<b>Signature</b>	

## CSE 8B Name

## Quiz 4

cs8b

Winter 2015 Student ID \_\_\_\_\_

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

Given the following definitions:

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

And the following variable definitions:

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

What gets printed with the following statements (each statement is executed in the order it appears). If there is a compile time error, write "Error".

```
puppy = new Puppy();
kitty = new Kitty();

speakable = kitty;

System.out.println( speakable.sleep( 10 ) );

System.out.println( speakable.speak() );

speakable = puppy;

System.out.println( speakable.wag() );

System.out.println( speakable.speak() );

System.out.println( puppy.wag() );

System.out.println( puppy.speak() );

System.out.println( kitty.sleep( 5 ) );

System.out.println( kitty.sleep( 5 ) );

System.out.println( kitty.speak() );
```

The keyword to inherit from an abstract class is \_\_\_\_\_\_

The keyword to inherit from an interface is		
In the statement	A	Center point of oval and x diameter and y diameter
new FilledOval( 30, 30, 100, 100, canvas );	В	Upper left corner and lower right corner of bounding box
the first 4 arguments represent	С	Center point of oval and width and height of bounding box
(write the letter representing your	D	Upper left corner and width and height of bounding box
answer in the blank above.)	E	Center point of oval and x radius and y radius
What is the output of this recursive method if it is help you answer this question.	is in	voked as ref.mystery( 11 );? Draw Stack Frames to
1 0		<u>Output</u>
<pre>int mystery( int a ) {   int b = a - 3;</pre>		
if ( b >= 5 ) {		
<pre>System.out.println( a + " " + b ) a = b - mystery( b + 1 );</pre>	;	
} else {		
<pre>System.out.println( "Stop" ); b = a + 2;</pre>		
}		
<pre>System.out.println( a + " " + b ); return a + b; }</pre>		
		ctors are to perform deep vs. shallow copies. Fill in the nt radius) { } constructor with deep copy. Remember to
public Circle( Point center, int radius	; )	<pre>public void setCenter( Point p ) { this.center = p; } public void setRadius( int r ) { this.radius = r; }</pre>
	//	Invoke superclass ctor with name of this shape
this.setRadius( radius );	//	Initialize radius member in this new Circle
inistes industry		Initialize center point in this new Circle
		·
}		
Fill in the blanks for the manning manner of man	J .	
· ·	_	you implemented in the previous programming assignment.
<pre>public void reverse( int[] array, int l if (</pre>		
if ( == nul return;	.1 )	
if ( >- 1 )	r	// norform over and recursive call
if ( >= 1 )	ί	// herrorm swah ann rechrette catt
<pre>int tmp = array[low];</pre>		
array[low] =		;

\_\_\_\_\_);

reverse( array, \_\_\_\_\_,

```
}
public class WordPair implements Comparable{
 private String word;
 private int count;
 public WordPair(String s, int c) {
   this.word = new String(s);
   this.count = c;
 }
 // return 0 if objects are equal
 // return > 0 if calling object is greater than parameter
 // return < 1 if calling object is lesser than parameter
 public int compareTo(Object o) {
   WordPair other = o;
   if( _____) {
     return _____;
   else {
   }
 public static void main (String [] args) {
                                                   Output of main
   WordPair small = new WordPair( "Hi" , 10 );
                                                   -10
   WordPair small2 = new WordPair( "Hi", 10 );
                                                   10
   WordPair big = new WordPair( "Hi", 20 );
                                                   -17
   WordPair smallSmall = new WordPair( "Yo", 10 );
                                                   0
   System.out.println( small.compareTo( big ) );
   System.out.println( big.compareTo( small ) );
   System.out.println( small.compareTo( smallSmall )
   System.out.println( small.compareTo( small2 ) );
 }
}
```