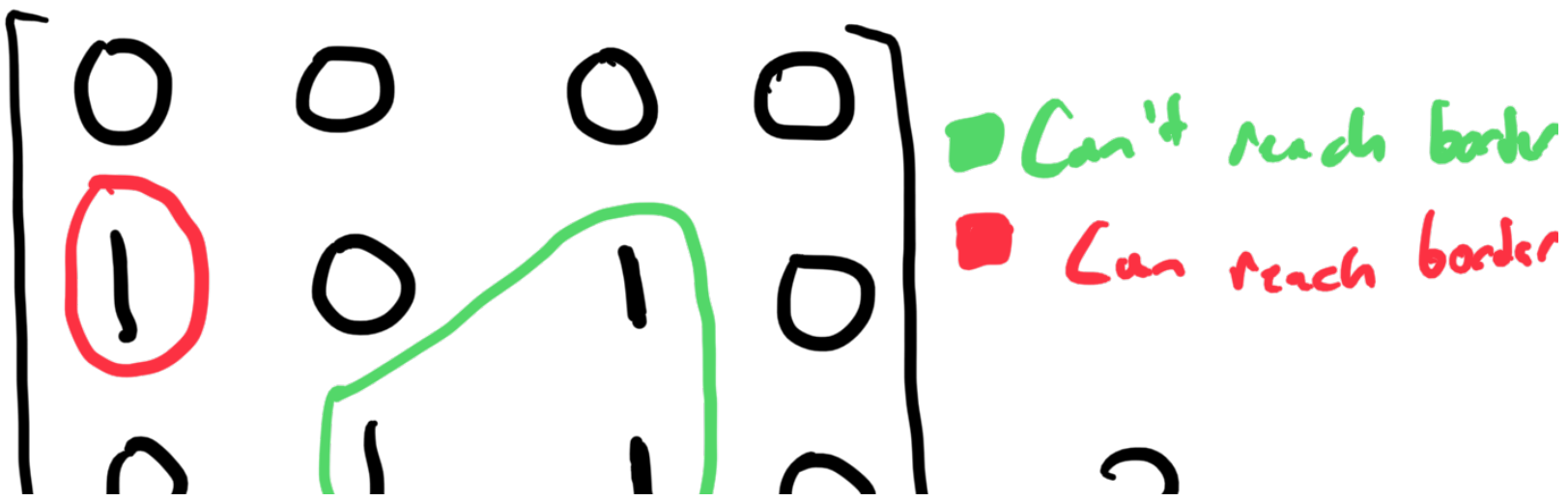
1020. Number of Enclaves

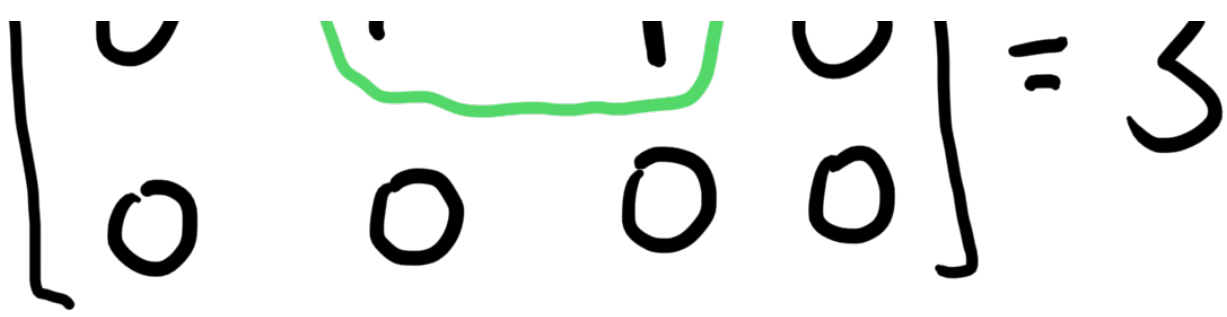
Given: mxn binary matrix-grid

0 = water
1 = land

MOVE: walking from 1 land cell to another 4 directionally connected cell

Return: # of land cells where we can never walk off the grid from in any # of moves





Solution: destroy all border-connected islands, count remaining 1 cells.

```
# destroy islands connected to top/bottom
For col = 0 to col = n-1
    destroy(row = 0, col = col)
    destroy(row = m-1, col = col)
# destroy islands connected to left/right
For row = 0 to row = m-1
    destroy(row = row, col = 0)
    destroy(row = row, col = n-1)
# destroy dfs
destroy(row, col)
    if OOB or grid[row][col]
        is water: return
```

```
        grid[row][col] = 0
        destroy(neighbors...)
answer = 0
Foreach row, col:
    if grid[row][col] == 1:
        answer += 1

return answer
```

Time: $O(M \times N)$

Space: $O(M \times N)$