542. 01 Matrix

Difficulty: Medium

https://leetcode.com/problems/01-matrix

Given an m \times n binary matrix mat, return the distance of the nearest 0 for each cell.

The distance between two adjacent cells is 1.

Example 1:

0	0	0
0	1	0
0	0	0

Input: mat = [[0,0,0],[0,1,0],[0,0,0]]
Output: [[0,0,0],[0,1,0],[0,0,0]]

Example 2:

0	0	0
0	1	0
1	1	1

Input: mat = [[0,0,0],[0,1,0],[1,1,1]]
Output: [[0,0,0],[0,1,0],[1,2,1]]

Constraints:

- m == mat.length
- n == mat[i].length
- 1 <= m, n <= 10^4
- 1 <= $m * n <= 10^4$
- mat[i][j] is either 0 or 1.
- There is at least one 0 in mat.