Problem 498: Diagonal Traverse

Problem Information

Difficulty: Medium
Acceptance Rate: 66.78%
Paid Only: No
Tags: Array, Matrix, Simulation

Problem Description

Given an `m x n` matrix `mat`, return _an array of all the elements of the array in a diagonal order_.

Example 1:

Input: mat = [[1,2,3],[4,5,6],[7,8,9]] **Output:** [1,2,4,7,5,3,6,8,9]

Example 2:

Input: mat = [[1,2],[3,4]] **Output:** [1,2,3,4]

Constraints:

* `m == mat.length` * `n == mat[i].length` * `1 <= m, n <= 104` * `1 <= m * n <= 104` * `-105 <= mat[i][j] <= 105`

Code Snippets

C++:

```
class Solution {
public:
vector<int> findDiagonalOrder(vector<vector<int>>& mat) {
```

```
    }
};
```

Java:

```
class Solution {
public int[] findDiagonalOrder(int[][] mat) {


}
}
```

Python3:

```
class Solution:
def findDiagonalOrder(self, mat: List[List[int]]) -> List[int]:
```