

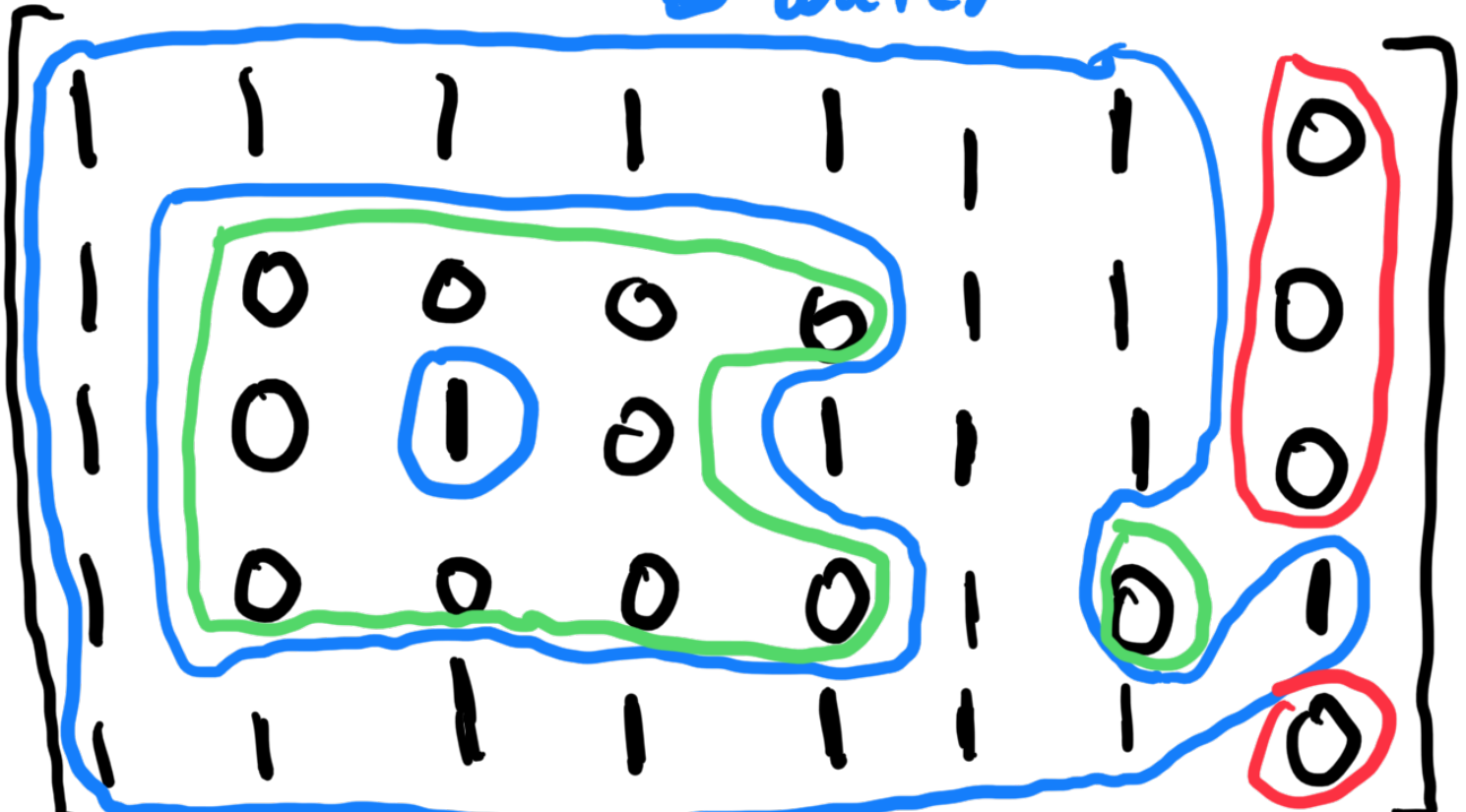
1254. Number of Closed Islands

Given: $n \times n$ grid - grid

Island: Maximal 4 directionally
connected group of 0s :

a closed island is an island totally surrounded by ls.

Return: number of closed islands



Solution: dfs

Step 1: Destroy all islands connected to the border (dfs 1)

Step 2: Count remaining islands (dfs 2)

Note: we can use the same dfs function w/ a "destroy" flag

Time: $O(M \times N)$

Space: $O(M \times N)$