

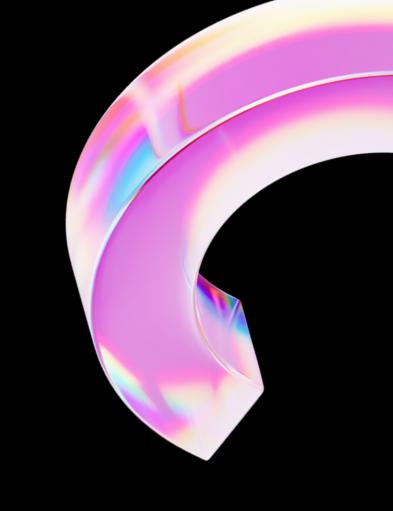


ENSKILL CLUB



Saturday (08-04-2023) Timings - 9:30am - 11:30am

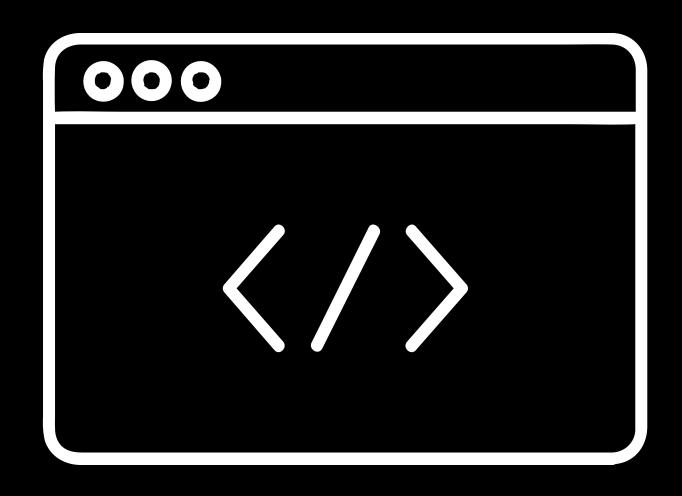
Envision Engage Enforce



Rues

Who said there is one, no rules just learn | enjoy | code .

Code in any programming language.



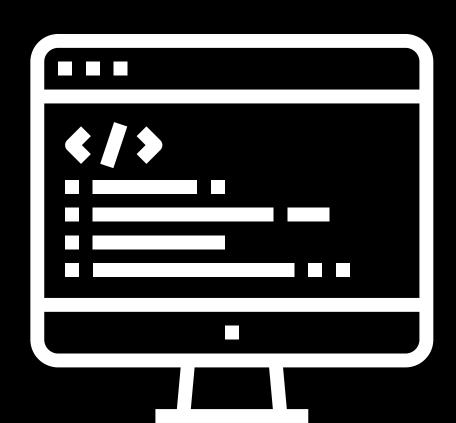




Questions

There are Three leves of problems:

- Easy
- Medium
- Hard



Q1. Write a progam to find Number of Closed Islands

HARD

Given a 2D grid consists of 0s (land) and 1s (water). An island is a maximal 4-directionally connected group of 0's and a closed island is an island totally (all left, top, right, bottom) surrounded by 1's.

Return the number of closed islands.

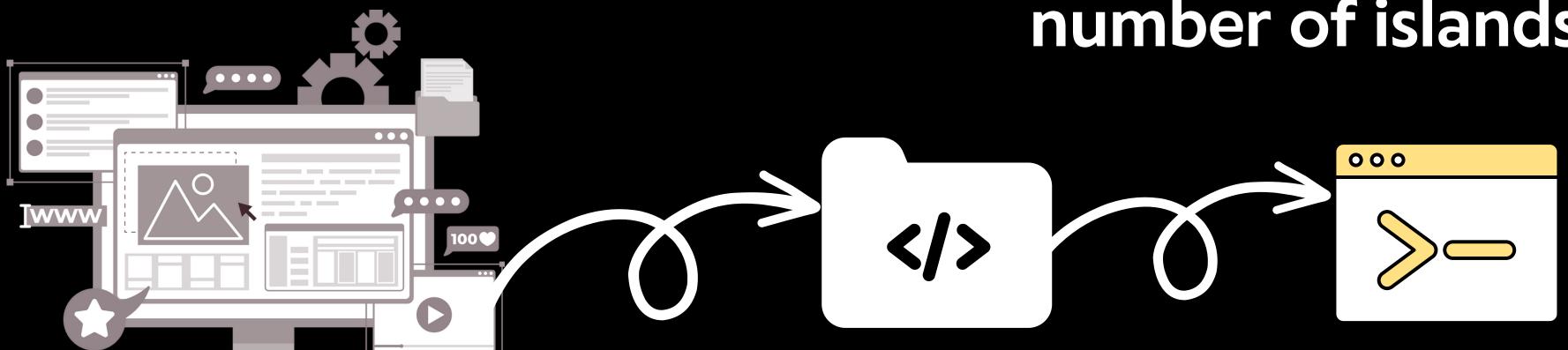


Inputs:

- 1. [[0,0,1,0,0],[0,1,0,1,0],[0,1,1,1,0]]
- 2. [[1,1,1,1,1,1,1,0],[1,0,0,0,0,1,1,0],[1,0,1,0,1,1,1,0], [1,0,0,0,0,1,0,1],[1,1,1,1,1,1,1,1,0]]

Expected Output:

number of islands



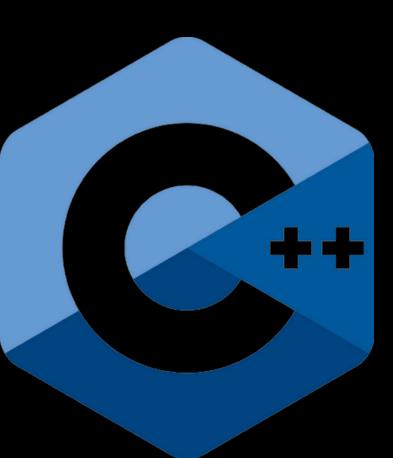
Q2. Write a progam for Regular Expression Matching

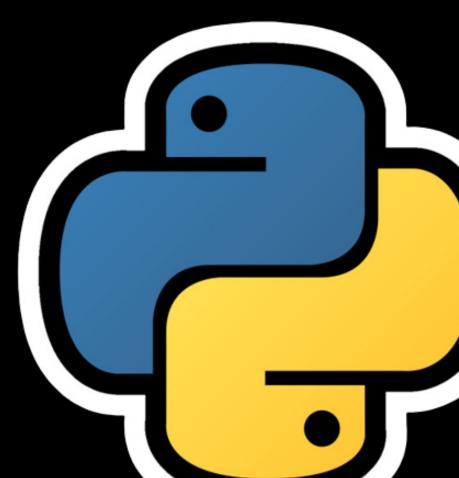
MEDIUM

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

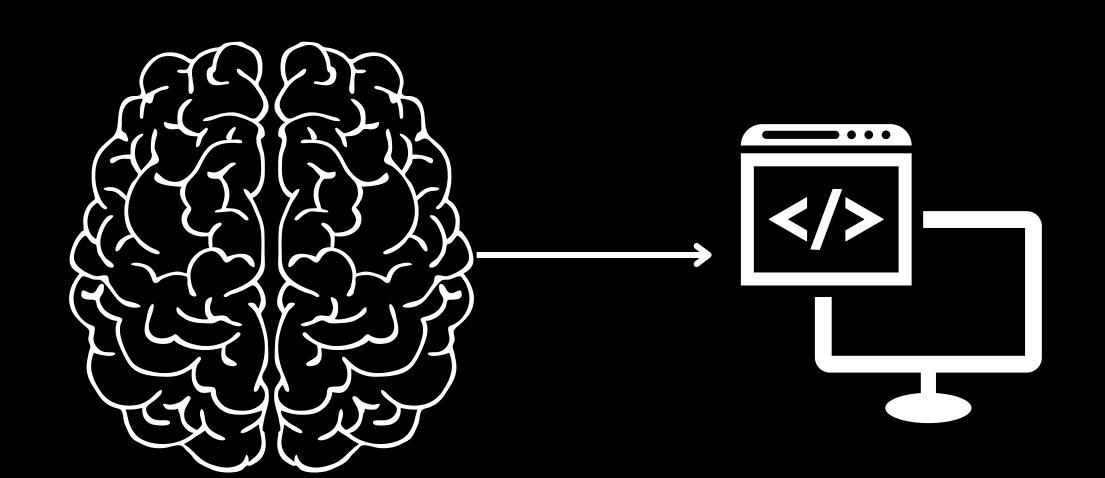
- '.' Matches any single character.
- '*' Matches zero or more of the preceding element.

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





inputs:



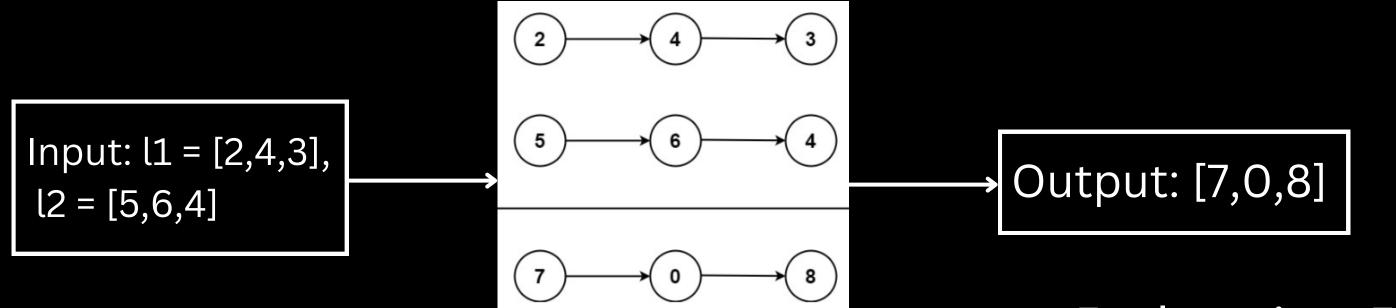


Expected Output:

True Or False

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.



Explanation: 342 + 465 = 807.

inputs:

1. l1 = [2,4,6], l2 = [3,5,6]

2.11 = [9,9,9,9,9,9,9], 12 = [9,9,9,9,9]



Expected Output:

Single list as the sum



POINTS:

HARD	10
MEDIUM	5
EASY	3
GITHUB	
PARTICIPANTION	

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