Name	CSE 8B	Student PID	
	Quiz 1		
VERSION A	Winter 2016	Signature	

This quiz is to be taken **by yourself** with closed books, closed notes, no electronic devices. Write your answers on the answer sheet!

(Partial)	Operator	Precedence	<b>Table</b>
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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

**Problem 1 (3 pts)**: Using the operator precedence table above, state the values of each of the following expressions.

```
int x = 6, y= 3, z = 2; a. boolean \exp 1 = x == z * z + 1; 5 b. boolean \exp 2 = !(x / z > y) && (y * z >= x); true c. boolean <math>\exp 3 = false \mid \mid true && !false; true
```

**Problem 2 (2 pts)**: What gets printed with each of the following statements?

```
int a = 7, b = 2 , c = 0; 
A. System.out.println( "Statement 1 is: " + a + (b + c) + " = " + (a + b) + c ); 72 = 90
B. System.out.println( a + b + (c + " = ") + a + (b + c) ); 90 = 72
```

## **Problem 3 (4 pts):** What gets printed when the following program is run?

```
public class MyArray
{
 public static void main( String[] args ) {
    int [] a = \{12, 5, -13\};
    for(int i=0; i< a.length; i++)</pre>
      int min = i;
      for(int j=i; j<a.length; j++)</pre>
        if(a[j] < a[min])
          min = j;
        }
      }
      swap(a, i, min);
                                                             -13,5,12
      System.out.print(a[i] + ", ");
    }
 public static void swap(int[] a, int i, int j)
    int temp = a[i];
      a[i] = a[j];
      a[j] = temp;
}
```

## **Problem 4 (4 pts):** What gets printed when this program is run?

```
public class Trace {
  public static void main( String[] args ) {
    int[] index = {3, 2, 1, 2};
    int i = index.length - 1;
    while(i >= 0)
      bar(index[i]);
      i--;
  public static void bar(int i) {
    if(i == 1)
                                               B-A-B-Y-
      bar1();
      System.out.print("-");
    else if(i == 2)
      bar2();
      System.out.print("-");
    else
     bar3();
      System.out.print("-");
  public static void bar1() {
    System.out.print( "A" );
  public static void bar2() {
    System.out.print( "B" );
  public static void bar3() {
    System.out.print( "Y" );
Problem 5 (3 pts): What are the results of following expressions?
String s1 = "Good Luck";
                                                                substring(from this int, to this int)
String s2 = "Good Morning";
```

```
String s2 = "Good Morning";
String s3 = "Good Luck";

a. boolean ans1 = s3.contains(s2.substring(0, 5)); true
b. char ans2 = s2.charAt(5); M
c. boolean ans3 = s1 == s3; false
```

**Problem 6 (3 pts):** What are the values of x, y, z after the following code segments are executed?

```
int x = 8, y = 2, z = 1;

if ( ++x > 9 || y-- < 4 )
   z = x-- + ++y;
else
   z = ++x + y--;</pre>
```

$$x = 8$$
$$y = 2$$
$$z = 11$$