Worksheet 29

Strings Comparisons

The proper way to compare two strings:

import java.util.Scanner;
import java.io.File;

```
String  forwards,  backwards;
 forwards  = "racecar";
 backwards = "racecar";

 if (  forwards.equals(backwards)  )
 {
     System.out.println(  "these two words are palindromes"  );
 }


// if (forwards == backwards)    is WRONG!

//Ref:  https://www.w3schools.com/java/ref_string_equals.asp
```

Create a program which displays all of the palindromes found in the dictionary, words.txt.

Recommend: It would be wise to use a small.txt dictionary at first until you get your program working.

A **palindrome** is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as madam or racecar.

HINT: This line maybe helpful: backwards = backwards + item.charAt(i) ;

Sample Session (below are just a few palindromes; your task is to find them all)

```
abba
anna
boob
deed
hallah
keek
kook
marram
mm
naan
noon
otto
peep
poop
pullup
redder
sees
```