Signature	<b>CSE 11</b>	Name
	Quiz 3	
cs11f	<b>Fall 2009</b>	Student ID

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

What is the output produced by this program? (Hint: Draw Stack Frames!)

```
public class Mystery
  public static void main( String[] args )
    Mystery ref = new Mystery();
    System.out.println( ref.mystery( 5 ) );
  private int mystery( int a )
    int b = a + 3;
    if (b >= 6)
      System.out.println( b );
     b = a + mystery(a - 1);
     System.out.println( a );
    }
    else
      System.out.println( "Whoa!" );
      System.out.println( a );
    return b;
}
```

## <u>Output</u>

## Given the following definitions:

```
public interface Speakable
{
   public String speak();
}
```

## And the following variable definitions:

```
private Puppy puppy;
private Kitty kitty;
private Speakable speakable;
```

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

- A) Invalid Java statement Compiler Error
- B) Valid Java statement No Compiler Error

kitty = new Kitty(); puppy = new Puppy(); puppy.speak(); puppy.wag(); puppy.sleep( 1000 ); kitty.speak(); kitty.wag(); kitty.sleep( 2000 ); speakable = kitty; speakable.speak(); speakable.wag(); speakable = puppy; speakable.speak(); speakable.sleep( 3000 ); puppy = kitty; speakable = new Speakable(); \_ <u>Hint</u>: What does the compiler know about any reference variable at compile time (vs. run time)?