This quiz is to be taken by yourself with closed books, closed notes, no electronic devices.

How many times does the body of this loop execute? ________

```java
for (int i = 10; i >= 0; --i)
{
    System.out.println( "CSE8A Rocks! " + i );
}
```

With regards to the loop above, what is the last value of i that is printed? ________

The following method mirrors a Picture vertically left to right. this is a Picture that we are applying the mirroring.

```java
public void mirrorVertically()
{
    int mirrorPoint = this.getWidth() / 2;
    Pixel leftPixel = null;
    Pixel rightPixel = null;
    Pixel mirrorPixel = null;

    for (int y = 0; y < this.getHeight(); ++y)
    {
        for (int x = 0; x < mirrorPoint; ++x)
        {
            leftPixel = this.getPixel( x, y );
            rightPixel = this.getPixel( this.getWidth() - 1 - x, y );
            mirrorPixel = this.getPixel( mirrorPoint, y );
            /* MISSING LINE */
        }
    }
}
```

Which missing line of code will correctly mirror this Picture vertically left to right? ________

A) rightPixel.setColor( leftPixel.getColor() );  
B) leftPixel.setColor( rightPixel.getColor() );  
C) rightPixel.setColor( mirrorPixel.getColor() );  
D) leftPixel.setColor( mirrorPixel.getColor() );  
E) mirrorPixel.setColor( leftPixel.getColor() );  
F) mirrorPixel.setColor( rightPixel.getColor() );

If this is the method header for a method definition

```java
public int foo( int x, String s ) { /* Method body */ }
```

Which of the following would be a correct way to use this method? ________

A) foo( 42, "A" );  
B) double odds = foo( 42.420, "A" );  
C) Integer odds = foo( 42, "A" );  
D) int odds = foo( 420, "A" );  
E) Double odds = foo( 420, "A" );
Which is the correct if statement to make this code change the top half of a Picture to black? ______

```java
public void paintItBlack() {
    Pixel pixel = null;
    for (int y = 0; y < this.getHeight(); y++) {
        for (int x = 0; x < this.getWidth(); x++) {
            /* MISSING IF STATEMENT */
            pixel = this.getPixel( x, y );
            pixel.setColor( Color.BLACK );
        }
    }
}
```

A) if ( x < this.getHeight() / 2 )
B) if ( y < this.getHeight() / 2 )
C) if ( x < this.getWidth() / 2 )
D) if ( y < this.getWidth() / 2 )

What gets printed by the following code? ______

```java
int x = 10;
if ( x > 7 ) {
    x += 3;  // Same as x = x + 3;
} else if ( x >= 13 ) {
    x += 6;
} System.out.println( x );
```

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```

Method overloading allows for more than one method with the same _________ as long as the _________ are different.

Trace the following program and specify its output.

```java
public class Trace {
    public static void main( String[] args ) {
        System.out.println( "main" );
        foo1();
        System.out.println( "main" );
        foo2();
        System.out.println( "main" );
    }

    public static void foo2() {
        foo3();
        System.out.println( "foo2" );
    }

    public static void foo1() {
        System.out.println( "foo1" );
        foo2();
    }

    public static void foo3() {
        System.out.println( "foo3" );
    }
}
```