Signature	
------------------	--

CSE 11 Quiz 2

Name

cs11f ____

Fall 2010

Student ID _____

This quiz is to be taken **by yourself** with closed books, closed notes, no calculators.

(Partial) Operator Precedence Table

	C	Operators		Associativity
*	/	%		left to right
+	-			left to right
<	<=	>	>=	left to right
==	!=			left to right
&&				left to right
				left to right
=				right to left

1) What are the values of x and y (left) and a and b (right) after the following code segments are executed?

```
int x = 2, y = 4;
if ( x++ >= 3 || --y >= 3 )
   x = x++ + --y;
else
  x = ++x + y--;
```

int a = 2, b = 4;
if (a++ >= 3 &&b >= 3)
a = a++ +b; else
a = ++a + b;

```
a = b =
```

2) What is the equivalent Java expression for the following expression such that no ! operators are used?

```
!( a > 5 && b != -9 )
```

3) Assume we have a Java source file named Program.java and it uses at least one class in the objectdraw library.

Write the full Unix command to compile this Java program.

This command will produce a file named:

Write the full Unix command to run this as a Java application.

Assume we have correctly written a Program.html file. Write the full Unix command to run the above program as an applet.

4) Assume a program had the following declara

```
Location loc1 = new Location( 42, 420 );
Location loc2 = loc1;
Location loc3 = new Location( loc2 );
```

What results would be produced by evaluating the following expressions?

```
( loc1 == loc2 ) _____ loc1.equals( loc3 ) ______
( loc2 == loc3 ) _____ loc3.equals( new Location( loc2 ) ) ______
```

// Line 3

5) What output is produced with the following code fragment? Assume method1() is invoked as

```
Quiz2 q2 = new Quiz2();
q2.method1( 17 );
```

public class Quiz2

private int a;

```
public void method1( int x )
                                           // Line 7
   int a;
   int b = x;
   a = b % 5;
   this.a = b / 3;
   System.out.println( "a = " + a );
   System.out.println( "b = " + b );
   System.out.println( "this.a = " + this.a );
   System.out.println( "method2() result = " + method2( x ) );
   System.out.println( "this.a = " + this.a );
 private int method2( int x )
   int a = x;
   int b = this.a;
   b = b * 2;
   System.out.println( "a = " + a );
   System.out.println( "b = " + b );
   System.out.println( "this.a = " + this.a );
   this.a = b + 2i
   return a + 2;
 }
}
```

```
Output:
a = _____
b = ____
this.a = ____
a = ____
b = ___
this.a = ____
this.a = ____
method2() result = ____
this.a = ____
```

What is the initial value of a on Line 3?

What is the initial value of a on Line 7?