Signature	CSE 11	Name
	Quiz 2	
cs11f	<b>Fall 2009</b>	Student ID

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

(Partial) Operator Precedence Table

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 is the output of this code? (Circle correct letter.)

```
public class Test1
{
   public static void main(String[] args)
   {
     int x = 1;
     if (x < 2)
       System.out.print("Hello, ");
     if (x > 1)
       System.out.print("How are you? ");
   else
      System.out.println("I am fine.");
   }
}
```

```
A. Hello, I am fine.
```

B. Hello, How are you?

C. Hello,

D. How are you? I am fine.

2) Which of the statements below is logically equivalent to the if-conditional:

```
if( !P && Q )
```

Assume for any two independent statements P and Q. (Circle correct letter.)

```
\begin{array}{lll} A. \; \text{if( !!P || Q )} \\ B. \; \text{if( !(P || !Q) )} \end{array}
```

$$C. if( !(P \&\& !Q) )$$

$$D.if(!Q \&\& P)$$

3) What is the value of Nag after the assignment statement below? (Circle correct letter.)

```
double Nag = 25;
Nag = Nag + Nag * (1/5);
A. 25.0
B. 30.0
C. 10.0
```

D. None of the above or an error of some kind exists (compile time or run time)

4) Assume a program had the following declar	rations:	
Location loc1 = new Location( 2, 3 ); Location loc2 = new Location( loc1 ); Location loc3 = loc1;		
What result would be produced by the followi	ng expressions?	
( loc1 == loc2 )	loc1.equals( loc2 )	
( loc2 == loc3 )	loc2.equals( loc3 )	
5) What output is produced with the following Quiz2 q2 = new Quiz2(); q2.method1( 5 );	g code fragment	? Assume method1() is invoked as
<pre>public class Quiz2 {</pre>		
private int a;	// Line 3	
<pre>public void method1( int x )</pre>		
<pre>{   int a;   int b = x;</pre>	// Line 7	
a = b + 2; this.a = b + 3;		
<pre>System.out.println( "a = " + a ); System.out.println( "b = " + b ); System.out.println( "this.a = " + System.out.println( "method2() re System.out.println( "this.a = " + }</pre>	this.a ); sult = " + me	ethod2( x ) );
<pre>private int method2( int x )</pre>		Output:
<pre>{   int a = x;   int b = this.a;</pre>		a = b =
b = b + 3;		this.a =

this.a = b + 1;

return a + 1;

} }

System.out.println( "a = " + a ); System.out.println( "b = " + b );

System.out.println( "this.a = " + this.a );

What is the initial value of a on Line 7? \_\_\_\_

method2() result = \_\_\_\_\_

this.a = \_\_\_\_\_

this.a = \_\_

What is the initial value of a on Line 3? \_\_\_\_\_