

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
```