✖ **Required to pass: 80% or higher**
You can retake this quiz up to 3 times every 8 hours.

Back to Week 3

Retake

✖ **1.** Here is the code for runMarkovZero.

0 / 1 points

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

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

1 / 1 points

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

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

0 / 1 points

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

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

1 / 1 points

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

✔ **5.** 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**.

1 / 1 points

What is the first line generated?

✔ **6.** 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**.

1 / 1 points

What is the first line of text generated?

✖ **7.** 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**.

0 / 1 points

What is the first line of text generated?

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

0 / 1 points

✖ **9.** 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 6 with seed 792 on the file **confucius.txt**.

0 / 1 points

How many keys are in the HashMap?

✔ **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**.

1 / 1 points

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

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