Practice > Interview Preparation Kit > String Manipulation > Special String Again

Special String Again ☆

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A string is said to be a special string if either of two conditions is met:

- All of the characters are the same, e.g. aaa.
- All characters except the middle one are the same, e.g. aadaa.

A special substring is any substring of a string which meets one of those criteria.

Given a string, determine how many special substrings can be formed from it.

For example, given the string $s = $ mnonopoo, we have the following special substrings: {m, n, o, n, o, p, o, o, non, ono, opo, oo}.

Function Description

Complete the substrCount function in the editor below. It should return an integer representing the number of special substrings that can be formed from the given string.

substrCount has the following parameter(s):

- n: an integer, the length of string s
- s: a string

Input Format

The first line contains an integer, n, the length of s.
The second line contains the string s.

Constraints

$1 \leq n \leq 10^6$

Each character of the string is a lowercase alphabet, ascii[a-z].

Output Format

Print a single line containing the count of total special substrings.

Sample Input 0

```
5
asasd
```

Sample Output 0

```
7
```

Explanation 0

The special palindromic substrings of $s = $ **asasd** are

{a, s, a, s, d, asa, sas}

Sample Input 1

```
7
abcbaba
```

Sample Output 1

```
10
```

Explanation 1

The special palindromic substrings of $s = $ **abcbaba** are

{a, b, c, b, a, b, a, bcb, bab, aba}

Sample Input 2

```
4
aaaa
```

Sample Output 2

```
10
```

Explanation 2

The special palindromic substrings of $s = $ **aaaa** are

{a, a, a, a, aa, aa, aa, aaa, aaa, aaaa}

Objective-C

Change Theme

```objc
54              for(int j = 0; j < currentWindowString.length; j++)
55              {
56                  [currentWindowStringListChars addObject:[currentWindowString
        substringWithRange:NSMakeRange(j,1)]];
57              }
58
59              currentWindowSet = [NSSet setWithArray:currentWindowStringListChars];
60              if(currentWindowStringListChars.count % 2 != 0)
```

```
61             {
62                 //  odd number of items
63                 indexCenter = currentWindowString.length/2;
64
65                 if( (currentWindowSet.count == 2) &&
66                     ([currentWindowStringListChars[indexCenter]
   isEqualToString:currentWindowStringListChars[0]] == NO) &&
67                     [currentWindowStringListChars.firstObject
   isEqualToString:currentWindowStringListChars.lastObject]
68                     )
69                 {
70                     counterSpecialString++;
71                 }
72                 else if((currentWindowSet.count == 1) &&
   (currentWindowStringListChars.count > 1))
73                 {
74                     counterSpecialString++;
75                 }
76         }
```

Line: 75 Col: 18

⬆ **Upload Code as File**

☐ **Test against custom input**

Run Code   **Submit Code**

Started

☼ **Test case 0**	☼ **Test case 3**	☼ **Test case 6**	☼	☼
☼ **Test case 1**	☼ **Test case 4**	☼ **Test case 7**	☼	☼
☼ **Test case 2**	☼ **Test case 5**	☼ **Test case 8**	☼	☼