Signature _____ **CSE 11 Quiz 5 Fall 2012** **Name** _____

cs11f ____ **Student ID** _____

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

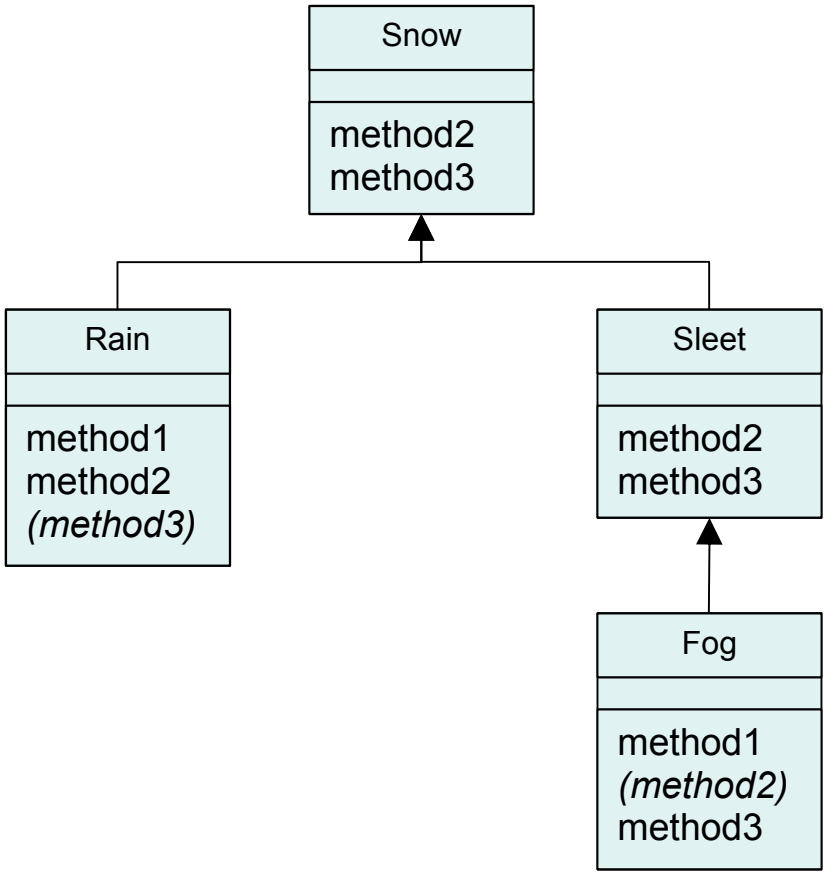
Given the following class definitions:

```
public class Snow {
  public void method2() {
    System.out.println("Snow 2");
  }
  public void method3() {
    System.out.println("Snow 3");
  }
}

public class Rain extends Snow {
  public void method1() {
    System.out.println("Rain 1");
  }
  public void method2() {
    System.out.println("Rain 2");
  }
}

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



What is the output given the following code:

```
Snow var1 = new Fog();
var1.method2();
```

Put your answer here:

A _____ must have the same name as the type or class it is defined in, but must not have a _____ .

Inside a method the keyword used to refer to the object being sent the message is _____ which is passed as a hidden first argument to all _____ methods and constructors, but is not passed as a hidden first argument to any _____ methods.

Given the following class definitions for class Foo, class Fubar1, and class FubarTest:

```
public class Foo
{
  public Foo()
  {
    this( 5, 10 );
    System.out.println( "Foo ctor #1" );
  }

  public Foo( int x, int y )
  {
    System.out.println( "Foo ctor #2" );
  }

  public String toString()
  {
    System.out.println( "Foo.toString" );
    return "Foo";
  }
}
```

```
public class Fubar extends Foo
{
  public Fubar()
  {
    System.out.println( "Fubar ctor #1" );
  }

  public Fubar( int x, int y )
  {
    super( x, y );
    System.out.println( "Fubar ctor #2" );
  }

  public String toString()
  {
    System.out.println( "Fubar.toString" );
    return "Fubar" + " " + "
           + super.toString();
  }
}
```

```
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

Given the following expressions, indicate whether the expressions evaluate to true or false.

```
String s1 = new String( "CSE 11" );
String s2 = new String( "CSE 11" );
String s3 = s1;

s1 = "CSE 11";
```

s1 == s2	_____
s1 == s3	_____
s2 == s3	_____
s1.equals(s2)	_____
s1.equals(s3)	_____
s2.equals(s3)	_____
s1 == "CSE 11"	_____
s2 == "CSE 11"	_____
s3 == "CSE 11"	_____

What question would you like to see on the Final Exam?