

# CS 4501/6501: Quiz 4

19-Sep-2017

Names:

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**Instruction:** Answer the questions as concisely as you can. Please write neatly; if I can't read it I have to mark it wrong.

1. (9 pts.) Consider the follow six code snippets from our TDD discussion:

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// Snippet A:
public class Template{
    public Template (String templateText) {}
    public void set (String variable, String value) {}
    public String evaluate() { return "Hello, Reader"; }
}

// Snippet B:
public class Template {
    private String variableValue;
    public Template(String templateText) {}
    public void set(String variable, String value) {
        this.variableValue = value;
    }
    public String evaluate() { return "Hello, " + variableValue; }
}

// Snippet C:
@Test public void oneVariable() throws Exception {
    Template template = new Template("Hello, ${name}");
    template.set("name", "Reader");
    assertEquals("Hello, Reader", template.evaluate());
}

// Snippet D:
@Test public void differentTemplate() throws Exception {
    Template template = new Template("Hi, ${name}");
    template.set("name", "someone else");
    assertEquals("Hi, someone else", template.evaluate());
}

// Snippet E:
@Test public void differentValue() throws Exception {
    Template template = new Template("Hello, ${name}");
    template.set("name", "someone else");
    assertEquals("Hello, someone else", template.evaluate());
}

// Snippet F:
public class Template{
    public Template (String templateText) {}
    public void set (String variable, String value) {}
    public String evaluate() { return null; }
}
```

To complete this quiz, do the following to place the snippets in order of creation

- o (0.5 pt. each) **Place** the letter A-F in the appropriate order
- o (0.5 pt. each) **Circle** the appropriate status behind each selection. Reminder: test code is simply code and it does not compile when it tries to execute a nonexisting class/object/method.
- o (0.5 pt. each) Briefly **explain** why you think that status is appropriate

1.   C   [ Does Not Compile; Red Bar; Green Bar ] Why? class Template doesn't exist
2.   F   [ Does Not Compile; Red Bar; Green Bar ] Why? created Template, expected != actual
3.   A   [ Does Not Compile; Red Bar; Green Bar ] Why? added code, expected = actual
4.   E   [ Does Not Compile; Red Bar; Green Bar ] Why? added test, expected != actual
5.   B   [ Does Not Compile; Red Bar; Green Bar ] Why? added code, expected = actual
6.   D   [ Does Not Compile; Red Bar; Green Bar ] Why? added / refactored test, expected != actual

2. (1 pt.) Discuss how you could apply what you have learned from guest speakers (meeting 09/12) to your programming assignment / project.