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Two Characters



Problem

Submissions

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String t always consists of two distinct alternating characters. For example, if string t's two distinct characters are x and y, then t could be xyxyx or yxyxy but not xxyy or xyyx.

You can convert some string s to string t by deleting characters from s. When you delete a character from s, you must delete all occurrences of it in s. For example, if s = abaacdabd and you delete the character a, then the string becomes bcdbd.

Given s, convert it to the longest possible string t. Then print the length of string t on a new line; if no string t can be formed from s, print 0 instead.

The first line contains a single integer denoting the length of \boldsymbol{s} .

The second line contains string s.

Constraints

- $1 \le |s| \le 1000$
- **s** only contains lowercase English alphabetic letters (i.e., a to z).

Output Format

Print a single integer denoting the maximum length of t for the given s; if it is not possible to form string t, print 0 instead.

Sample Input

10 heaheefeah

Sample Output

5

Explanation

The characters present in s are a, b, e, and f. This means that t must consist of two of those characters.

If we delete e and f, the resulting string is babab. This is a valid t as there are only two distinct characters (a and b), and they are alternating within the string.

If we delete a and f, the resulting string is bebeeeb. This is not a valid string t because there are three consecutive e 's present.

If we delete only e, the resulting string is babfab. This is not a valid string t because it contains three distinct characters.

Thus, we print the length of babab, which is 5, as our answer.

Submissions: 3106

Max Score: 15 Difficulty: Easy

Rate This Challenge:

More

```
Current Buffer (saved locally, editable) \ \mathscr{V} \ \mathfrak{O}
                                                                              C#
    using System;
   using System.Collections.Generic;
 2
 3
    using System.IO;
 4
    using System.Ling;
 5
    class Solution {
 6
        static void Main(String[] args) {
7
8
            int len = Convert.ToInt32(Console.ReadLine());
 q
                string s = Console.ReadLine();
10
11
                //int len = Convert.ToInt32(Console.ReadLine());
                //string s = Console.ReadLine();
12
13
14
                //string s = "abcabcabcab";
                //string s = "abaaabcccab";
15
               // string s = "beabeefeab";//babab -> 5
16
17
                //string s =
     ggzczxoxwqeihjsswxwxkuxqwcyeuxrppajcyrzahehomrlqzfesagmietjqtwsrioocnjqgggpzzkmxxqlujnqormwffsmhoatqb'
    ezymyhxwjtayyilozozzwbhhkewgimejokyvsyobcfprzjdgnhwitwsdssjohhvkvgwpxcnanqufqbskubxxiajpclpraimeozhvpw
    agabvhjndinvuhfzqlcvbfnkosqdsdzznsibukhlltcgaezcvlsrkbexelggocseryhqyntrolpskbgojetdaidcbcbiwzsemactmu
    mjemlqkbqyqxbgjaqynnworreqbyqyawpqyuorkoqdlvovyqkvyqxffhbfcjabcqribrikvraivghmdssjqywbtkuzhoeltouoztkd
    jgupiwyowglrtttgcjxnnmvkihxckbayxwcjiyyrymomqclchpiorftyuuuccymzbzobltxojsdzdrtvqwcvclsfbkvxsdcncgzpjw
    jwvgyxzptjjscmujoslgx";
                18
19
20
                //string s =
    'nvqredbicypfcjjlolkpeyhqydrfmxaqzhrviwwwqxogqtflzvtsouerbeiotzhyobsecdrscvzfmndvitkotptnphcodrcwpqwtl
    eemoavgtswzhcfkwurfiottvqperjjuoonawtvavtaftytjritdvhmwnzdjklqsuxfpdkrkaseaaqejeukckpwmnqsbcpfosobpmrp
    uphavimqcdbsituzsfuvnnljdditlgcjfbputtztyhqekqqmuedrkzvtjtoypfeojzieasapvphsnyhuybgwlfwjvmemullymsdqcb
    sxmxlusatbefpddktxrmyabhbbhaghghxugzhjtllvugbemwabbgxodinikujcxgatrozdowykbvkuggtmzzgdrsfeoimizypzjeca
    dsfkgcwroonzcfwksobusoopcflwmledyrwfrcmwklqtohbuncujlzbuumfigweoitttnafdwrwewggyloztuoaobcmixhokmucjrl
    vkjculzffenchjutphqiuqkfxxnnelsoueipwjxxhezndpfaejxtrvdilupzcwwdutnizzkmzdrsqiezwzlredarocnasvxfcjtzei
    whvxocstizmxvqlijgmvvwinegscvccsgkdxjtletpqlqpjtvumvzgqadtrciirabreewrfzvbhcqiswnfhjfbathkqtyxwgtuubrx
    gqxwraoeckljlfwjodjkzucmkabktaxzhdws";
21
                //string s :
    muqqzbcjmyknwlmlcfqjujabwtekovkwsfjrwmswqfurtpahkdyqdttizqbkrsmfpxchbjrbvcunogcvragjxivasdykamtkinxpg"
    asmwz";
22
23
                /* 0 */
24
                //string s =
    nvqredbicypfcjjlolkpeyhgydrfmxaqzhrviwwwgxogqtflzvtsouerbeiotzhyobsecdrscvzfmndvitkotptnphcodrcwpqwtl'
    eemoavgtswzhcfkwurfiottvgperjjuoonawtvavtaftytjritdvhmwnzdjklqsuxfpdkrkaseaagejeukckpwmngsbcpfosobpmrp
    uphavimqcdbsituzsfuvnnljdditlgcjfbputtztyhqekqqmuedrkzvtjtoypfeojzieasapvphsnyhuybgwlfwjvmemullymsdqcb
    sxmxlusatbefpddktxrmyabhbbhaghghxuqzhjtlllvugbemwabbqxodinikujcxgatrozdowykbvkugqtmzzgdrsfeoimizypzjeca
    dsfkgcwroonzcfwksobusoopcflwmledyrwfrcmwklgtohbuncujlzbuumfigweoitttnafdwrwewggyloztuoaobcmixhokmucjrl
    vkjculzffenchjutphqiuqkfxxnnelsoueipwjxxhezndpfaejxtrvdilupzcwwdutnizzkmzdrsqiezwzlredarocnasvxfcjtzei
    whvxocstizmxvqlijgmvvwinegscvccsgkdxjtletpqlqpjtvumvzgqadtrciirabreewrfzvbhcqiswnfhjfbathkqtyxwgtuubrx
    gqxwraoeckljlfwjodjkzucmkabktaxzhdws";
25
                 //string s =
    czoczkotespkfjnkbgpfnmtgqhorrzdppcebyybhlcsplqcqogqaszjgorlsrppinhgpaweydclepyftywafupqsjrbkqakpygoly"
    yfksvqetrfzrcmatlicxtcxulwgvlnslazpfpoqrgssfcrfvwbtxaagjfahcgxbjlltfpprpcjyivxu";
26
                /* 6 */ //string s =
27
    czoczkotespkfjnkbgpfnmtgqhorrzdppcebyybhlcsplqcqogqaszjgorlsrppinhgpaweydclepyftywafupqsjrbkqakpygoly"
    yfksvqetrfzrcmatlicxtcxulwgvlnslazpfpoqrgssfcrfvwbtxaagjfahcgxbjlltfpprpcjyivxu";
28
29
                if (s.Length == 1)
30
31
                    Console.WriteLine(0);
32
                else
33
34
35
                    string dist = new String(s.Distinct().ToArray());
                  // Console.WriteLine(dist);
36
37
                    HashSet<string> pares = new HashSet<string>();
38
39
                    int max_len = 0;
40
                    for (int i = 0; i < dist.Length; i++)</pre>
41
42
43
                        for (int j = i+1; j < dist.Length; j++)
44
                            char x = dist[i];
45
46
                            char y = dist[j];
47
48
                            string p1 = x.ToString() + y.ToString();
                            string p2 = y.ToString() + x.ToString();
49
50
                           // if ( (x!= y) \& pares.Contains(p1) \& pares.Contains(p2))
51
```

```
27/11/2016
```

```
53
                                  pares.Add(p1);
54
                                  pares.Add(p2);
55
                                  string concat = "";
56
                                  for (int k = 0; k < s.Length; k++)
57
58
                                      if (s[k] == x \mid\mid s[k] == y)
59
60
61
                                           concat += s[k];
62
63
                                           if (concat.Length > 1 && concat[concat.Length - 1] ==
    concat[concat.Length - 2])
64
65
                                               concat = "";
66
                                               break;
67
68
69
70
                                  //if (concat.Length == 6)
71
72
                                         Console.WriteLine(x + " " + y + " "+ concat);
                                                                                                                    73
                                  //}
74
75
                                  // Console.WriteLine(concat);
76
                                  max_len = Math.Max(max_len, concat.Length);
77
78
79
80
                     }
81
82
                     Console.WriteLine(max_len);
83
84
85
        }
86
87
                                                                                                       Line: 36 Col: 17
```

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Test against custom input

Run Code

Submit Code

Run

Testcase 0 🗸

Congratulations, you passed the sample test case.

Click the Submit Code button to run you code against all the test cases.

Compile Message

Compile Time solution.cs(8,13): warning CS0219: The variable `len' is assigned but its value is never used Compilation succeeded - 1 warning(s)

Input (stdin)

beabeefeab

Your Output (stdout)

5

Expected Output

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