

Signature _____

CSE 11

Name _____

cs11f _____

Quiz 1
Fall 2012

Student ID _____

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

(Partial) Operator Precedence Table

Operators			Associativity	
!	++	-- (pre & post inc/dec)	right to left	
*	/	%	left to right	
+	-		left to right	
<	<=	>	>=	left to right
==	!=		left to right	
&&			left to right	
			left to right	
=			right to left	

1. Using the operator precedence table above, evaluate each expression and state what gets printed. Remember short-circuit evaluation with && and ||.

```

int a = 2;
int b = -1;
int c = 7;
boolean exp1 = a + b * c >= a + c * b;      _____ (value of exp1)

boolean exp2 = !(c + a < b);                _____ (value of exp2)

boolean exp3 = b - a >= c;                  _____ (value of exp3)

boolean z = exp1 && !exp2 || exp3;
System.out.println( "z = " + z );          _____

z = exp1 || exp2 && exp3;
System.out.println( "z = " + z );          _____

b = --b + ++a % 4 * c++ * 2;
System.out.println( "a = " + a );          _____

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

System.out.println( "c = " + c );          _____

```

2. Which of the following are valid Java identifiers? (Circle your answer(s).)

- 3rdLine The_Avengers one/two Int
- nine2five lower-half Seven%Solution Ex2_3_4

3. The naming convention for a method name is (Circle correct letter)

- A. start with uppercase, rest mixed
- B. start with lowercase, rest mixed
- C. all lowercase letters with underscores
- D. all uppercase letters with underscores

(Continued on other side)

4. What is the symbol '!' affectionately known as in computer lingo?

5. What gets printed with each of the following statements?

```
int a = 9;
int b = 3;
int c = 4;
```

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

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

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

6.

```
int x = 5, y = 5, z = 5;
```

```
if ( x == 5 )
{
    if ( y >= 7 )
        z = z + 4;
}
else
{
    z = z + 2;
}
```

System.out.println(z); Answer: _____ What gets printed?

```
int x = 5, y = 5, z = 5;
```

```
if ( x == 5 )
    if ( y >= 7 )
        z = z + 4;
else
    z = z + 2;
```

System.out.println(z); Answer: _____ What gets printed?

Note - No curly braces.

7. If multiplication had lower precedence than addition, then the value of the expression

$$3 * 2 + 5 * 4$$

would be _____.

8. What Java keyword is used to specify an identifier is constant (cannot be changed once it is set)?
