- **1.** Fill in the boxes with the correct code segment
 - a) Given a variable named myString of type String, write a statement that will print the length of (the number of characters in) the string.

 b) In Java, objects are usually created using the new keyword, such as: String s = new String("Hello!"); However, there is a simplified method of declaring and initializing a String object in Java. In the box below, write the simplified method of *declaring* an *initializing* the exact same string as in the code statement above.

```
c) Consider the following code:
    String s = /* missing code */;
    System.out.print( s );
  What code segment would replace /* missing code */ such that executing the code would
  result in precisely the output:
    I said:
    "Hello!"
```

d) Consider the following code segment with preceding line numbers:

1 boolean comp = (str1 == str2);

2 System.out.print(comp);

Both str1 and str2 are valid String objects, and both contain the same sequence of characters; however, the equality comparison str1 == str2 returns the value false. Please rewrite line 1 of the code such that comp will be evaluate to true when the str1 and str2 contain the same sequence of characters, and false if they do not.

e) Write a Java statement that will return the last 3 characters of a string with the identifier str.

f) Given two variables, str1 and str2, both of type String, write Java code that will print out the string that is the first of the two lexicographically (basically alphabetically).

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English name: _

- g) Assuming str1 and str2 are never null, write a java statement using the string method compareTo that will always evaluate to the same value as the expression: str1.equals(str2)
- h) Write a chained if statement that will determine the longest of the three strings "pea", "pear", and "pearl" that occur in variable str of type String. For example, if str has the value "the pear in the bowl", the code segments should both print "pear" and if str has the value "the pea and the pearl", the code segments should both print "pearl". Assume that str contains at least one instance of "pea".

2. Recall our previous isTeenager assignment. Many students produced code such as this:

```
public static boolean isTeenager(int age) {
    if(age >= 13 && age <= 19) {
        return true;
    } else {
        return false;
    }
}</pre>
```

In the box below, rewrite the above code such that the if statement uses logical "or" (||) rather than logical "and" (&&).