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CSE 2221 Homework 1

Professor Bucci

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1. "Going over the line" with respect to acceptable collaboration v. academic misconduct would be:

- turning in an assignment from a previous offering of the course
- writing up a solution when someone is providing explicit
- writing up a solution when someone is providing explicit, specific advice for fixing your errors
- accepting or downloading from any source any part of a solution to an assignment which could help in completing your assignment
- giving to others or uploading to the internet any parts of a solution to your assignments
- any of above transgressions with respect to all individuals or entities outside of your own team when working on an assignment permitting teamwork

2. Your final exam grade constitutes 30% of your course grade, and additionally, you must earn a passing grade on your final exam in order to pass the course.

3. No, your homework grade will not be better if you look up and copy the answers because you will be caught for plagiarism and receive a zero on the assignment in addition to other, more serious repercussions.

4. The two most important benefits of the Java language are that it is safe, and portable.

5. An algorithm is a sequence of steps for solving a problem which is unambiguous, executable, and terminating.

6. The two main categories of errors to be encountered when programming are compile-time(syntax) errors, and run-time(logic) errors.

7.

a. Compile-time error.

b. Compile-time error.

c. Run-time error.

d. Run-time error.

e. You cannot test a program for run-time errors when it has compile-time errors because by definition, run-time errors occur during the execution of the program, and the program cannot execute if it does not compile, which it won't if it has compile-time errors.

8. The print statement

System.out.println("39 + 3");

prints the literal text string "39 + 3" since it is enclosed in quotes. The print statement

System.out.println(39 + 3);

computes the quantity

$$39 + 3 = 40$$

and prints "40" since the input is not enclosed in quotes and is interpreted mathematically. The print statement

System.out.println("39" + 3);

prints the literal text string "39" since it is enclosed in quotes, and then computes

$$+3 = 3$$

and also prints the solution of this expression, and thus prints "393".

Additional Question:

API - Application Program Interface. A set of routines, protocols, and tools for building software applications.

CPU - Central Processing Unit. The circuitry within a computer that executes the instructions of a computer program by performing the basic arithmetic and logic operations specified by the instructions.

- IBM - International Business Machines. An American multinational technology company out of New York which had a pivotal role in the infancy of the digital age.

IDE - Integrated Development Environment. A comprehensive software application designed for programming typically containing a source code editor, build automation tools, and a debugger.

- JDK - Java Development Kit. A software development kit aimed at Java developers which is an implementation of some version of the Java platform.

- JVM - Java Virtual Machine. An abstract computing device that enables computers to run a Java program.

- GUI - Graphical User Interface. A user interface which allows a user to interact with electronic devices through graphical icons and visual indicators.

- LAN - Local Area Network. An interconnected computer network with a limited area (e.g. residence network).

- MAC - Media Access Control. A computer network sublayer between the logical link control and the physical layer.

- RSS - Rich Site Summary. A family of web feed formats used to publish frequently updated online information.

- UUT - Unit Under Test. A manufactured product undergoing testing.

- XML - Extensible Markup Language. A common markup language used for encoding a set of rules which is both human and machine-readable.