

Java Style Standards Quiz

ANSWER KEY

1. (4 pt) Match the following names with what they must stand for using the Java Style Standards:

NAME.ONE	variable or method name
NameTwo	should not be used!
nAmEtHrEe	constant member data
nameFour	class name

SOLUTION

nameFour	variable or method name
nAmEtHrEe	should not be used!
NAME.ONE	constant member data
NameTwo	class name

2. (3 pt) Write a Javadoc-style comment for the following method. SOLUTION

```
/**
 * Multiplies the numbers 1 to the input, x, and returns the product.
 * In other words, returns the factorial of x.
 */

int fact(int x) {
    int answer = 1;
    for (int i=1; i<=x; i++)
        answer *= i;
    return answer;
}
```

3. (3 pt) What's wrong with these member data? (There are six things wrong with them). List at least three issues and fix them.

```
public class Quiz {
    int n;
    int[] myanswers, answerkey;
    int gradequiz() {
        int sum = 0;
        for (int i=0; i<n; i++) {
            sum += (myanswers[i] == answerkey[i]) ? 1 : 0;
        }
        return sum;
    }
}
```

SOLUTION

- (a) No sharing tags (private unless a reason otherwise)
- (b) Multiple declarations per line
- (c) Second word of member names should be in caps (e.g. myAnswers)
- (d) n? Bad name! Really, it's the number of questions on the quiz!
- (e) No space between instance variables and method declarations
- (f) No member documentation

```
public class Quiz {
    private int numQuestions; // number of questions on the quiz

    private int[] myAnswers; // an array of my answers to the quiz

    private int[] answerKey; // the array of correct answers

    /**
     * Grades my answers to the quiz against the answer key and
     * returns my score.
     */
    public int gradeQuiz() {
        int sum = 0;
        for (int i=0; i<numQuestions; i++) {
            sum += (myAnswers[i] == answerKey[i]) ? 1 : 0;
        }
        return sum;
    }
}
```