Practice Quiz, 5 questions

point

Before you can effectively code in Java, you need to be able to understand what your code does. Try to solve the following problems in this quiz by hand!

Consider the following BlueJ program.

```
1 - public class Mystery {
 2
 3 -
       * read file of mysterious phrases
 5
 6
    public void DoSomething() {
 7 -
       // initialize instance variables
       FileResource someFile = FileResource("phrases.txt");
 9
       for (String phrase : someFile.lines()){
10 -
          System.out.println(phrase);
11
12
13
14 }
```

Which one of the following is the name of a method?

```
Mystery
```

phrase

someFile

DoSomething

1 point

Consider the following Java class. 2.

```
1 → public class Thing {
 2
 3
      private int a;
 4
    public Thing(int x) {
       a = x;
 8
9 - public int geta() {
10
     return a;
11
12
13 → public void print() {
       int b = 4;
14
15
       System.out.println(geta() + " " + b);
16
17 }
```

Which method is the constructor?

```
Thing
```

print

а

geta

point

Consider the following class named Something that uses the edu.duke FileResource class. 3.

```
1 - public class Something {
 2
 3 - public void run() {
       FileResource f = new FileResource("words.txt");
 4
     for (String g : f.lines()) {
 5 -
         System.out.println(g);
 6
 7
          System.out.println(g);
 8
 9
10 }
```

Suppose the file words.txt contains the following lines:

cat giraffe

bird

zebra

How many times is the for loop executed? Hint: Be sure to review the documentation for FileResource if you do are not sure what

this class does or what methods it contains: http://www.dukelearntoprogram.com/course2/doc/.

3

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4. 1 int m = 7;

Consider the following Java code segment.

```
2 int n = 9;
3 double d = 4.5;
4 double f = 8.974;
```

work? (Hint: Review the video on **Types** if you are unsure what casting variables means.) 1 int x = m + n;

Which one of the following arithmetic expressions would need a cast for the addition to

```
1 int y = n + f;
1 double w = d + f;
1 double z = m + f;
```

point

1

5.

1 → public class Thing {

Consider the Thing class shown below.

```
2
         private int a;
    3
    4
         public Thing(int x) {
    5 -
    6
           a = x;
    7
    8
         public int geta() {
   10
           return a ;
   11
   12
  13 → public void combine (Thing y) {
   14
           a = a + y.geta();
   15
  16 }
And consider the following code segment that uses the Thing class.
```

1 Thing f = new Thing(6); 2 Thing g = new Thing(8);

```
3 f.combine(g);
   4 System.out.println(f.geta());
   5 System.out.println(g.geta());
What is printed when this code is executed?
```

6

14

14

14

6

8

14

8

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