Signature	CSE 11	Name
	Quiz 5	
cs11f	Fall 2010	Student ID

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

Given the following partial class definition for Point, fill in the blanks to complete the class definition:

```
public class Point
{
  private int x;
  private int y;

  public Point( int x, int y )
  {
    setX( x );
    setY( y );
  }

  public int getX()
  {
    ______;
  }

  public void setX( int x )
  {
    ______;
  }

  public void setY( int y )
  {
    ______;
  }
}
```

Given the following expressions, indicate whether the expressions evaluate to true or false.

Assume you are given the array definition below and the array is properly initialized:

```
Point[] points = new Point[42];
// Assume array points is properly and fully initialized here
```

Without using any extra variables other than the variable **points**, write the single Java statement to change the <u>last</u> Point's y value to be the same value as the <u>first</u> Point's x value. Do not use any magic numbers or integer constants other than 0 or -1.

If we tried to access points[42], what Runtime exception would be thrown?

Given the following class definitions for class Foo, class Fubar, and class FubarTest:

```
public class Foo
{
   public Foo()
   {
     System.out.println( "Foo ctor #1" );
   }

   public Foo( int x, int y )
   {
     this();
     System.out.println( "Foo ctor #2" );
   }

   public String toString()
   {
     System.out.println( "Foo.toString" );
     return "Foo.toString";
   }
}
```

```
public class FubarTest
{
   public static void main( String[] args )
   {
     Foo ref = new Fubar( 42, 420 );
     System.out.println( "-----" );
     System.out.println( ref.toString() );
   }
}
```

What is the output when we run FubarTest as in **java FubarTest**

```
Given the following class definition:
```

```
public class Quiz5
{
   private int q5 = 420;
}
```

Write the equivalent class definition explicitly showing everything the Java compiler implicitly inserts by default. Underline the parts the Java compiler will automatically include as it compiles into bytecode.