Signature
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# CSE 8B

Name

# Quiz 1

cs8b

## Winter 2015 Student ID

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

(Partial) Operator Precedence Table

(Further) Spermer Freedomee Fusie				
Operators			Associativity	
!	++	(pre & post	t 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	

Using the operator precedence table above, evaluate each expression and state what gets printed.

```
int a = -1, b = 2, c = 8;
                                                   true
boolean exp1 = b - a != c;
                                                               (value of exp1)
                                                   false
boolean exp2 = a + b * c < a + c * b;
                                                               (value of exp2)
                                                   false
boolean exp3 = !(c + a >= b);
                                                               (value of exp3)
                                                   true
boolean exp4 = true || false && !false;
                                                               (value of exp4)
                                                   false
boolean exp5 = true && false || false;
                                                               (value of exp5)
```

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

$$x = 8$$
 $y = 1$ 
 $z = 8$ 

$$a = 8$$
 $b = 4$ 
 $c = 11$ 

What gets printed with each of the following statements?

```
int a = 5, b = 4, c = 3;
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 );

c = a + b;
b = 7;
System.out.println( "c = " + c );

c = y

String s1 = "Hello";
String s2 = s1;
String s3 = new String("Hello");
```

What value is produced by evaluating the following expressions?

#### What gets printed when this program is run?

### What gets printed when this program is run?

```
public class Trace {
 public static void main( String[] args ) {
   System.out.println( "main1" );
   foo1();
   System.out.println( "main2" );
   foo2();
   System.out.println( "main3" );
    foo3();
 public static void foo1() {
   System.out.println("A");
   foo3();
   System.out.println( "B" );
 public static void foo2() {
   System.out.println( "C" );
 public static void foo3() {
   System.out.println("D");
   foo2();
   System.out.println("E");
}
```

## What gets printed when this program is run?

```
public class Change {
  public static void main( String[] args ) {
    int a = 7;
    int b = 13;
    change(b, a);

    System.out.println(a + " " + b); // space between a and b
  }

public static void change(int a, int b) {

    System.out.println(a + " " + b); // space between a and b
    a = 22;
    b = 44;

    System.out.println(a + " " + b); // space between a and b
  }
}
```