

## 4588 So Long Pal

A string is a **palindrome** if it reads the same whether read forward or backward. For example, “MaDaM” and “1234554321” are palindromes, while “APPLE”, “00110”, and “mADam” are not palindromes.

Non-palindromes, however, may also contain palindromes. For example, the **longest palindrome** in “APPLE” is “PP”, the longest palindrome in “00110” is “0110”, and the longest palindrome in “Philippines” is “ippi”.

### Input

The file consists of several test cases, each with a case number and the test case. A test case specifies a string with length 2 up to 100.

### Output

For each test case, output the **length** of the **longest palindrome** in the string. Note that **non-letters** and **non-digits** are considered in **searching** for palindromes in the string, but are eventually **not counted** in the **length** of the longest palindrome.

### Sample Input

```
Case 1: 1234554321
Case 2: Yes
Case 3: M*aD*aM
Case 4: M*aDa*M
Case 5: M*aDa*m
Case 6: 22r1**+00+*1r?
Case 7: ?0&910$$0190+
Case 8: 0&910$0$0+
Case 9: 0&910$+
Case 10: $+++ $
```

### Sample Output

```
Case 1: 10
Case 2: 1
Case 3: 1
Case 4: 5
Case 5: 3
Case 6: 6
Case 7: 6
Case 8: 3
Case 9: 1
Case 10: 0
```