Given a matrix consists of 0 and 1, find the distance of the nearest 0 for each cell.

The distance between two adjacent cells is 1.

**Example 1:**

**Input:**

[[0,0,0],

[0,1,0],

[0,0,0]]

**Output:**

[[0,0,0],

 [0,1,0],

 [0,0,0]]

**Example 2:**

**Input:**

[[0,0,0],

[0,1,0],

[1,1,1]]

**Output:**

[[0,0,0],

[0,1,0],

[1,2,1]]

**Note:**

1. The number of elements of the given matrix will not exceed 10,000.
2. There are at least one 0 in the given matrix.
3. The cells are adjacent in only four directions: up, down, left and right.