想法: 用dfs去把周圍同個島的標為# 就不會重複計算 並且全部島嶼周圍0之後就停止

def numIslands(self, grid):

if not grid:

return 0

count = 0

for i in range(len(grid)):

for j in range(len(grid[0])):

if grid[i][j] == '1':

self.dfs(grid, i, j)

count += 1

return count

def dfs(self, grid, i, j):

if i<0 or j<0 or i>=len(grid) or j>=len(grid[0]) or grid[i][j] != '1':

return

grid[i][j] = '#'

self.dfs(grid, i+1, j)

self.dfs(grid, i-1, j)

self.dfs(grid, i, j+1)

self.dfs(grid, i, j-1)