200. Number of Islands

Given: mxn binary gaid-gaid • 1 = 1 and • 0 = water

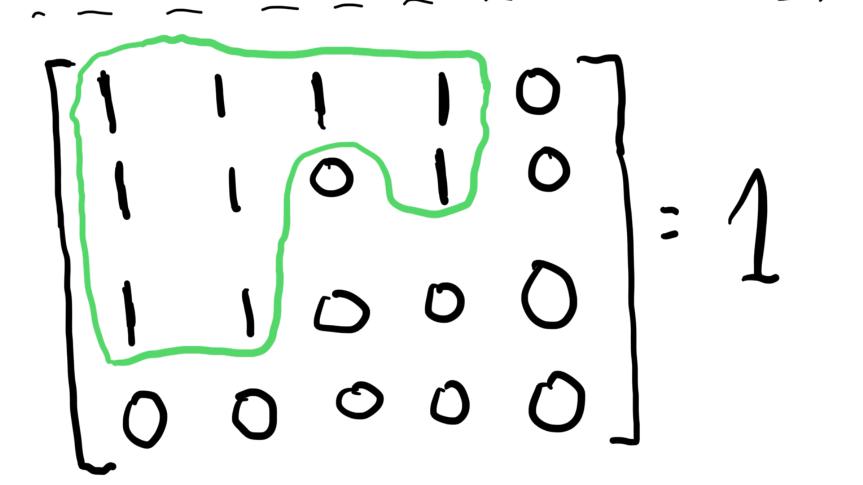
Return: number of isla-ds

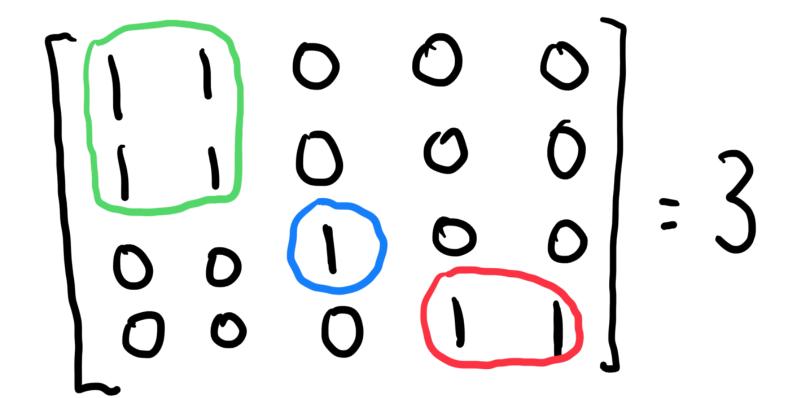
Island: surranded by water

I formed by connecting adjacent

ant 4-directionally. Assure

008 = water.





NOTE: islands not connected diagonally

Solution: DFS

- · loop for each rou, col
- · if land and not visitel:

Time: O(MXN) · answer += 1

Space: O(MXN) - dfs(rouscol)

· d4s

- base case: DOB, visited

Or water

- else: usit this point,

call des on neighbors return answer

Note: we do not need to Keep track of visited nodes it we replace then with water after visiting