**Week7 Assignment**

{-

In this assignment you have to submit a standalone Haskell program that can

be compiled using the ghc compiler.

The input to the program will be multiple lines. Each input line is guaranteed

to be a single word, with no beginning or trailing spaces. On reading a line,

your program should print "Y" if the word is a palindrome (after converting

every letter to lowercase), and "N" if not.

A palindrome is a string that is the same as its reverse.

Here is a sample run:

Input

-----

abba

Level

Hi

Malayalam

Output

------

Y

Y

N

Y

-}

import Data.Char

checkPali :: String -> IO ()

checkPali "" = putStrLn "Y"

checkPali s = checkBool [toLower (s !! i) == toLower (s !! (length s - 1 - i)) | i <- [0 .. (length s `div` 2 - 1)]]

where

checkBool s =

if and s

then putStrLn "Y"

else putStrLn "N"

main = do

inp <- getLine

checkPali inp

main