Introduction

A palindrome is a phrase that reads the same forward or reversed. You should write a program that is able to determine whether a phrase is a palindrome or not, skipping all punctuation symbols and not distinguishing between upper and lower case.

Input

The input will be a sequence of sentences, ending with the sentence "Palindrome!".

As I pee, sir, I see Pisa I am writing a palindrome program Mr owl ate my metal worm Palindrome!

Output

The program must determine if the phrases are palindromes (be careful with capital letters, spaces, commas and dots!).

"As I pee, sir, I see Pisa" is a palindrome
"I am writing a palindrome program" is not a palindrome
"Mr owl ate my metal worm" is a palindrome