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\* Reverse Letters

\* This program takes a word in from the user and then tests if the word if the second word entered is the reverse of the first word or not

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**import** java.util.Scanner;

**public** **class** ReverseLetters {

**public** **static** **int** *counter*=0;

**public** **static** String *word*;

**public** **static** String *word2*;

**public** **static** String *play*;

**public** **static** Scanner *scn*=**new** Scanner(System.***in***);

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\* This is the main method. It takes in a word from the user and tests if it is a palindrome or not

\* **@param** args

\*/

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

{

// initiate the scanner

System.***out***.println("Please enter a word.");

// take in the word

*word*=*scn*.next();

// take in the second word

System.***out***.println("Please enter the second word.");

*word2*=*scn*.next();

// sends in the word to the method reverseWord

String wordBackwards=*reverseWord*(*word2*);

// compares the first word and the reverse form of the second word to see if they are the same

**for** (**int** i=0;i<*word*.length();i++)

{

**if** (*word*.charAt(i) ==wordBackwards.charAt(i))

{

System.***out***.println("The words are the reverse of each other");

**break**;

}

//if (i==word.length()-1)

**else** {

System.***out***.println("The words are not the reverse of each other");

**break**;

}

}

//again();

}

/\*\*

\* This method takes a word and reverses the order of the letters

\* **@param** x

\* **@return** reverse

\*/

**public** **static** String reverseWord(String x){

// take the letters one by one and reverses them

// take in the second word and reverses it

String reverse = **new** StringBuffer(x).reverse().toString();

**return** reverse;

}

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public static void again()

{

System.out.println("Would you like to play again? Yes or No");

play= scanner.nextLine();

if (play.equalsIgnoreCase("yes"))

{

main(null);

}

else if (play.equalsIgnoreCase("no"))

{

System.exit(0);

}

else

{

System.out.println("Please type in a valid input");

do

{

play= scanner.nextLine();

}while(!play.equalsIgnoreCase("yes") || !play.equalsIgnoreCase("no"));

}

}

\*/

}