**Illegible String**

Attempted by: **2163**

/

Accuracy: **88%**

/

Maximum Score: **20**

/

33 Votes

Tag(s):

Easy, Implementation

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

Your friend Max has written a string **S** in your textbook. The string consists of lowercase latin letters. The problem is that Max is not good at writing at all! Especially, you never know if he wanted to write **"w" or two consecutive "v"**. Given the string **S**, return the minimum and maximum length of a word which can be represented by it. The input string represents what you initially think the word is.

**Input format:**

In the first line there is a single integer **N** denoting the length of word **S**. In the second line there is string **S** itself.

**Output format:**

Print the minimum and the maximum length of a word which can be represented by **S**. Output these numbers in one line and separate them by a single space.

**Constraints:**

N <= 106

**SAMPLE INPUT**

5

avwvb

**SAMPLE OUTPUT**

4 6

**Explanation**

The shortest word which can be represented by this string is **awwb**, while the longest is **avvvvb**

**Time Limit:**1.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

<https://www.hackerearth.com/practice/basic-programming/implementation/basics-of-implementation/practice-problems/algorithm/illegible-string/>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

int n = int.Parse(Console.ReadLine());

string s = Console.ReadLine();

//string s = "avwvb";

//string s = "wwwvvv";

int resto = 0;

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

int i = 0;

while (i < s.Length)

{

int cont = 0;

while (i < s.Length )

{

if (s[i] == 'w')

{

cont += 2;

}

else if (s[i] == 'v')

{

cont += 1;

}

else

{

resto++;

break;

}

i++;

}

if (cont > 0)

{

puntas.Add(cont);

}

i++;

}

//Console.WriteLine(resto);

int max = 0;

int min = 0;

foreach (int elem in puntas)

{

max += elem;

//Console.Write(elem + " ");

if (elem % 2 == 0)

{

min += (elem / 2);

}

else

{

min += ((elem - 1) / 2) + 1;

}

}

Console.WriteLine((min + resto) + " " + (max + resto));

Console.ReadLine();

}

}

}