Problem 2352: Equal Row and Column Pairs

Problem Information

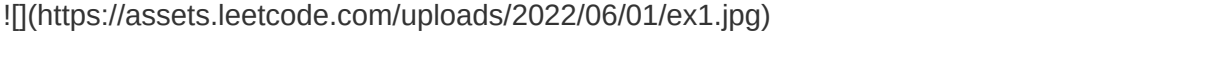
Difficulty: Medium
Acceptance Rate: 70.69%
Paid Only: No
Tags: Array, Hash Table, Matrix, Simulation

Problem Description

Given a **0-indexed** `n x n` integer matrix `grid`, _return the number of pairs_`(ri, cj)`_such that row_`ri` _and column_`cj` _are equal_.

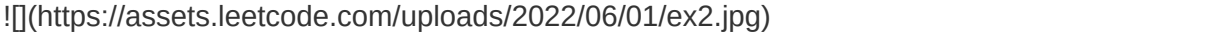
A row and column pair is considered equal if they contain the same elements in the same order (i.e., an equal array).

Example 1:



Input: grid = [[3,2,1],[1,7,6],[2,7,7]] **Output:** 1 **Explanation:** There is 1 equal row and column pair: - (Row 2, Column 1): [2,7,7]

Example 2:



Input: grid = [[3,1,2,2],[1,4,4,5],[2,4,2,2],[2,4,2,2]] **Output:** 3 **Explanation:** There are 3 equal row and column pairs: - (Row 0, Column 0): [3,1,2,2] - (Row 2, Column 2): [2,4,2,2] - (Row 3, Column 2): [2,4,2,2]

Constraints:

* `n == grid.length == grid[i].length` * `1 <= n <= 200` * `1 <= grid[i][j] <= 105`

Code Snippets

C++:

```
class Solution {
public:
int equalPairs(vector<vector<int>>& grid) {

}
};
```

Java:

```
class Solution {
public int equalPairs(int[][] grid) {

}
}
```

Python3:

```
class Solution:
def equalPairs(self, grid: List[List[int]]) -> int:
```