

points

1. 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
 9
        FileResource someFile = FileResource("phrases.txt");
       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

Correct

DoSomething



2. Consider the following Java class.



```
1 → public class Thing {
 2
      private int a;
     public Thing(int x) {
 6
       a = x;
 7
 8
     public int geta() {
 9 -
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

Correct

print

а

geta



3.

1 → public class Something {



```
public void run() {
    FileResource f = new FileResource("words.txt");
    for (String g : f.lines()) {
        System.out.println(g);
        System.out.println(g);
    }
    }
}
Suppose the file words.txt contains the following lines:
```

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

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

Correct Response

This is the correct answer. It executes once for each line in the file.



4.

1 int m = 7;
2 int n = 9;
3 double d = 4.5;
4 double f = 8 974;

Consider the following Java code segment.

1 int x = m + n;

1 int y = n + f;

1 double z = m + f;



```
Which one of the following arithmetic expressions would need a cast for the addition to work? (Hint: Review the video on Types if you are unsure what casting variables means.)
```

```
Correct
This is the correct answer. Here is one way to add a cast to this line:

1 int y = n + (int)f;
```

```
Consider the Thing class shown below.
```

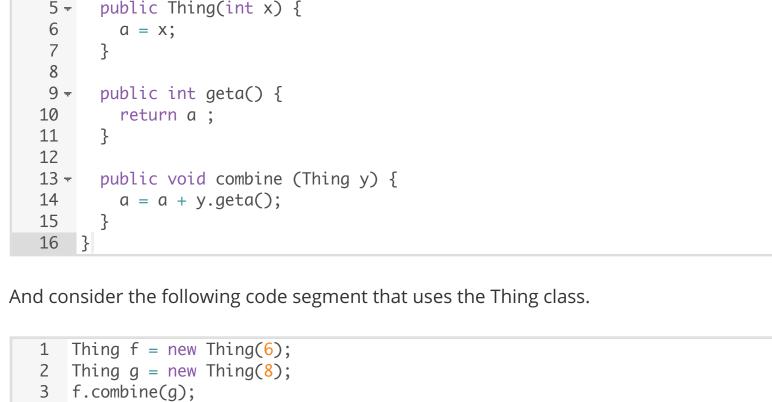


5.

2

3 private int a;
4
5 - public Thing(int x) {

1 - public class Thing {



4 System.out.println(f.geta());
5 System.out.println(g.geta());

```
What is printed when this code is executed?

6
```

14

14

6

8

14

8

Correct
