



Leetcode.typ

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0001. Two Sum

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.

nums	target	answer	yours
[2, 7, 11, 15]	9	[0, 1]	none
[3, 2, 4]	6	[1, 2]	none
[3, 3]	6	[0, 1]	none
[0, 0]	1	[-1, -1]	none
[1, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52, 55, 58, 61, 64, 67, 70, 73, 76, 79, 82, 85, 88, 91, 94, 97]	191	[31, 32]	none

0002. Add Two Numbers

You are given two **non-empty** linked lists representing two non-negative integers. The digits are stored in **reverse order**, and each of their nodes contains a single digit. Add the two numbers and return the sum as a linked list.

You may assume the two numbers do not contain any leading zero, except the number 0 itself.

l1	l2	answer	yours
2 -> 4 -> 3	5 -> 6 -> 4	7 -> 0 -> 8	none
0	0	0	none
9 -> 9 -> 9 -> 9 -> 9 -> 9 -> 9	9 -> 9 -> 9 -> 9	8 -> 9 -> 9 -> 9 -> 0 -> 0 -> 0 -> 1	none
2 -> 4 -> 3	5 -> 6 -> 4 -> 9	7 -> 0 -> 8 -> 9	none

0003. Longest Substring Without Repeating Characters

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

<code>s</code>	<code>answer</code>	<code>yours</code>
<code>"abcabcbb"</code>	3	none
<code>"bbbbbb"</code>	1	none
<code>"pwwkew"</code>	3	none

0004. Median of Two Sorted Arrays

Given two sorted arrays `nums1` and `nums2` of size `m` and `n` respectively, return the **median** of the two sorted arrays.

The overall run time complexity should be $\mathcal{O}(\log(m + n))$.

nums1	nums2	answer	yours
[1, 3]	[2]	2	none
[1, 2]	[3, 4]	2.5	none
[0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99]	[0, 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 126, 132, 138, 144, 150, 156, 162, 168, 174, 180, 186, 192, 198]	66.0	none

0005. Longest Palindromic Substring

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

<code>s</code>	<code>answer</code>	<code>yours</code>
"babad"	"bab"	none
"cbbd"	"bb"	none
"abcdefgfedcbb"	"bcdefgfedcb"	none
"acctt"	"ccc"	none
"a"	"a"	none
"aa"	"aa"	none
"asasfsafdaasfsaasa"	"aasfsaa"	none

0006. Zigzag Conversion

The string "PAYPALISHIRING" is written in a zigzag pattern on a given number of rows like this:

```
P   A   H   N
A P L S I I G
Y   I   R
```

And then read line by line: "PAHNAPLSIIGYIR"

Write the code that will take a string and make this conversion given a number of rows.

s	numRows	answer	yours
"PAYPALISHIRING"	3	"PAHNAPLSIIGYIR"	none
"PAYPALISHIRING"	4	"PINALSIGYAHRPI"	none
"A"	1	"A"	none

0007. Reverse Integer

Given a signed 32-bit integer x , return x with its digits reversed. If reversing x causes the value to go outside the signed 32-bit integer range $[-2^{31}, 2^{31} - 1]$, then return 0.

Assume the environment does not allow you to store 64-bit integers (signed or unsigned).

x	answer	yours
123	321	none
-123	-321	none
120	21	none
0	0	none
23498423	32489432	none
-213898800	-8898312	none
1534236469	0	none
2147483647	0	none
-2147483648	0	none

0008. String to Integer (atoi)

Implement the `myAtoi(string s)` function, which converts a string to a 32-bit signed integer (similar to C/C++'s `atoi` function).

The algorithm for `myAtoi(string s)` is as follows:

1. Read in and ignore any leading whitespace.
2. Check if the next character (if not already at the end of the string) is '-' or '+'. Read this character in if it is either. This determines if the final result is negative or positive respectively. Assume the result is positive if neither is present.
3. Read in next the characters until the next non-digit character or the end of the input is reached. The rest of the string is ignored.
4. Convert these digits into an integer (i.e. "123" -> 123, "0032" -> 32). If no digits were read, then the integer is 0. Change the sign as necessary (from step 2).
5. If the integer is out of the 32-bit signed integer range $[-2^{31}, 2^{31} - 1]$, then clamp the integer so that it remains in the range. Specifically, integers less than -2^{31} should be clamped to -2^{31} , and integers greater than $2^{31} - 1$ should be clamped to $2^{31} - 1$.
6. Return the integer as the final result.

Note:

- Only the space character ' ' is considered a whitespace character.
- **Do not ignore** any characters other than the leading whitespace or the rest of the string after the digits.

s	answer	yours
"42"	42	none
" -42"	-42	none
"4193 with words"	4193	none

0009. Palindrome Number

Given an integer `x`, return `true` if `x` is a **palindrome**, and `false` otherwise.

x	answer	yours
121	true	none
-121	false	none
10	false	none

0010. Regular Expression Matching

Given an input string s and a pattern p , implement regular expression matching with support for $'.'$ and $'*'$ where:

- $'.'$ Matches any single character.
- $'*'$ Matches zero or more of the preceding element.

The matching should cover the **entire** input string (not partial).

s	p	answer	yours
"aa"	"a"	false	none
"aa"	"a*"	true	none
"ab"	"*"	true	none
"aab"	"c*a*b"	true	none
"mississippi"	"mis*is*p*."	false	none
"ab"	".*c"	false	none
"ab"	".*c*"	true	none
"香蕉x牛奶"	"香.*牛."	true	none

0011. 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 $(i, \text{height}[i])$.

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.

Notice that you may not slant the container.

height	answer	yours
[1, 8, 6, 2, 5, 4, 8, 3, 7]	49	none
[1, 1]	1	none

0012. Integer to Roman

Roman numerals are represented by seven different symbols: I, V, X, L, C, D and M.

Symbol	Value
I	1
V	5
X	10
L	50
C	100
D	500
M	1000

For example, 2 is written as II in Roman numeral, just two one's added together. 12 is written as XII, which is simply X + II. The number 27 is written as XXVII, which is XX + V + II.

Roman numerals are usually written largest to smallest from left to right. However, the numeral for four is not IIII. Instead, the number four is written as IV. Because the one is before the five we subtract it making four. The same principle applies to the number nine, which is written as IX. There are six instances where subtraction is used:

- I can be placed before V (5) and X (10) to make 4 and 9.
- X can be placed before L (50) and C (100) to make 40 and 90.
- C can be placed before D (500) and M (1000) to make 400 and 900.

Given an integer, convert it to a roman numeral.

num	answer	yours
3	"III"	none
58	"LVIII"	none
1994	"MCMXCIV"	none

0013. Roman to Integer

Roman numerals are represented by seven different symbols: I, V, X, L, C, D and M.

Symbol	Value
I	1
V	5
X	10
L	50
C	100
D	500
M	1000

For example, 2 is written as II in Roman numeral, just two one's added together. 12 is written as XII, which is simply X + II. The number 27 is written as XXVII, which is XX + V + II.

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- C can be placed before D (500) and M (1000) to make 400 and 900.

Given a roman numeral, convert it to an integer.

s	answer	yours
"III"	3	none
"LVIII"	58	none
"MCMXCIV"	1994	none

0014. Longest Common Prefix

Write a function to find the longest common prefix string amongst an array of strings.

If there is no common prefix, return an empty string "".

strs	answer	yours
["flower", "flow", "flight"]	"fl"	none
["dog", "racecar", "car"]	""	none

0015. 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.

nums	answer	yours
[-1, 0, 1, 2, -1, -4]	[[-1, -1, 2], [-1, 0, 1]]	none
[0, 1, 1]	[]	none
[0, 0, 0]	[[0, 0, 0]]	none
[-10, -7, -4, -1, 2, 5, 8, 11, 14, 17]	[[-10, -7, 17], [-10, -4, 14], [-10, -1, 11], [-10, 2, 8], [-7, -4, 11], [-7, -1, 8], [-7, 2, 5], [-4, -1, 5]]	none
[-10, -9, -8, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9]	[[-10, 1, 9], [-10, 2, 8], [-10, 3, 7], [-10, 4, 6], [-9, 0, 9], [-9, 1, 8], [-9, 2, 7], [-9, 3, 6], [-9, 4, 5], [-8, -1, 9], [-8, 0, 8], [-8, 1, 7], [-8, 2, 6], [-8, 3, 5], [-7, -2, 9], [-7, -1, 8], [-7, 0, 7], [-7, 1, 6], [-7, 2, 5], [-7, 3, 4], [-6, -3, 9], [-6, -2, 8], [-6, -1, 7], [-6, 0, 6], [-6, 1, 5], [-6, 2, 4], [-5, -4, 9], [-5, -3, 8], [-5, -2, 7], [-5, -1, 6], [-5, 0, 5], [-5, 1, 4], [-5, 2, 3], [-4, -3, 7], [-4, -2, 6], [-4, -1, 5], [-4, 0, 4], [-4, 1, 3], [-3, -2, 5], [-3, -1, 4], [-3, 0, 3], [-3, 1, 2], [-2, -1, 3], [-2, 0, 2], [-1, 0, 1]]	none

0016. 3Sum Closest

Given an integer array `nums` of length `n` and an integer `target`, find three integers in `nums` such that the sum is closest to `target`.

Return the sum of the three integers.

You may assume that each input would have exactly one solution.

nums	target	answer	yours
[-1, 2, 1, -4]	1	2	none
[0, 0, 0]	1	0	none
[0, 1, 1]	2	2	none
[-10, -7, -4, -1, 2, 5, 8, 11, 14, 17]	20	21	none
[-10, -9, -8, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9]	30	24	none

0017. Letter Combinations of a Phone Number

Given a string containing digits from 2-9 inclusive, return all possible letter combinations that the number could represent. Return the answer in **any order**.

A mapping of digits to letters (just like on the telephone buttons) is given below. Note that 1 does not map to any letters.



digits	answer	yours
"23"	["ad", "bd", "cd", "ae", "be", "ce", "af", "bf", "cf"]	none
""	[]	none
"2"	["a", "b", "c"]	none