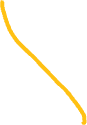


We start by going through the first column then the first row. They both can only have matrix of size 1x1 containing 1. We add it the count if the current element is 1.

Iteration of first row ranges from 1 to 3 because element at 0 already counted in first column so we don’t want to add twice.



At the current position we check 3 neighboors: the left, the diagonal and the top in the cumulative matrix. If the minimum of the 3 spot is 1 we know for sure all 3 spot are 1 and we add 1 (current position).







Not enough 1 to make 2x2 matrix

