# **Two Characters**



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 d.

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 t.

## **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  $\mathbf{0}$  if there are none

#### **Input Format**

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

### **Constraints**

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

## Sample Input

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

## Sample Output

```
5
```

#### **Explanation**

The characters present in s are a, b, e, and f. This means that f must consist of f two of those characters and we must delete f two others. Our choices for characters to leave are f and f are f and f and f and f and f are f and f are f are f and f and f are f are f and f are f and f are f are f and f are f and f are f are

If we delete e and f, the resulting string is babab. This is a valid t as there are only two distinct characters (e and e), 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 consecutive f's present. Removing them would leave consecutive f's, so this fails to produce a valid string f.

Other cases are solved similarly.

babab is the longest string we can create.