Morning Problem: Palindromes

Description

A palindrome is a string that reads the same forward or backwards. Putting it another way, it equals its reversal. So ogopogo and racecar are palindromes yet banana and emma are not.

Your task is simple. Find the length of the longest **odd-length palindrome** that is a substring of a given string. We do not care about palindromes of even length today.

Input

Input consists of a single line with a single string. This string will contain only lowercase letters and will have length between 1 and 1000.

Output

Output a single integer k on a single line. This should be the length of the longest odd-length palindrome that appears as a substring of the input string.

Sample Input 1

banana

Sample Output 1

5

Explanation for Sample 1

The string anana is a palindrome with length 5, and there are no longer odd-length palindromes.

Sample Input 2

aababbbabba

Sample Output 2

7

Explanation for Sample 2

The substring babbbab is a palindrome with length 7, and there are no longer odd-length palindromes.

Sample Input 3

deed

Sample Output 3

1

Explanation for Sample 3

Though deed is a palindrome, it has even length. The only odd-length palindromes that are a substring of this string are strings of length 1, namely d or e.