Classes, Types, and For Each Loops

Practice Quiz, 5 questions

5/5 points (100%)

1/1 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.

```
public class Mystery {

  /**
   * read file of mysterious phrases
   */

  public void DoSomething() {
    // initialize instance variables
    FileResource someFile = FileResource("phrases.txt");
    for (String phrase : someFile.lines()){
      System.out.println(phrase);
    }
  }
}
```

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

- Mystery
- phrase
- someFile
- DoSomething

Correct

1/1 points

2. Consider the following Java class.

```
public class Thing {

  private int a;

  public Thing(int x) {
    a = x;
  }

  public int geta() {
    return a;
  }

  public void print() {
    int b = 4;
    System.out.println(geta() + " " + b);
  }
}
```

Which method is the constructor?

- Thing

Correct

- print
- a
- geta

1/1 points

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

```
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:

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/*](http://www.dukelearntoprogram.com/course2/doc/).

3

Correct Response

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

1/1 points

4. Consider the following Java code segment.

```
int m = 7 ;
int n = 9 ;
double d = 4.5 ;
double f = 8.974 ;
```

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.)

```
int x = m + n ;
```

```
int y = n + f;
```

Correct

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

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

```
double w = d + f ;
```

```
double z = m + f ;
```

1/1 points

5. Consider the Thing class shown below.

```
public class Thing {

  private int a;

  public Thing(int x) {
    a = x;
  }

  public int geta() {
    return a ;
  }

  public void combine (Thing y) {
    a = a + y.geta();
  }
}
```

And consider the following code segment that uses the Thing class.

```
Thing f = new Thing(6);
Thing g = new Thing(8);
f.combine(g);
System.out.println(f.geta());
System.out.println(g.geta());
```

What is printed when this code is executed?

- **6**

  14
- **6**

  8
- **14**

  14
- **14**

  8

Correct