Exercises: Variables, Input, and Strings

Code Reading

1. What does the following output to the console?

```java
public class Exercise {
    public static void main(String[] args) {
        System.out.print("If you think education is expensive, ");
        System.out.println("try ignorance.");
    }
}
```

**Solution:**

If you think education is expensive, try ignorance.

2. What does the following output to the console?

```java
public class Exercise {
    public static void main(String[] args) {
        System.out.println("There are 10 kinds of people in this world:");
        System.out.println("those who know binary and those who don’t.");
    }
}
```

**Solution:**

There are 10 kinds of people in this world: those who know binary and those who don’t.
3. What does the following output to the console?

```java
public class Exercise {
    public static void main(String[] args) {
        System.out.println("And on");
        System.out.println(" and on");
        System.out.print(" and on");
        System.out.print(" and on");
    }
}
```

**Solution:**

```
And on
    and on
    and on and on
```

4. Circle all of the following that are properly formatted strings.

"One string, two string" invalid

"Hello!" valid

" " valid

Good-bye invalid
Code Writing

5. Write a program to output the following to the console using `print` statements, one for each word. Pay careful attention to spacing! Check your answer in Eclipse.

```
Hello, world!
```

```
public class Exercise {
    public static void main(String[] args) {

    }
}
```

6. Write a program to output the following to the console using `println` statements. Check your answer in Eclipse.

```
They’re taking the hobbits to Isengard.
```

```
public class Exercise {
    public static void main(String[] args) {

    }
}
```
7. Below, place a multi-line comment above the class with your name, date, and major each on a separate line. Inside main, write a single line comment explaining that you are demonstrating how to use the print statement, and on the next line, write a print statement that prints your information in the following format:

```
<yournamethere>: <major> (<date>)
```

For example, my program would display the following:

```
Allie Sauppe: computer science (Sept. 6, 2016)
```

When you are done, check your answer in Eclipse.

```java
public class Exercise {
    public static void main(String[] args) {

    }
}
```