

The Palindromes Problem

Your program is to read a data file (**palindromes.txt**) consisting of single lines of text and output whether that text is a palindrome or not.

A palindrome is a string that read from left to right or right to left looks the same. For instance "abcba" is identical whether we read it from left to right or from right to left.

Your program is expected to be case-sensitive.

On top of this definition we will consider the following pairs of characters to be *reversible*:

() , [] , { } , < >

This means that when reading from left to right we encounter the character '(' we should encounter instead the character ')' when reading from right to left.

For instance the string "ab(c)ba" will be considered to be a palindrome while "ab(c(ba" will not.

Here are some examples of palindromes:

aabbcbbaa

aa

a{}a

()

(a)

ver{(aga)}rev

and some examples of non-palindromes:

ab

(a(b(a

a(a a{b>c

Sample Input (**palindromes.txt**)

aabbcbbaa

(a)

Sample Output

This is not a palindrome.

This is a palindrome.