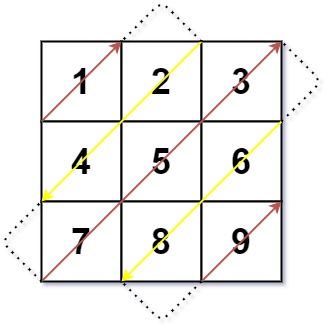
**Diagonal Traverse**

<https://leetcode.com/explore/learn/card/array-and-string/202/introduction-to-2d-array/1167/>

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