GladLibs Quiz, 19 questior	ns	
1 point	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;
		<pre>6 } 7 else { 8 wordsUsed.add(sub); 9 } 10 }</pre> Which one of the following best explains why this code still returns duplicates sometimes?
		The "if condition" is always false the first time in the loop, so the else part is executed the first time through the loop. This means the while loop always executes its body at least twice so some words may be used a second time. Repeated words are also put into wordsUsed, so the call to getSubstitute may
		 choose a repeated word. The "if condition" is always false in the loop, so the else part is always executed. This always results in a second random word. If a word is a repeated word, then this code gets another random word and uses that second word without checking to see if it is a repeated word.
1 point	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?
		getSubstitute myStory processWord The GladLibs constructor.
1 point	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 point	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 point	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 point	6.	Consider the class CharactersInPlay , which you wrote in an assignment, that determine who the characters were in one of Shakespeare's plays and also how many lines they had. Of the characters who have fewer than 100 lines in the file errors.txt , which of these characters has the most speaking parts? ADRIANA
1 point	7.	Consider the class CharactersInPlay , which you wrote in an assignment, that determine 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 <u>third</u> most speaking parts in the file errors.txt . How many speaking parts does this person have?
1 point	8.	Consider the class CharactersInPlay , which you wrote in an assignment, that determine 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 point	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 point	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 point	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.) CAG TGT ATG CAA GCC GAT
1 point	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 point	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 <u>four</u> of the seven files?
1 point	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? caesar.txt confucius.txt errors.txt hamlet.txt likeit.txt macbeth.txt romeo.txt
1 point	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.) caesar.txt confucius.txt errors.txt hamlet.txt likeit.txt macbeth.txt romeo.txt
1 point	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? makeStory They are created in the constructor. They are not created in a method but are automatically created as part of the definition of the private HashMap variable of <string> to <arraylist<string>>. readIt initializeFromSource</arraylist<string></string>
1 point	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? initializeFromSource Not in a method, but rather, they are placed in automatically as part of the definition of the private HashMap variable of <string> to <arraylist<string>>. in the constructor readIt makeStory</arraylist<string></string>
1 point	18.	<pre>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 int sum = 0; 2 for (String category : myMap.keySet()) { 3 sum += myMap.get(category).size(); 4 } 1 int sum = 0; 2 for (String category : myMap.keySet()) { 3 ArrayList<string> words = myMap.get(category); 4 sum += words; 5 }</string></pre>
		<pre>1 int sum = 0; 2 for (String category : myMap.keySet()) { 3 sum += myMap.get(category); 4 } 1 int sum = 0; 2 + for (String category : myMap.keySet()) { 3 ArrayList<string> words = myMap.get(category); 4 sum += words.size();</string></pre>

		3 sum += wordlist.size(); 4 }
1	10.	onsider the map version of GladLibs and consider the method totalWordsConsidered
point	for	at returns the total number of words in the ArrayLists of the categories that were used a particular GladLib. Assume a private variable of type ArrayList <string> and named tegoriesUsed is used to store the unique categories found as the GladLib is created.</string>
	In	which method would we put a category into this ArrayList?
	(makeStory
	(totalWordsConsidered
	(getSubstitute
	(fromTemplate
	(readIt

int sum = 0;
for (ArrayList<String> wordlist : myMap.keySet()) {
 for (String word : wordlist) {
 sum += 1;
}

int sum = 0;
for (ArrayList<String> wordlist : myMap.keySet()) {
 sum += wordlist.size();
}

5 }

5 6 }

processWord

I, Ning Zheng, understand that submitting work that isn't my own may result in permanent failure of this course or