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\* Class:ThirteenPoinThree Ex13.3 Pg.??? Author: Yin Linhai

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\* A square class that inherits the rectangle, and a tester.

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\* School:Sir Winston Churchill High School, Calgary, Alberta, Canada

\* Language: Java SE 7.0Target Operating System: Java Virtual Machine

\* System:Intel Celeron 3GHz running under Windows 7 IDE: Eclipse 4.2

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**Square Class**

**package** thirteenPoinThree;

**import** java.awt.Rectangle;

**public** **class** Square **extends** Rectangle {

//constructor

**public** Square (**int** x, **int** y, **int** length) {

//run superclass instructor

**super**();

//set dimensions, and location

**super**.setLocation(x, y);

**super**.setSize(length, length);

}

//method to get area

**public** **int** getArea() {

**int** a = **super**.height\***super**.height;

**return** a;

}

}

**Tester class**

**package** thirteenPoinThree;

**import** java.util.Scanner;

**public** **class** Tester {

**public** **static** **void** main(String[] args) {

Scanner scan = **new** Scanner(System.*in*);

System.*out*.println("Where is the center of the square?");

System.*out*.println("(x y)");

**int** x = scan.nextInt();

**int** y = scan.nextInt();

System.*out*.println("What is the side length of the square?");

**int** side = scan.nextInt();

Square sqr = **new** Square(x,y,side);

System.*out*.println(sqr.toString());

System.*out*.println(sqr.getArea());

}

}

**Output**Where is the center of the square?

(x y)

1 2

What is the side length of the square?

5

thirteenPoinThree.Square[x=1,y=2,width=5,height=5]

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