E - Plateaus at Bididibus

Context

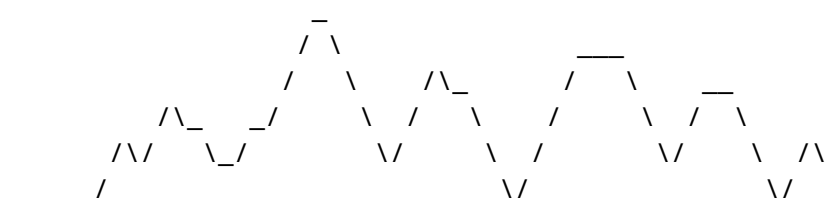
Welcome back to Bididibus!, the beautiful 2D universe made of ASCII characters.

Due to the risks of global rain, the architects of Bididibus have found that the safest places to live are the plateaus (in Spanish, *las mesetas*). So you have to write a program to count the number of plateaus in Bididibus.

The Problem

Bididibus consists of blocks of uniform width and height. Bididibusian orography is described by a series of symbols, from left to right, indicating that the land rises one unit (represented by "/"), descends one unit (represented by "\"), or it is flat (represented by "_").

For example, we can have a 2D universe like this:



This map can be simplified by removing blank spaces and writing the blocks from left to right. For example, the simplified representation of the previous universe would be:

```
//\///\_\_/_///_\\\\\\\/\_\\\\\\/___\\\\/__\\\\\/\
```

Your task is to count the number of plateaus in the map. A valid plateau should have: 3 or more consecutive rising units; 1 or more flat units; and 3 or more consecutive descending units. For example, in the universe represented above, there are 2 valid plateaus.

The Input

The first line of the input contains an integer indicating the number of test cases.

For each test case, there is a line which can contain three possible symbols: "/", "\", "_". There will be at most 10000 symbols in each line.

The Output

For each test case, the output should contain a single integer indicating the number of valid plateaus of the corresponding case.

Sample Input

```
5
//\///\_\_/_///_\\\\\\\/\_\\\\\\/___\\\\/__\\\\\/\
////\\\\\\\\\
////____\\\\\\\\
```

```
\\\_///
///_\\\\\\\\\_\\\\\\\\\\///_\\
```

Sample Output

```
2
0
1
0
1
```