Given a m x n matrix grid which is sorted in non-increasing order both row-wise and column-wise, return *the number of* ***negative*** *numbers in* grid.

**Example 1:**

Input: grid = [[4,3,2,-1],[3,2,1,-1],[1,1,-1,-2],[-1,-1,-2,-3]]  
Output: 8  
Explanation: There are 8 negatives number in the matrix.

**Example 2:**

Input: grid = [[3,2],[1,0]]  
Output: 0

**Constraints:**

* m == grid.length
* n == grid[i].length
* 1 <= m, n <= 100
* -100 <= grid[i][j] <= 100

**Follow up:** Could you find an O(n + m) solution?