Exercise 9.2. 1. For the following program, draw a stack diagram show- ing the state of the program just before distance returns. Include all variables and parameters and the objects those variables refer to.

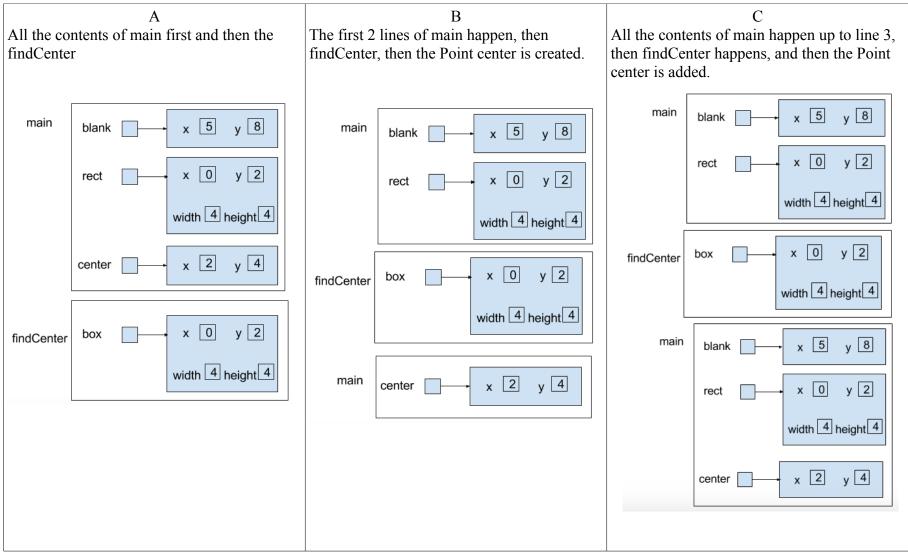
2. What is the output of this program? 5

```
public static double distance(Point p1, Point p2) {
    int dx = p1.x - p2.x;
    int dy = p1.y - p2.y;
    return Math.sqrt(dx*dx + dy*dy);
}

public static Point findCenter(Rectangle box) {
    int x = box.x + box.width/2;
    int y = box.y + box.height/2;
    return new Point(x, y);
}

public static void main(String[] args) {
    Point blank = new Point(5, 8);
    Rectangle rect = new Rectangle(0, 2, 4, 4);
    Point center = findCenter(rect);
    double dist = distance(center, blank);
    System.out.println(dist);
}
```

Which one is the answer for (1)?



What terms do you use to explain this?