Transformer AI

The Leet-Code Engineer

A Book

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# Overview

Leet-Code has changed the coding landscape. The level of skill and quality of engineering delivered to organizations has revolutionized the Technology Industry Landscape. What the leet-code practiced engineer can render to any problem-domain, the speed at which they can do it and the quality of code that they deliver is the reason and motivation behind this book.

## Leet-Code Problem Sets

* Amazon Problems
  + 1, Two-Sum
  + 3, Longest Substring without Repeating Chars
  + 8, String to Integer
  + 11, Container with the Most Water
  + 12, Integer to Roman
  + 13, Roman to Integer
  + 15, 3-Sum
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  + 48, Rotate Image
  + 49, Group Anagrams
  + 76, Minimum Window Substring
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  + 238, Product of Array Except Self
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  + 273, Integer to English Words
  + 387, First Unique Character in a String
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  + 2, Add Two Numbers
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  + 98, Validate Binary Search Tree
  + 101, Symmetric Tree
  + 102, Binary Tree, Level Order Traversal
  + 103, Binary Tree, ZigZag Order Traversal
  + 124, Binary Tree, Maximum Path Sum
  + 126, Word Ladder II
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  + 200, Number of Islands
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  + 5, Longest Palindrome Substring
  + 53, Maximum Subarray
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  + 348, Design Tic-Tac-Toe
  + 642, Design Search Auto-Complete System
  + 895, Maximum Frequency Stack
  + 7, Reverse Integer
  + 176, Second Highest Salary
  + 763, Partition Labels
  + 957, Prison Cells after N Days
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  + 1140, Stone Game II
  + 54, Spiral Matrix
  + 542, 01 Matrix
  + 766, Toeplitz Matrix
  + 867, Transpose Matrix
  + 59, Spiral Matrix II
  + 73, Set Matrix Zeroes
  + 311, Sparse Matrix Multiplication
  + 566, Reshape the Matrix
  + 756, Pyramid Transition Matrix
  + 519, Random Flip Matrix
  + 885, Spiral Matrix III
  + 1314, Matrix Block Sum
  + 1572, Matrix Diagonal Sum
  + 1975, Maximum Matrix Sum
  + 2326, Spiral Matrix IV
  + 2906, Construct Product Matrix
  + 3033, Modify the Matrix
  + 3248, Snake in Matrix
  + 74, Search a 2D Matrix
  + 861, Score after Flipping Matrix
  + 1329, Sort the Matrix Diagonally
  + 2679, Sum in a Matrix
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  + 971, Flip binary tree to match pre-order traversal
  + 2019, The Score of Students Solving Math Expression
  + 3034, Numbers of Sub-arrays that match a pattern I
  + 3036, Numbers of Sub-arrays that match a pattern II

# 1, Two-Sum

## Description

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

## Test Examples and Constraints

**Example 1:**

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

**Output:** [0,1]

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

**Example 2:**

**Input:** nums = [3,2,4], target = 6

**Output:** [1,2]

**Example 3:**

**Input:** nums = [3,3], target = 6

**Output:** [0,1]

**Constraints:**

* 2 <= nums.length <= 104
* -109 <= nums[i] <= 109
* -109 <= target <= 109
* **Only one valid answer exists.**

**Follow-up:**Can you come up with an algorithm that is less than O(n2) time complexity?

## Solution

from typing import List

class Solution:

    def twoSum(self, nums: List[int], target: int) -> List[int]:

        i = 0

        nxt = i + 1

        while nxt < len(nums):

            if nums[i] + nums[nxt] == target:

                return [i, nxt]

            i += 1

            nxt += 1

# 3, Longest Substring without Repeating Chars

## Description

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

## Test Examples and Constraints

**Example 1:**

**Input:** s = "abcabcbb"

**Output:** 3

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

**Example 2:**

**Input:** s = "bbbbb"

**Output:** 1

**Explanation:** The answer is "b", with the length of 1.

**Example 3:**

**Input:** s = "pwwkew"

**Output:** 3

**Explanation:** The answer is "wke", with the length of 3.

Notice that the answer must be a substring, "pwke" is a subsequence and not a substring.

**Constraints:**

* 0 <= s.length <= 5 \* 104
* s consists of English letters, digits, symbols and spaces.

## Solution

# 8, String to Integer

## Description

## Test Examples and Constraints

## Solution

# 11, Container with the Most Water

## Description

## Test Examples and Constraints

## Solution

# 12, Integer to Roman

## Description

## Test Examples and Constraints

## Solution

# 13, Roman to Integer

## Description

## Test Examples and Constraints

## Solution

# 15, 3-Sum

## Description

## Test Examples and Constraints

## Solution

# 16, 3-Sum Closest

## Description

## Test Examples and Constraints

## Solution

# , Implement StrStr

## Description

## Test Examples and Constraints

## Solution

# 48, Rotate Image

## Description

## Test Examples and Constraints

## Solution

# 49, Group Anagrams

## Description

## Test Examples and Constraints

## Solution

# 76, Minimum Window Substring

## Description

## Test Examples and Constraints

## Solution

# 165, Compare Version Numbers

## Description

## Test Examples and Constraints

## Solution

# 238, Product of Array Except Self

## Description

## Test Examples and Constraints

## Solution

# 268, Missing Number

## Description

## Test Examples and Constraints

## Solution

# 273, Integer to English Words

## Description

## Test Examples and Constraints

## Solution

# 387, First Unique Character in a String

## Description

## Test Examples and Constraints

## Solution

# 678, Valid Parenthesis

## Description

## Test Examples and Constraints

## Solution

# 819, Most Common Word

## Description

## Test Examples and Constraints

## Solution

# 937, Re-Order Log Files

## Description

## Test Examples and Constraints

## Solution

# 42, Trapping Rain Water

## Description

## Test Examples and Constraints

## Solution

# 2, Add Two Numbers

## Description

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