CSCE 145: Lab 17 Palindrome Detection

Objectives

In this week's lab you will learn about String Processing in Java.

Instructions

A palindrome is a string that reads the same forwards and backwards, such as "warts n straw" or "radar"

Write a program that will accept a string of characters terminated by a carriage return and will determine whether or not the string is a palindrome. In your program, define a <u>static</u> method called *palindrome* that begins as follows:

Hint: Use the methods charAt(int index) and toLowerCase() or toUpperCase() of the String class.

Note:

• Consider uppercase and lowercase versions of the same letter to be equal, so the following will be considered a palindrome by your program:

Able was Lere I saw Elba

Example Output

```
Radar

BINGO!! The entered input is a palindrome!

Input the string that needs to be checked if it is a palindrome (press n to terminate the program):

AaBbAa

BINGO!! The entered input is a palindrome!

Input the string that needs to be checked if it is a palindrome (press n to terminate the program):

ah ha

BINGO!! The entered input is a palindrome!

Input the string that needs to be checked if it is a palindrome (press n to terminate the program):
```

Input the string that needs to be checked if it is a palindrome

ah ha!

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The entered input is NOT a palindrome.

Input the string that needs to be checked if it is a palindrome (press n to terminate the program):

ah h a

The entered input is NOT a palindrome.

Input the string that needs to be checked if it is a palindrome (press n to terminate the program):

n

Process Palindrome finished

Files needed for this lab to run: Palindrome.java

Upload your files to the <u>CSE Dropbox</u> when you are done.