Problem 959: Regions Cut By Slashes

Problem Information

Difficulty: Medium
Acceptance Rate: 77.61%
Paid Only: No
Tags: Array, Hash Table, Depth-First Search, Breadth-First Search, Union Find, Matrix

Problem Description

An `n x n` grid is composed of `1 x 1` squares where each `1 x 1` square consists of a `/`, `\`,
or blank space `' '`. These characters divide the square into contiguous regions.

Given the grid `grid` represented as a string array, return _the number of regions_.

Note that backslash characters are escaped, so a `\` is represented as `\\`.

Example 1:

Input: grid = [" /","/ "] **Output:** 2

Example 2:

Input: grid = [" /"," "] **Output:** 1

Example 3:

Input: grid = ["/\\","\\/"] **Output:** 5 **Explanation:** Recall that because \ characters are
escaped, "\\/" refers to \/, and "/\\" refers to /\.

Constraints:

* `n == grid.length == grid[i].length` * `1 <= n <= 30` * `grid[i][j]` is either `/`, `\`, or ` `.

Code Snippets

C++:

```cpp
class Solution {
public:
int regionsBySlashes(vector<string>& grid) {


}
};
```

Java:

```java
class Solution {
public int regionsBySlashes(String[] grid) {


}
}
```

Python3:

```python
class Solution:
def regionsBySlashes(self, grid: List[str]) -> int:
```