

Problem

Given a string, remove characters until the string is made up of any two alternating characters.

When you choose a character to remove, all instances of that character must be removed.

Determine the longest string possible that contains just two alternating letters.

Example

s = 'abaacdabd'

Delete a, to leave bcdbd. Now, remove the character c to leave the valid string bdbd with a length of 4. Removing either b or d at any point would not result in a valid string. Return **4**.

Submissions

Given a string *s*, convert it to the longest possible string *t* made up only of alternating characters. Return the length of string *t*. If no string *t* can be formed, return **0**.

Function Description

Complete the alternate function in the editor below.

alternate has the following parameter(s):

- string s: a string

Returns.

- int: the length of the longest valid string, or **0** if there are none

Leaderboard

Input Format

The first line contains a single integer that denotes the length of *s*.

The second line contains string *s*.

Discussions

Constraints

- $1 \leq \text{length of } s \leq 1000$
- $s[i] \in \text{ascii[a-z]}$

Sample Input

STDIN	Function
-----	-----
10	length of s = 10
beabeefeab	s = 'beabeefeab'

Editorial

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 and we must delete two others. Our choices for characters to leave are [a,b], [a,e], [a,f], [b,e], [b,f] and [e,f].

Change Theme Language Python 3

```
8
9  #
10 # Complete the 'alternate' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts STRING s as parameter.
14 #
15
16 def alternate(s):
17     x=set(s)
18     m=0
19     l=list(map(set,combinations(x,2)))
20     for i in l:
21         y=x-i
22         z=s
23         for j in y:
24             z=z.replace(j,"")
25             r="".join(i))*(len(z)//2)
26             if r+r[0]==z or r==z or r==z[::-1] or r[1]+r==z:
27                 m=max(m,len(z))
28     return m
29
30
31
32
```

Line: 15 Col: 1

Upload Code as File

Test against custom input

Run Code

Submit Code

Congratulations

You solved this challenge. Would you like to challenge your friends?



Test case 0

Test case 1

Test case 2

Test case 3

Compiler Message

Success

Input (stdin)

110

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