806. Number of Lines To Write String

Solved ✓

`Easy` ◇ Topics 🔒 Companies

You are given a string `s` of lowercase English letters and an array `widths` denoting **how many pixels wide** each lowercase English letter is. Specifically, `widths[0]` is the width of `'a'`, `widths[1]` is the width of `'b'`, and so on.
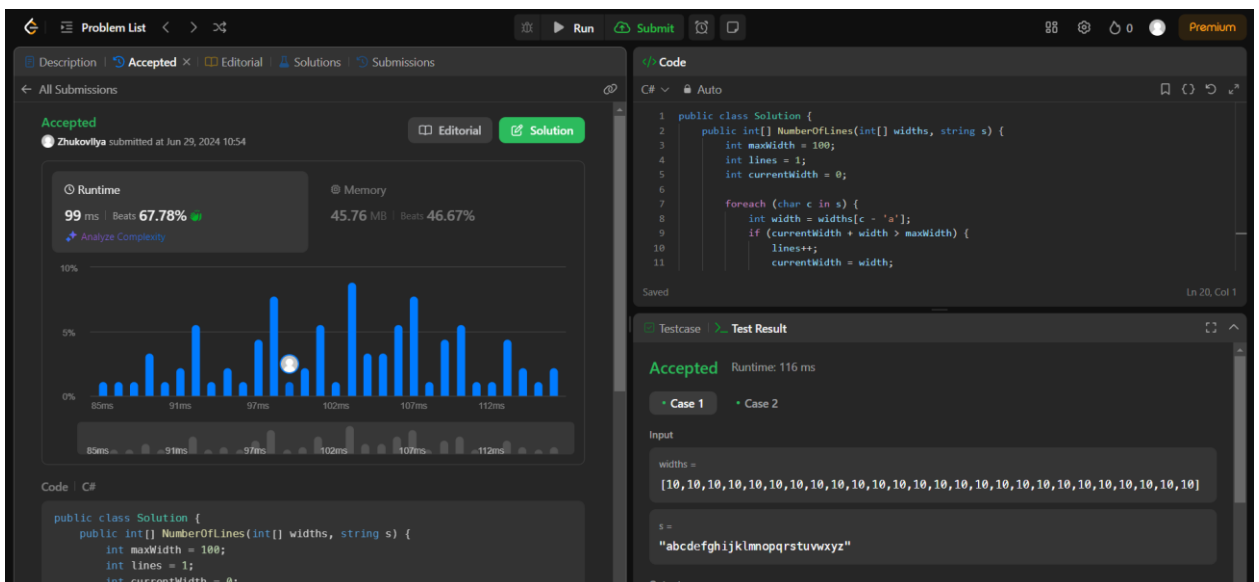
You are trying to write `s` across several lines, where **each line is no longer than** `100` **pixels**. Starting at the beginning of `s`, write as many letters on the first line such that the total width does not exceed `100` pixels. Then, from where you stopped in `s`, continue writing as many letters as you can on the second line. Continue this process until you have written all of `s`.

Return *an array* `result` *of length 2 where:*

- `result[0]` *is the total number of lines.*

- `result[1]` *is the width of the last line in pixels.*

Example 1:

```
Input: widths =
[10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10,10],
s = "abcdefghijklmnopqrstuvwxyz"
Output: [3,60]
Explanation: You can write s as follows:
abcdefghij  // 100 pixels wide
klmnopqrst  // 100 pixels wide
uvwxyz      // 60 pixels wide
```


Код:

```csharp
public class Solution
{
    public int[] NumberOfLines(int[] widths, string s)
    {
        int maxWidth = 100;
        int lines = 1;
        int currentWidth = 0;
```

```csharp
        foreach (char c in s)
        {
            int width = widths[c - 'a'];
            if (currentWidth + width > maxWidth)
            {
                lines++;
                currentWidth = width;
            }
            else
            {
                currentWidth += width;
            }
        }

        return new int[] { lines, currentWidth };
    }
}
```