**Zombie Avoidance**

Welcome to the Zombie Avoidance Challenge! Your task is to safely navigate a map infested with zombies. The mission is to ensure that you follow a path that keeps you at the maximum distance from any zombie, considering that they have a fixed position. As you traverse the map from the upper left corner (0,0) to the lower right corner (n-1, m-1) you are also allowed to pass through cells that contain zombies.

Calculate the **maximum safeness score** of your map, which is defined as the minimum Manhattan distance from any cell in the path to any zombie on the map.

**Input**

You are given a 0-indexed 2D matrix of size n x m, where (a, b) represents:

* a cell containing a zombie if matrix[a][b] = 1
* an empty cell if matrix [a][b] = 0

**Output**

The **maximum safeness score** of all paths from (0,0) to (n-1, m-1).

**Example**

Input: Output : 2

0 0 1

0 0 0

0 0 0

Explanation:

The safest path: (0,0) ; (1,0) ; (2, 0) ; (2, 1) ; (2,2) has safeness score of 2 since the closest cell of the path to the zombie at cell (0, 2) is cell (0, 0) and the Manhattan distance between these 2 points is 2.