In one city it is allowed to write words on the buildings walls. The local janitor, however, doesn't approve of it at all. Every night he vandalizes the writings by erasing all occurrences of some letter. Since the janitor is quite lazy, he wants to do this with just one swipe of his mop.

Given a word, find the minimum width of the mop required to erase each of the letters.

**Example**

For word = "abacaba", the output should be  
theJanitor(word) = [7, 5, 1, 0, 0, ..., 0, 0] (26elements altogether).

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] string word**

A word consisting of only lowercase Latin letters.

*Guaranteed constraints:*  
5 ≤ word.length ≤ 50.

* **[output] array.integer**

An array of length 26. The first element is the minimum width of the mop to erase letter 'a', the second - letter 'b' etc.

**[C#] Syntax Tips**

// Prints help message to the console

// Returns a string

string helloWorld(string name) {

Console.Write("This prints to the console when you Run Tests");

return "Hello, " + name;

}

<https://codefights.com/challenge/AvdPWyJyixSRdGaYb/solutions>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int[] theJanitor(string word)

{

//int[] res = new int[26];

List<int> res = new List<int>();

for (char ch = 'a'; ch <= 'z'; ch++)

{

if (word.Contains(ch))

{

res.Add(word.LastIndexOf(ch) - word.IndexOf(ch) + 1);

}

else

{

res.Add(0);

}

}

return res.ToArray();

}

static void Main(string[] args)

{

Console.ReadLine();

}

}

}

int[] theJanitor(string w)

{

var r = new int[26];

for (var c = 'a'; c <= 'z'; ++c)

r[c - 97] = w.Contains(c) ? w.LastIndexOf(c) - w.IndexOf(c) + 1 : 0;

return r;

}