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Α

Practice

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The Palindrome Pattern □



Difficulty: Hard

Accuracy: 55.18%

Submissions: 18K+

Points: 8

Given a two-dimensional integer array **arr** of dimensions **n x n**, consisting solely of zeros and ones, identify the row or column (using 0-based indexing) where all elements form a palindrome. If multiple palindromes are identified, prioritize the palindromes found in rows over those in columns. Within rows or columns, the palindrome with the smaller index takes precedence. The result should be represented by the index followed by either 'R' or 'C', indicating whether the palindrome was located in a row or column. The output should be space-separated. If no palindrome is found, return the string **-1**.

Examples:

Input:

arr[][] = [[1, 0, 0], [0, 1, 0],

[1, 1, 0]]

Output: 1 R

Explanation: In the first test case, 0-1-0 is a palindrome

occuring in a row having index 1.

Input:

arr[][] = [[1, 0], [1, 0]]

Output: 0 C

Explanation: 1-1 occurs before 0-0 in the 0th column. And there is no palindrome in

the two rows.

Expected Time Complexity: O(n²)

Expected Auxiliary Space: O(1)

Constraints:

1<= arr.size <= 50

 $0 \le arr[i][j] \le 1$

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Seen this question in a real interview before?





Topic Tags

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```
Start Timer (>)
                                                                      Python3
    #User function Template for python3
 1
 2
 3
    class Solution:
 4
        def pattern(self, arr):
 5
            n = len(arr)
6
            # Check rows for palindrome
 7
            for i in range(n):
8
9
                if arr[i] == arr[i][::-1]:
                    return str(i) + " R"
10
11
            # Check columns for palindrome
12
13
            for j in range(n):
                column = [arr[i][j] for i in range(n)]
14
                if column == column[::-1]:
15
                    return str(j) + " C"
16
17
            return "-1"
18
19
20
21
    # } Driver Code Ends
22
```



Menu

<u>Custom Input</u>

Compile & Run

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