Signature

CSE 8B Ouiz 3

Name

cs8b

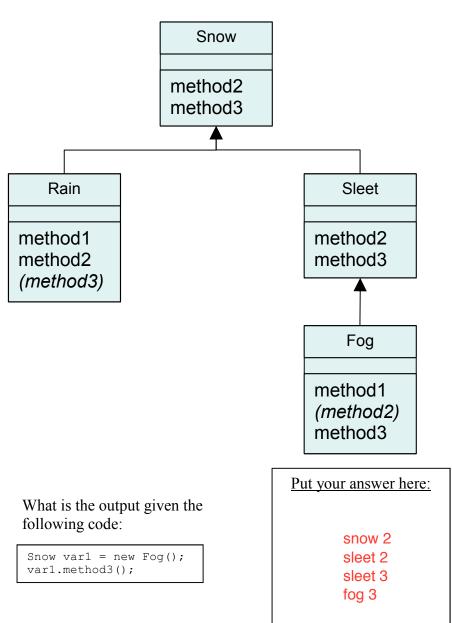
Winter 2015

Student ID _____

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

Given the following class definitions:

```
public class Snow {
  public void method2() {
    System.out.println("Snow 2");
  public void method3() {
    System.out.println("Snow 3");
    method2();
}
public class Rain extends Snow {
  public void method1() {
    System.out.println("Rain 1");
  public void method2() {
    System.out.println("Rain 2");
    super.method2();
    method1();
}
public class Sleet extends Snow {
  public void method2() {
    super.method2();
    System.out.println("Sleet 2");
  public void method3() {
    System.out.println("Sleet 3");
}
public class Fog extends Sleet {
  public void method1() {
    System.out.println("Fog 1");
  public void method3() {
   method2();
    super.method3();
    System.out.println("Fog 3");
```



class Snow (above) implicitly extends object

When using the term static, think compile time while using the term dynamic, think run time

Class Rain (above) has no constructor defined. Write the full code of what the compiler will automatically add:

Given the following class definitions for class Foo, class Fubar, and class FubarTest:

```
public class Foo {
 public Foo() {
   System.out.println( "Foo ctor #1" );
 public Foo( int x, int y ) {
   this();
   System.out.println( "Foo ctor #2" );
 public String toString() {
   System.out.println( "Foo.toString" );
    return "Foo";
}
```

```
public class Fubar extends Foo {
 public Fubar() {
  this( 42, 420 );
   System.out.println( "Fubar ctor #1" );
 public Fubar( int x, int y ) {
   System.out.println( "Fubar ctor #2" );
 public String toString() {
    String s = super.toString() + " + " +
              "Fubar.toString";
   System.out.println( s );
   return "Fubar";
 }
}
```

```
public class FubarTest {
 public static void main( String[] args ) {
    Foo ref = new Fubar();
   System.out.println( "----" );
   System.out.println( ref.toString() );
 }
}
```

```
What is the output when we run FubarTest as in
       java FubarTest
                   foo ctor #1
                   foo ctor #2
                  fubar ctor #1
                  foo.tostring
              foo + fubar.tostring
                      fubar
```

The initGrid() method (below) should initialize a grid of ints as follows (remember indexing is [row][col]): if the row and col indices are the same, set grid[row][col] to 0. If the row and col indices are not the same, set grid[row][col] to the value (row + col). Examples:

```
public static void initGrid( int[][] grid ) {
 for ( int row = ____ ; row < _____ ; ++row ) {
   for ( int col = ____; col < ____
    if ( _____ == ____ ) {
      grid[row][col] =
      grid[row][col] =
    } // end if-else
   } // end inner for
 } // end outer for
} // end initGrid()
```

in is 3 x 3 the grid should be ; ++col) { initialized as: 0 1 2 103 230 If the grid passed If the grid passed in is 4 x 2 the grid in is 4 x 6 the grid

should be initialized as: 0 1 10 23 3 4

If the grid passed