



Required to pass: 80% or higher

You can retake this quiz up to 3 times every 8 hours.

Back to Week 2

Retake



0 / 1 points

1. Consider the first version of GladLibs we saw in this lesson, which stores label substitutions in ArrayLists. Assume an ArrayList named **wordsUsed** will keep track of words used as replacements so no replacement word will be used more than once. The code below was used as part of a program by a learner in the method **processWord**. The learner's program runs but still results in duplicate words sometimes.

```
1 String sub = getSubstitute(w.substring(first+1,last));
2 while (true) {
3     if (wordsUsed.contains(sub)) {
4         sub = getSubstitute(w.substring(first+1,last));
5         break;
6     }
7     else {
8         wordsUsed.add(sub);
9     }
10 }
```

Which one of the following best explains why this code still returns duplicates sometimes?



1 / 1 points

2. Consider the first version of GladLibs we saw in this lesson, which you modified so there would not be duplicate words chosen for the story. Assume an instance variable is used to keep track of the total number of word tags that are replaced.

Which one of the following methods is most likely where that variable is updated?



1 / 1 points

3. Consider the class **WordFrequencies**, which you wrote in an assignment, that can determine facts about words in a file.

How many unique words are in the file **errors.txt**?

(You should lowercase all words and include the punctuation as part of a word. Thus, "end." is different than "end", but "All" is the same as "all".)



1 / 1 points

4. Consider the class **WordFrequencies**, which you wrote in an assignment, that can determine facts about words in a file.

Which word occurs the most often in the file **errors.txt**?

(You should lowercase all words and include the punctuation as part of a word. Thus, "end." is different than "end", but "All" is the same as "all".)



1 / 1 points

5. Consider the class **WordFrequencies**, which you wrote in an assignment, that can determine facts about words in a file.

Find the word that occurs the most often in the file **errors.txt**.

(You should lowercase all words and include the punctuation as part of a word. Thus, "end." is different than "end", but "All" is the same as "all".)

How many times does the most common word occur?



1 / 1 points

6. Consider the class **CharactersInPlay**, which you wrote in an assignment, that determines who the characters were in one of Shakespeare's plays and also how many lines they had.

What is the name of the character with the third most speaking parts in the file **errors.txt**?



1 / 1 points

7. Consider the class **CharactersInPlay**, which you wrote in an assignment, that determines who the characters were in one of Shakespeare's plays and also how many lines they had.

Find the name of the character with the third most speaking parts in the file **errors.txt**. How many speaking parts does this person have?



1 / 1 points

8. Consider the class **CharactersInPlay**, which you wrote in an assignment, that determines who the characters were in one of Shakespeare's plays and also how many lines they had.

How many characters in the file **errors.txt** have at least 10 speaking parts, but no more than 15 speaking parts?



1 / 1 points

9. Consider the class you wrote to find out how many times each codon occurs in a strand of DNA based on reading frames. The file **dnaMystery2** represents a long strand of DNA.

How many unique codons are there if you use a reading frame that starts at position 1?



1 / 1 points

10. Consider the class you wrote to find out how many times each codon occurs in a strand of DNA based on reading frames. The file **dnaMystery2** represents a long strand of DNA.

What is the number of occurrences of the codon that occurs the most often using a reading frame that starts at position 2?



1 / 1 points

11. Consider the class you wrote to find out how many times each codon occurs in a strand of DNA based on reading frames. The file **dnaMystery2** represents a long strand of DNA.

Using a reading frame that starts at position 0, which of the following codons occur 7 times? (Select all that are correct.)



1 / 1 points

12. Consider the class **WordsInFiles**, which you wrote in an assignment, that determines which words occur in several files, and for each word, which files they occur in.

Consider the seven files: **caesar.txt**, **confucius.txt**, **errors.txt**, **hamlet.txt**, **likeit.txt**, **macbeth.txt**, and **romeo.txt**.

How many words are there that each occur in all seven files?



1 / 1 points

13. Consider the class **WordsInFiles**, which you wrote in an assignment, that determines which words occur in several files, and for each word, which files they occur in.

Consider the seven files: **caesar.txt**, **confucius.txt**, **errors.txt**, **hamlet.txt**, **likeit.txt**, **macbeth.txt** and **romeo.txt**.

How many words are there that each occur in four of the seven files?



0 / 1 points

14. Consider the class **WordsInFiles**, which you wrote in an assignment, that determines which words occur in several files, and for each word, which files they occur in.

Consider the seven files: **caesar.txt**, **confucius.txt**, **errors.txt**, **hamlet.txt**, **likeit.txt**, **macbeth.txt** and **romeo.txt**.

In which file does the word "laid" NOT appear?



1 / 1 points

15. Consider the class **WordsInFiles**, which you wrote in an assignment, that determines which words occur in several files, and for each word, which files they occur in.

Consider the seven files: **caesar.txt**, **confucius.txt**, **errors.txt**, **hamlet.txt**, **likeit.txt**, **macbeth.txt** and **romeo.txt**.

In which of the following files does the word "tree" appear? (Choose all that apply.)

(Consider only the exact lowercase string "tree". "TREE" or "tree." would be different words.)



0 / 1 points

16. Consider the map version of GladLibs where a map is created that maps a category to a list of words in that category.

In which method are the individual ArrayLists of words for categories created?



1 / 1 points

17. Consider the map version of GladLibs where a map is created that maps a category to a list of words in that category. In which method are these individual ArrayLists of words placed into the HashMap?



0 / 1 points

18. Consider the map version of GladLibs and consider the method **totalWordsInMap** that returns the total number of words in all the ArrayLists in the HashMap **myMap**.

Which two of the following code possibilities compute this sum of total number of words in the variable **sum**?



1 / 1 points

19. Consider the map version of GladLibs and consider the method **totalWordsConsidered** that returns the total number of words in the ArrayLists of the categories that were used for a particular GladLib. Assume a private variable of type ArrayList<String> and named **categoriesUsed** is used to store the unique categories found as the GladLib is created.

In which method would we put a category into this ArrayList?

