Signature

**CSE 11** Name **Ouiz 3 Fall 2012** Student ID

cs11f

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

What gets printed when the following program is run?

```
public class While
{
  public static void main( String[] args )
    final int MAX = 5;
    int i = 3, j = -1;
    while ( i < MAX )
    {
      j = i;
      while ( j <= MAX )
      {
        --i;
        System.out.println( i + " " + j );
       j += 2;
      }
      i++;
    }
    System.out.println( i + " " + j );
  }
}
```



Trace the following program and specify its output.





An object which is defined to handle action events must implement the

interface and provide a body/implementation for the abstract method named

Given the following definitions:

public interface Speakable
{
 public abstract String speak();

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

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

And the following variable definitions:

```
Thing1 thing1;
Thing2 thing2;
Speakable speakable;
```

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

```
    Invalid Java statement – Compiler Error
    Valid Java statement – No Compiler Error
```

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

