Program-06

Write a program to accept a sentence which may be terminated by either . , ? or ! only. The words are to be separated by a single blank space and are in uppercase.  
  
Perform the following tasks:  
  
(a) Check for the validity of the accepted sentence.  
  
(b) Convert the non-palindrome words of the sentence into palindrome words by concatenating the word by its reverse (excluding the last character).  
  
Example:  
  
The reverse of the word HELP would be LEH (omitting the last alphabet) and by concatenating both, the new palindrome word is HELPLEH. Thus, the word HELP becomes HELPLEH.  
  
Note: The words which end with repeated alphabets, for example ABB would become ABBA and not ABBBA and XAZZZ becomes XAZZZAX.  
  
[Palindrome word: Spells same from either side. Example: DAD, MADAM etc.]  
  
(c) Display the original sentence along with the converted sentence.  
  
Test your program for the following data and some random data:  
  
Example 1  
  
INPUT:  
THE BIRD IS FLYING.  
  
OUTPUT:  
THE BIRD IS FLYING.  
THEHT BIRDRIB ISI FLYINGNIYLF  
  
Example 2  
  
INPUT:  
IS THE WATER LEVEL RISING?  
  
OUTPUT:  
IS THE WATER LEVEL RISING?  
ISI THEHT WATERETAW LEVEL RISINGNISIR  
  
Example 3  
  
INPUT:  
THIS MOBILE APP LOOKS FINE.  
  
OUTPUT:  
THIS MOBILE APP LOOKS FINE.  
THISIHT MOBILELIBOM APPA LOOKSKOOL FINENIF  
  
Example 3  
  
INPUT:  
YOU MUST BE CRAZY#  
  
OUTPUT:  
INVALID INPUT