Regions Cut by Slashes

Try to solve the Regions Cut By Slashes problem.

We'll cover the following

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- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

Statement

An $n \times n$ grid is composed of n, 1×1 squares, where each 1×1 square consists of a "/", "\", or a blank space. These characters divide the square into adjacent regions.

Given the grid represented as a string array, return the number of adjacent regions.

Note:

- 1. Backslash characters are escaped, so "\" is represented as "\\".
- 2. A 1×1 square in the grid will be referred to as a box.

Constraints:

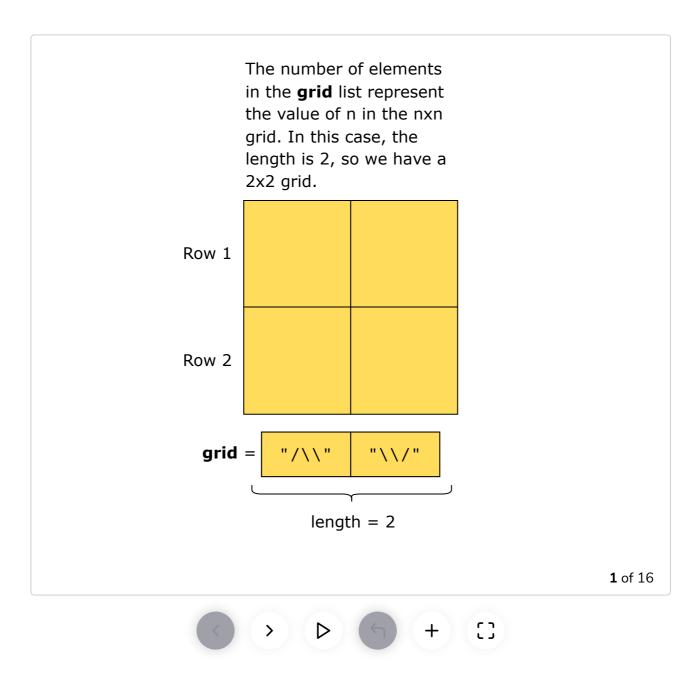


• The grid consists of only the "/", "\", or " " characters.



• $1 \le grid.length \le 30$

The following illustration shows how the grid can be visualized:



Examples

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Sample example 1

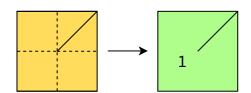
Input



Output



Explanation



1 of 3

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Sample example 2

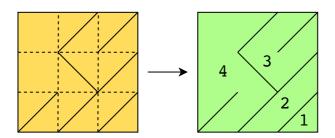
Input



Output



Explanation

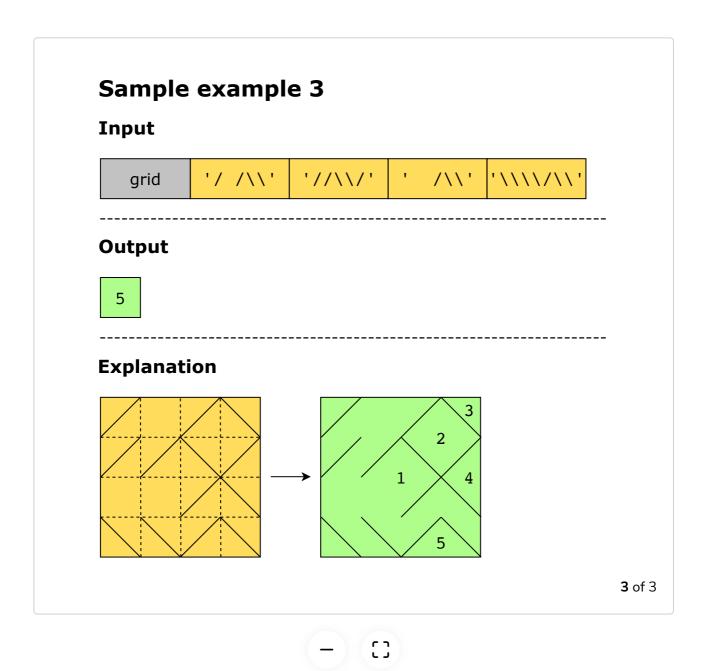


2 of 3

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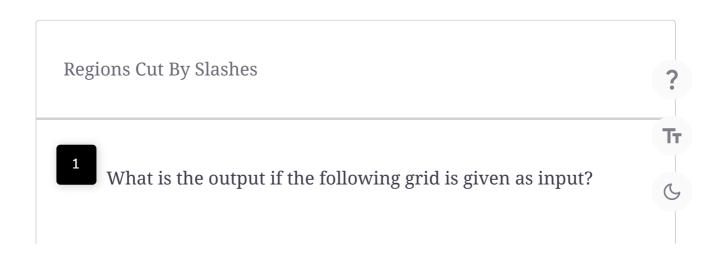
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Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:



grid = ["\\/", "/\\"]

A) 2

B) 3

C) 4

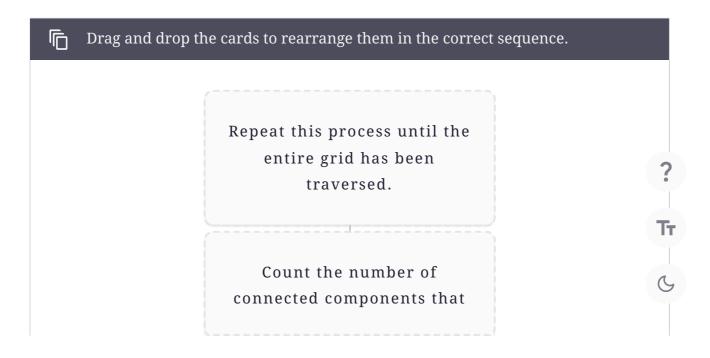
D) 5

Submit Answer

Question 1 of 3

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.



represent the regions in the grid.

Traverse each box and combine the regions in the box based on the input character.

Connect the current box with its top, bottom, left, and right neighboring boxes.

Divide each box in the $n \times n$ grid into four regions: north, south, west, and east.

Reset

Show Solution

Submit

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