Started on	Wednesday, 11 May 2022, 12:20 PM
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What is the result of the following code?

```
public class Lion {
public void roar(String roar1, StringBuilder roar2) {
roar1.concat("!!!");
roar2.append("!!!");
}
public static void main(String[] args) {
String roar1 = "roar";
StringBuilder roar2 = new StringBuilder("roar");
new Lion().roar(roar1, roar2);
System.out.println(roar1 + " " + roar2);
} }
```

Select one:

- ⦿ **a. roar roar!!!**
- ◯ **b. roar!!! roar!!!**
- ◯ **c. roar!!! roar**
- ◯ **d. An exception is thrown.**
- ◯ **e. The code does not compile.**
- ◯ **f. roar roar**

Which of the following methods compile? (Choose all that apply)

Select one or more:

- ☐ **a. public int methodG() { return null;}**
- ☑ **b. public void methodD() {}**
- ☑ **c. public int methodD() { return 9;}**
- ☐ **d. public int methodE() { return 9.0;}**
- ☑ **e. public void methodA() { return;}**
- ☐ **f. public void methodB() { return null;}**
- ☐ **g. public int methodF() { return;}**

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1. What is output by the following code? (Choose all that apply)

```
1: public class Fish {
2: public static void main(String[] args) {
3: int numFish = 4;
4: String fishType = "tuna";
5: String anotherFish = numFish + 1;
6: System.out.println(anotherFish + " " + fishType);
7: System.out.println(numFish + " " + 1);
8: } }
```

Select one:

- ○ **a. 4 1**
- ◉ **b. The code does not compile.**
- ○ **c. 5tuna**
- ○ **d. 5 tuna**
- ○ **e. 41**
- ○ **f. 51tuna**
- ○ **g. 5**

What is the result of the following code?

```
7: StringBuilder sb = new StringBuilder();
8: sb.append("aaa").insert(1, "bb").insert(4, "ccc");
9: System.out.println(sb);
```

Select one:

- ○ **a. bbaaccca**
- ○ **b. abbaaccc**
- ◉ **c. abbaccca**
- ○ **d. An exception is thrown.**
- ○ **e. The code does not compile.**
- ○ **f. bbaaaccc**

Given the following method, which of the method calls return 2? (Choose all that apply)

```
public int howMany(boolean b, boolean... b2) {
return b2.length;
}
```

Select one or more:

- ☐ **a. howMany(true, {true});**
- ☑ **b. howMany(true, new boolean[2]);**

☑ **c. howMany(true, true, true);**

☐ **d. howMany();**

☐ **e. howMany(true, true);**

☐ **f. howMany(true, {true, true});**

☐ **g. howMany(true);**

Which of the following compile? (Choose all that apply)

Select one or more:

☑ **a. public void moreA(int... nums) {}**

☑ **b. public void moreG(String[] values, int[] nums) {}**

☐ **c. public void moreC(int... nums, String values) {}**

☑ **d. public void moreB(String values, int... nums) {}**

☐ **e. public void moreF(String... values, int[] nums) {}**

☐ **f. public void moreD(String... values, int... nums) {}**

☐ **g. public void moreE(String[] values, ...int nums) {}**

Which of the following are output by this code? (Choose all that apply)

3: String s = "Hello";

4: String t = new String(s);

5: if ("Hello".equals(s)) System.out.println("one");

6: if (t == s) System.out.println("two");

7: if (t.equals(s)) System.out.println("three");

8: if ("Hello" == s) System.out.println("four");

9: if ("Hello" == t) System.out.println("five");

Select one or more:

☐ **a. The code does not compile.**

☑ **b. four**

☑ **c. three**

☐ **d. five**

☐ **e. two**

☑ **f. one**

Which of the following can fill in the blank in this code to make it compile? (Choose all

that apply)

public class Ant {

_____ void method() { }

}

Select one or more:

- ☐ **a. String**
- ☑ **b. final**
- ☐ **c. default**
- ☐ **d. Public**
- ☑ **e. private**
- ☐ **f. zzz:**

Which of the following compile? (Choose all that apply)

Select one or more:

- ☐ **a. private void int method() { }**
- ☐ **b. void final method() {}**
- ☑ **c. static final void method3() { }**
- ☑ **d. final static void method4() { }**
- ☐ **e. void public method() { }**
- ☐ **f. public final int void method() { }**

What is the result of the following code?

2: String s1 = "java";

3: StringBuilder s2 = new StringBuilder("java");

4: if (s1 == s2)

5: System.out.print("1");

6: if (s1.equals(s2))

7: System.out.print("2");

Select one:

- ○ **a. No output is printed.**
- ⦿ **b. The code does not compile.**
- ○ **c. 12**
- ○ **d. 1**
- ○ **e. An exception is thrown.**
- ○ **f. 2**