wk3-Interface and Abstract Class

Monday, December 14, 2020   12:38 AM

✓ **Congratulations! You passed!**
  TO PASS 65% or higher

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100%

Interface and Abstract Class

TOTAL POINTS 4

1. After adding in the IMarkovModel interface and the abstract class AbstractMarkovModel, you added a seed variable in the   **1 / 1 point**
   runMarkov method in the MarkovRunnerWithInterface class and passed this variable as a 4th parameter named seed.

   Which one of the following changes removes the compile error for the line "markov.setRandom(seed)" in the runMarkov
   method and so that the program runs correctly?

   ○ Make a copy of the setRandom method in MarkovOne and put it in IMarkovModel.

   ◉ Add this line in IMarkovModel:

   ```
   1  public void setRandom(int seed);
   ```

   ○ Make a copy of the setRandom method in MarkovOne and put it in AbstractMarkovModel.

   ○ Add this line in AbstractMarkovModel:

   ```
   1  public void setRandom(int seed);
   ```

   ✓ **Correct**

2. Which if the following is the best answer for how the HashMap in EfficientMarkovModel should be declared?   **1 / 1 point**

   ◉
   ```
   1  private HashMap<String, ArrayList<String>> myMap;
   ```

   ○
   ```
   1  public HashMap<String, ArrayList<String>> myMap;
   ```

   ○
   ```
   1  private HashMap<String, String> myMap;
   ```

```
1  public HashMap<String, String> myMap;
```

✓ **Correct**

3. In the EfficientMarkovModel class, comment out the print statements in the printHashMapInfo method that prints out the   **1 / 1 point** 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 615 on the file romeo.txt.

How many keys are in the HashMap?

41309

✓ **Correct**

4. In the EfficientMarkovModel class, comment out the print statements in the printHashMapInfo method that prints out the   **1 / 1 point** 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 615 on the file romeo.txt.

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

6724

✓ **Correct**