The Self-Quiz gives you an opportunity to self-assess your knowledge of what you have learned so far.

The results of the Self-Quiz do not count towards your final grade, but the quiz is an important part of the University's learning process and it is expected that you will take it to ensure understanding of the materials presented. Reviewing and analyzing your results will help you perform better on future Graded Quizzes and the Final Exam.

Please access the Self-Quiz on the main course homepage; it will be listed inside the Unit.

What does a Java compiler do?

Select one:

○ a. Runs Java programs

○ b. Translates byte code in ".class" files into machine language

○ c. Translates source code in ".class" files into machine language

○ d. Translates source code in ".java" files into Java byte code in ".class" files

○ e. Translates source code in ".java" files into machine language
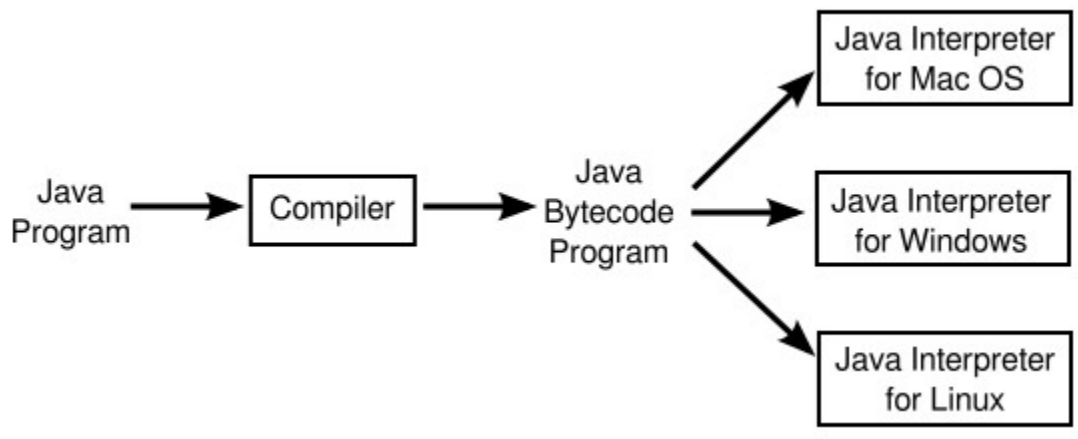
NOTE: When you're running a java program (such as Main.java) from your terminal:

$ javac Main.java

This command runs t*he Java compiler* and a "Main.class" file will appear. If the Main.java file contains any syntax errors, the compiler will not translate the file to byte code. You will also see error messages.

$ java Main

This command runs **the Java interpreter** and executes the program. As you can see from the example above, you do not need to type out the .class extension in order to run Main.class file.

Consider the following line of Java code.

`System.out.println("Hello, World!");`

The full line of code is which of the following?

Select one:

○ a.   a class

○ b.   a method (subroutine)

○ c.   an object

○ d.   a parameter

○ e.   a statement

Correct answer: A statement

Which of the following is NOT a valid identifier in Java?

Select one:

○ a. p

○ b. Public

○ c. public

○ d. public23

○ e. PuBllc_tWeNtY_3

NOTE: "public" is a reserved keyword in Java and cannot be used as an identifier.

Consider the following line of Java code.

```
System.out.println("Hello, World!");
```

"System" is which of the following?

Select one:

○ a. a class

○ b. a method (subroutine)

○ c. an object

○ d. a parameter

○ e. a statement

NOTE: "System" is a built-in Java class with static member objects, like "out".

Consider the following Java statements.

```
int x = 3;
x = x++;
```

What is the value x is holding?

Select one:

○ a. 0

○ b. 3

○ c. 4

○ d. 5

○ e.   The question is moot. The statements have a syntax error.

NOTE: x++ uses and then increments the variable. ++x increments and then uses the variable.

int y = 1;

System.out.println(y++); // prints 1

System.out.println(y); // prints 2

System.out.println(++y); // prints 3