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package firstsubroutines**;**

**import** java**.**io**.\*;** //Import TextIO

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\* **@author** Reed

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public class Firstsubroutines **{**

/\*\*

\* **@param** args the command line arguments

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public static void main**(**String**[]** args**)** **{**

// TODO code application logic here

String inputWord**;** // word gathered from the use

String inputWordStrip**;** // delcare string that will be the stripped input word

String inputWordStripRev**;**

System**.**out**.**print**(**"enter a word and I will determine if it is palindromic: "**);**

inputWord **=** TextIO**.**getln**();**

System**.**out**.**println**();** // print a new line

// call the subroutines produce the stripped word and then reverse that word

inputWordStrip **=** strstrip**(**inputWord**);**

inputWordStripRev **=** streverse**(**inputWordStrip**);**

// print out the two results to show the user

System**.**out**.**println**(**"The stripped word is: " **+** inputWordStrip**);**

System**.**out**.**println**(**"The reverse of that word is: " **+** inputWordStripRev**);**

// test if the word is a palindrome

// print a statement accordingly

**if** **(**inputWordStrip**.**equals**(**inputWordStripRev**))** **{**

System**.**out**.**println**(**"This is palindromic"**);**

**}** **else** **{**

System**.**out**.**println**(**"This is NOT palindromic"**);**

**}**

**}**

public static String strstrip**(**String strip**)** **{**

int i**;** // declare var for counting through each position of strip

String alphaString**=**""**;** // declare var for removed non-letters

String alphaStringLower**;** // declare var for lowercase

**for** **(**i**=**0**;** i**<**strip**.**length**();** i**++)** **{**

**if** **(**Character**.**isLetter**(**strip**.**charAt**(**i**)))** **{**

alphaString **=** alphaString**+**strip**.**charAt**(**i**);**

**}**

**}**

alphaStringLower **=** alphaString**.**toLowerCase**();** // converts to lowercase

**return** alphaStringLower**;**

**}**

public static String streverse**(**String str**)** **{**

// reverses the ordering of str

int i**;**

String reverse **=** ""**;**

**for** **(**i**=**str**.**length**()-**1**;** i**>=**0**;** i**--)** **{**

reverse **=** reverse **+** str**.**charAt**(**i**);**

**}**

**return** reverse**;**

**}**

**}**