

944. Delete Columns to Make Sorted

Solved

Easy

Topics

Companies

You are given an array of n strings `strs`, all of the same length.

The strings can be arranged such that there is one on each line, making a grid.

- For example, `strs = ["abc", "bce", "cae"]` can be arranged as follows:

```
abc
bce
cae
```

You want to **delete** the columns that are **not sorted lexicographically**. In the above example (**0-indexed**), columns 0 (`'a'`, `'b'`, `'c'`) and 2 (`'c'`, `'e'`, `'e'`) are sorted, while column 1 (`'b'`, `'c'`, `'a'`) is not, so you would delete column 1.

Return the number of columns that you will delete.

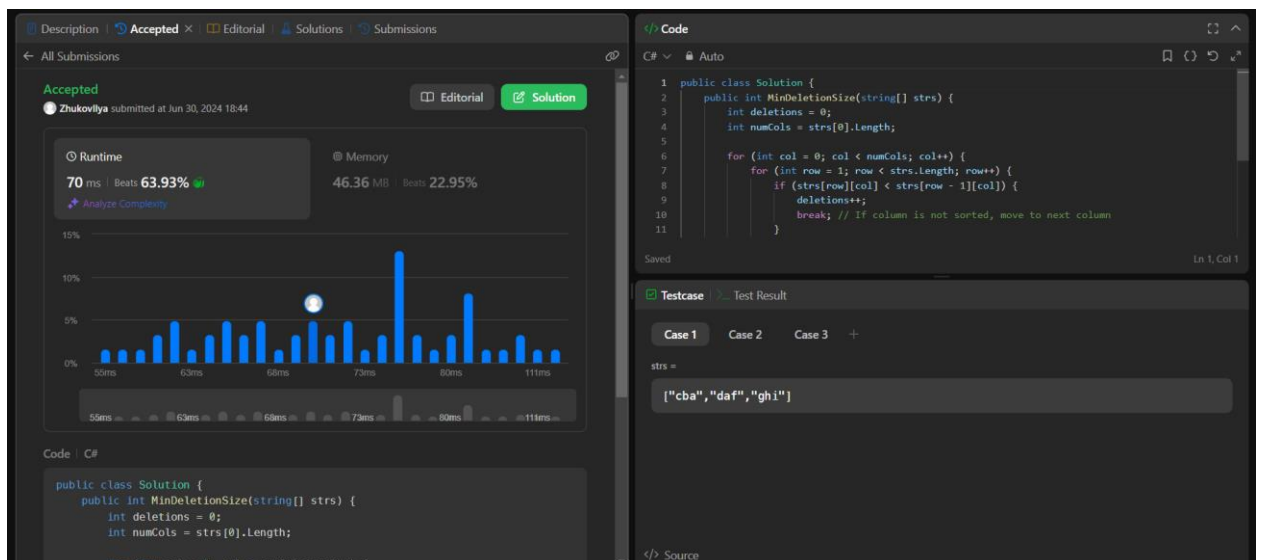
Example 1:

Input: `strs = ["cba","daf","ghi"]`

Output: 1

Explanation: The grid looks as follows:

```
cba
daf
ghi
```



Код:

```
public class Solution
{
    public int MinDeletionSize(string[] strs)
    {
        int deletions = 0;
        int numCols = strs[0].Length;
```

```
for (int col = 0; col < numCols; col++)
{
    for (int row = 1; row < strs.Length; row++)
    {
        if (strs[row][col] < strs[row - 1][col])
        {
            deletions++;
            break; // If column is not sorted, move to next column
        }
    }
}
return deletions;
}
```