Signature	CSE 11	Name
cs11f	Quiz 3 Fall 2011	Student ID
This quiz is to be taken by yourself with closed	d books, closed not	es, no calculators.
What gets printed when the following program	is run?	
public class While		
<pre>public static void main(String[] args) {</pre>		
final int MAX = 11; int i = 8, j = 8;		
<pre>while (i <= MAX) {</pre>		
<pre>j = i; while (j < MAX) { j; System.out.println(i + " " + j); j += 3;</pre>		
} i++; }		
<pre>System.out.println(i + " " + j); }</pre>		
By default, method headers in a Java interface of	definition are impli	icitly
an	d	
Java interface definitions cannot have (list all the	hat are applicable)	
		A) method defintions B) public static final constants C) constructors D) instance variables
The rules for using ActiveObjects from the object	ectdraw library are	(list all that are applicable)
	B) defin C) defin D) call s E) call s F) defin G) call r H) call r I) pause	ne a class that implements ActiveObject ne a class that extends ActiveObject ne a start() method start() as the first line in the constructor ntart() as the last line in the constructor ne a run() method nun() from the constructor nun() from the begin() method nun() occasionally in start() ne() occasionally in run()

Given the following definitions:

```
public interface Doable
{
   void doit();
}
```

```
public class Thing1 implements Doable
{
  private static final String SPEAK = "Me";
  public Thing1()
  {
     // ctor initialization here
  }
  public String speak()
  {
    return SPEAK;
  }
  public void doit()
  {
     // Thing1 does its thing
  }
}
```

```
public class Thing2 implements Doable
{
  public static final String SPEAK = "No, Me";
  public Thing2()
  {
     // ctor initialization here
  }
  public String speak( String s )
  {
     return SPEAK + s;
  }
  public void doit()
  {
     // Thing2 does its thing
  }
}
```

And the following variable definitions:

```
Thing1 thing1;
Thing2 thing2;
Doable doable;
```

Indicate which are valid Java statements. Consider each statement executed sequentially in the order it appears.

- 1) Invalid Java statement Compiler Error
- 2) Valid Java statement No Compiler Error

<u>Hint</u>: What does the compiler know about any reference variable at compile time (vs. run time)?

```
thing2 = new Thing2();
thing2.speak();
thing2.doit();
thing2.speak( " Mine" );
String s2 = Thing2.SPEAK;
thing1 = new Thing1();
thing1.speak();
thing1.speak();
thing1.doit();
thing1.speak( " Mine" );
```

```
String s1 = Thing1.SPEAK;

doable = new Thing1();

doable.speak();

doable.doit();

doable = thing2;

doable.speak( " Mine" );

doable.doit();

thing2 = thing1;

thing2 = doable;

doable = new Doable();
```