Number of Islands

class Solution:

def numIslands(self, grid: List[List[str]]) -> int:

island\_num = 0

if grid == []:

return island\_num

x\_length = len(grid)

y\_length = len(grid[0])

def resetCurIsland(grid, i, j):

if grid[i][j] == "0":

return grid

else:

grid[i][j] = "0"

if i + 1 < x\_length:

grid = resetCurIsland(grid, i+1, j)

if j + 1 < y\_length:

grid = resetCurIsland(grid, i, j+1)

if i - 1 > -1:

grid = resetCurIsland(grid, i-1, j)

if j - 1 > -1:

grid = resetCurIsland(grid, i, j-1)

return grid

for i in range(x\_length):

for j in range(y\_length):

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

island\_num += 1

grid = resetCurIsland(grid, i, j)

return island\_num