

## Java Software Development Quiz 2

1. Which of the following is not a legal identifier? Select the one correct answer.

- (a) a2z
- (b) ödipus
- (c) 52pickup
- (d) \_class
- (e) ca\$h

2. Which statement about the following comment is true?

```
/* // */
```

Select the one correct answer.

- (a) The comment is not valid. The multiple-line comment (`/* ... */`) does not end correctly, since the comment-end sequence `*/` is a part of the single-line comment (`// ...`).
- (b) It is a completely valid comment. The `//` part is ignored by the compiler.
- (c) This combination of comments is illegal, and will result in a compile time error.

3. Given the following code within a method, which statement is true?

```
int a, b;
```

```
b = 5;
```

Select the one correct answer.

- (a) Local variable a is not declared.
- (b) Local variable b is not declared.
- (c) Local variable a is declared but not initialized.
- (d) Local variable b is declared but not initialized.
- (e) Local variable b is initialized but not declared.

4. What will be the result of compiling and running the following program?

```
public class Init {  
    String title;  
    boolean published;  
    static int total;  
    static double maxPrice;  
  
    public static void main(String[] args) {  
        Init initMe = new Init();  
        double price;  
        if (true)  
            price = 100.00;  
        System.out.println("|" + initMe.title + "|" + initMe.published + "|" +  
            + Init.total + "|" + Init.maxPrice + "|" + price + "|");  
    }  
}
```

Select the one correct answer.

- (a) The program will fail to compile.
- (b) The program will compile, and print |null|false|0|0.0|0.0|, when run.
- (c) The program will compile, and print |null|true|0|0.0|100.0|, when run.
- (d) The program will compile, and print | |false|0|0.0|0.0|, when run.
- (e) The program will compile, and print |null|false|0|0.0|100.0|, when run.

# Answer

1. (c)

52pickup is not a legal identifier. The first character of an identifier cannot be a digit.

2. (b)

It is a completely valid comment. Comments do not nest. Everything from the start sequence of a multiple-line comment (/\*) to the first occurrence of the end sequence of a multiple-line comment (\*/) is ignored by the compiler.

3. (c)

Local variable a is declared but not initialized. The first line of code declares the local variables a and b. The second line of code initializes the local variable b. Local variable a remains uninitialized.

4. (e)

The program will compile. The compiler can figure out that the local variable price will be initialized, since the value of the condition in the if statement is true. The two instance variables and the two static variables are all initialized to the respective default value of their type.