

Quiz, 10 questions

## **Congratulations! You passed!**

Next Item



Here is the code for runMarkovZero.



```
public void runMarkovZero() {
 2 2 FileResource fr = new FileResource();
3 3 String st = fr.asString();
4 4 st = st.replace('\n', '');
5 MarkovZero markov = new MarkovZero();
 6 6 markov.setTraining(st);
7 = 7 for(int k=0; k < 3; k++) {
      String text = markov.getRandomText(500);
9 9
        printOut(text);
10 10
11 11
```

Suppose the line

```
1 markov.setRandom(18);
```

is put between lines 7 and 8, as the first line in the body of the for loop. Which one of the following options best describes how this line affects the program?



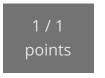
In the MarkovRunner class in the runMarkovZero method, set the random seed to 1024 and run this method on the file **confucius.txt**.



What is the first line of text output when this program runs?



In the Tester class, run the program **testGetFollowsWithFile** with the string "o" and the file confucius.txt.



What is the size of the ArrayList of characters that follow "o"?



In the Tester class, run the program **testGetFollowsWithFile** with the string "he" and the file confucius.txt.



What is the size of the ArrayList of characters that follow "he"?



After the completion of the **MarkovOne** class to generate random text by finding all the characters that follow one character, set the random seed in the runMarkovOne method in the MarkovRunner class to 365. Then run runMarkovOne on the file romeo.txt.



What is the first line generated?



points

After the completion of the **MarkovFour** class to generate random text by finding all the characters that follow four characters, set the random seed in the runMarkovFour method in the **MarkovRunner** class to 715. Then run **runMarkovFour** on the file romeo.txt.

What is the first line of text generated?



points

After the completion of the **MarkovModel** class to generate random text by finding all the characters that follow N characters, set the random seed in the **runMarkovModel** method in the MarkovRunner class to 953 and pass in N as 7. Then run runMarkovModel on the file romeo.txt.

What is the first line of text generated?



For the class **EfficientMarkovModel**, which one of the following is the best place to call the **buildMap** method?



points

In the **EfficientMarkovModel** class, comment out the print statements in the 9. **printHashMapInfo** method that prints out the map. Make sure **printHashMapInfo** is called right after the HashMap is built. Then in the **MarkovRunnerWithInterface** class call the **runModel** method on an **EfficientMarkovModel** of order 6 with seed 792 on the file **confucius.txt**.

How many keys are in the HashMap?



points

10. In the EfficientMarkovModel class, comment out the print statements in the printHashMapInfo method that prints out the map. Make sure printHashMapInfo is called right after the HashMap is built. Then in the MarkovRunnerWithInterface class call the **runModel** method on an **EfficientMarkovModel** of order 5 with seed 531 on the file **confucius.txt**.

What was the size of the largest ArrayList in the HashMap?

