Pages 339-342

11) Study the Vocabulary Density application and answer the following questions:

1. How is the name and location of the input file provided to the program?

**Using a command line argument, employing FileReader class.**

1. What happens if the input text contains more than *CAPACITY* unique words?

**The program gets stuck in a endless loop of returning the value: false.**

1. What would be the effect of removing the ‘ (apostrophe) from the delimiters definition?

**Words like it’s or Molly’s will be counted as two separate words being delimited by the apostrophe.**

1. What is the effect of removing the “word = word.toLowerCase()” statement?

**The number of unique words would increase as duplicate values of the word will be saved in the array with different letter capitalization.**

15) What is the output of the following code sequence?

*Circle c1 = new Circle(5);*

*Circle c2 = new Circle(5);*

*Circle c3 = new Circle(15);*

*Circle c4 = null;*

*System.out.println(c1 == c1);*

*System.out.println(c1 == c2);*

*System.out.println(c1 == c3);*

*System.out.println(c1 == c4);*

*System.out.println(c1.equals(c1));*

*System.out.println(c1.equals(c2));*

*System.out.println(c1.equals(c3));*

*System.out.println(c1.equals(c4));*

*True*

*False*

*False*

*False*

*True*

*True*

*False*

*False*

27) Describe the functional difference between the following two sections of code:

The SortedArrayCollection is more efficient for searching through its data, since the data in it is more organized than the data form the ArrayCollection.