num from the data stream to the data structure.
- double findMedian() returns the median of all elements so far.
Answers within 10⁻⁵ of the actual answer will be accepted.

Input: ["MedianFinder", "addNum", "addNum", "findMedian", "addNum", "findMedian"]
[], [1], [2], [], [3], []]

Output: [null, null, null, 1.5, null, 2.0]

Explanation:

```
MedianFinder medianFinder = new MedianFinder();
medianFinder.addNum(1);    // arr = [1]
medianFinder.addNum(2);    // arr = [1, 2]
medianFinder.findMedian(); // return 1.5 (i.e., (1 + 2) / 2)
medianFinder.addNum(3);    // arr[1, 2, 3]
medianFinder.findMedian(); // return 2.0
```

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Graph

41. Clone Graph

Given a reference of a node in a connected undirected graph.

Return a deep copy (clone) of the graph.

Each node in the graph contains a value (int) and a list (List[Node]) of its neighbors.

```
class Node {  
    public int val;  
    public List<Node> neighbors;  
}
```

Test case format:

For simplicity, each node's value is the same as the node's index (1-indexed). For example, the first node with val == 1, the second node with val == 2, and so on. The graph is represented in the test case using an adjacency list.

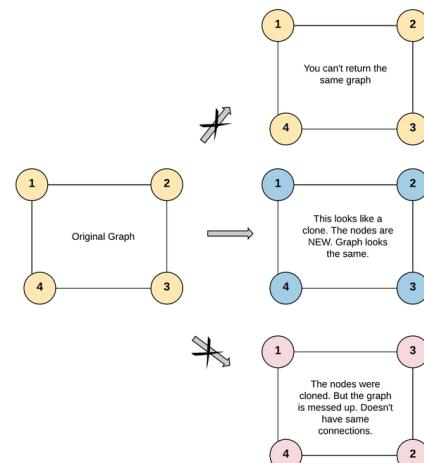
An **adjacency list** is a collection of unordered **lists** used to represent a finite graph. Each list describes the set of neighbors of a node in the graph.

The given node will always be the first node with val = 1.

You must return the **copy of the given node** as a reference to the cloned graph.

Input: adjList = [[2,4],[1,3],[2,4],[1,3]]

Output: [[2,4],[1,3],[2,4],[1,3]]



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42. Course Schedule

There are a total of numCourses courses you have to take, labeled from 0 to numCourses - 1. You are given an array of prerequisites where prerequisites[i] = [ai, bi] indicates that you must take course bi first if you want to take course ai.

- For example, the pair [0, 1], indicates that to take course 0 you have to first take course 1.

Return true if you can finish all courses. Otherwise, return false.

Input: numCourses = 2, prerequisites = [[1,0]]

Output: true

Explanation: There are a total of 2 courses to take.

To take course 1 you should have finished course 0. So it is possible.

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43. Number of Islands

Given an m x n 2D binary grid which represents a map of '1's (land) and '0's (water), return the number of islands.

An island is surrounded by water and is formed by connecting adjacent lands horizontally or vertically.

Input: grid = [["1","1","1","1","0"],
 ["1","1","0","1","0"],
 ["1","1","0","0","0"],
 ["0","0","0","0","0"]]

Output: 1

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44. Pacific Atlantic Water Flow

There is an $m \times n$ rectangular island that borders both the Pacific Ocean and the Atlantic Ocean. The Pacific Ocean touches the island's left and top edges, and the Atlantic Ocean touches the island's right and bottom edges.

The island is partitioned into a grid of square cells. You are given an $m \times n$ integer matrix `height` where `heights[r][c]` represent the height above sea level of the cell at coordinate (r, c) .

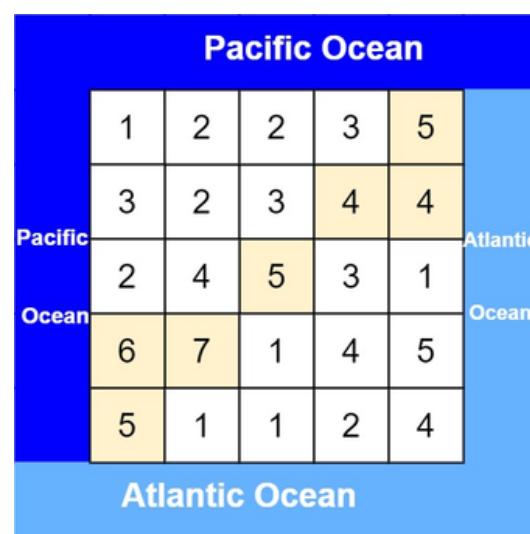
The island receives a lot of rain, and the rainwater can flow to neighboring cells directly north, south, east, and west if the neighboring cell's height is less than or equal to the current cell's height. Water can flow from any cell adjacent to an ocean into the ocean.

Return a 2D list of grid coordinates results where `result[i] = [ri, ci]` denotes that rainwater can flow from cell (ri, ci) to both the Pacific and Atlantic oceans.

Input: `heights = [[1,2,2,3,5],[3,2,3,4,4],[2,4,5,3,1],[6,7,1,4,5],[5,1,1,2,4]]`

Output: `[[0,4],[1,3],[1,4],[2,2],[3,0],[3,1],[4,0]]`

PRACTICE NOW





Dynamic Programming

45. Climbing Stairs

You are climbing a staircase. It takes n steps to reach the top. Each time you can either climb 1 or 2 steps. In how many distinct ways can you climb to the top?

Input: n = 2

Output: 2

Explanation: There are two ways to climb to the top.

1. 1 step + 1 step

2. 2 steps

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46. Coin Change

You are given an integer array of coins representing coins of different denominations and an integer amount representing a total amount of money.

Return the fewest number of coins that you need to make up that amount. If that amount of money cannot be made up by any combination of the coins, return -1.

Input: coins = [1,2,5], amount = 11

Output: 3

Explanation: $11 = 5 + 5 + 1$

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Bitwise Operator

47. Sum of Two Integers

Given two integers a and b , return the sum of the two integers without using the operators $+$ and $-$.

Input: $a = 1$, $b = 2$

Output: 3

Input: $a = 2$, $b = 3$

Output: 5

PRACTICE NOW

48. Number of 1 Bit

Write a function that takes the binary representation of an unsigned integer and returns the number of '1' bits it has (also known as the Hamming weight).

Input: $n = 00000000000000000000000000001011$

Output: 3

Explanation: The input binary string

00000000000000000000000000001011 has a total of three '1' bits.

PRACTICE NOW



49. Counting Bits

Given an integer n , return an array of length $n + 1$ such that for each i ($0 \leq i \leq n$), $\text{ans}[i]$ is the number of 1's in the binary representation of i .

Input: $n = 2$

Output: [0,1,1]

Explanation:

0 --> 0

1 --> 1

2 --> 10

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50. Missing Number

Given an array nums containing n distinct numbers in the range $[0, n]$, return the only number in the range that is missing from the array.

Input: $\text{nums} = [3,0,1]$

Output: 2

Explanation: $n = 3$ since there are 3 numbers, so all numbers are in the range $[0,3]$. 2 is the missing number in the range since it does not appear in nums .

Input: $\text{nums} = [0,1]$

Output: 2

Explanation: $n = 2$ since there are 2 numbers, so all numbers are in the range $[0,2]$. 2 is the missing number in the range since it does not appear in nums .

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