

1을 육지로, 0을 물로 가정한 2D 그리드 맵이 주어졌을때, 섬의 개수를 계산하라.

```
Input: grid = [
  ["1","1","1","1","0"],
  ["1","1","0","1","0"],
  ["1","1","0","0","0"],
  ["0","0","0","0","0"]
]
```

Output: 1

1.dfs

class Solution:

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

def findWater(i: int, j: int) -> None:

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

return

grid[i][j] = '0'

findWater(i + 1, j)

findWater(i - 1, j)

findWater(i, j + 1)

findWater(i, j - 1)

result = 0

for i in range(len(grid)):

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

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

findWater(i, j)

result += 1

return result