

```

/**
 * Write a description of class programChallengeHw1 here.
 * We are making a 400 by 400 like a black and white checkered board
 *
 * @author (Vincent)
 * @version (a version number or a date)
 */
public class programChallengeHw1
{
    public static void main (String[] args)
    {
        /**
         * Approach: Draw white screen, make two black squares bottom right and top left
         * Overlap top left half with two small white squares
         * Add two small black squares on the bottom left
         *
         */
        // Set new screen
        Draw scr = new Draw();

        // Set the whole screen to white
        scr.clear(Draw.WHITE);

        // Set the parameters of the screen size
        scr.setXscale(0, 400);
        scr.setYscale(400, 0);

        // Big Black Square top left
        scr.setPenColor(Draw.BLACK);
        scr.filledSquare(325, 325, 125);

        // Big Black Square middle
        scr.filledSquare(100, 100, 100);

        // Small White Squares top left (Overlaps top left square)
        scr.setPenColor(Draw.WHITE);
        scr.filledSquare(50, 50, 50);
        scr.filledSquare(50, 150, 50);

        // Small Black Squares bottom left
        scr.setPenColor(Draw.BLACK);
        scr.filledSquare(50, 250, 50);
        scr.filledSquare(50, 350, 50);
    }
}

```

```
public static void bonusProgram()
{
    // Set new Screen and Title
    Draw scr = new Draw();
    scr.setTitle("The Flag of France by Vincent");
    scr.clear(Draw.GRAY);
    // Set size of Screen
    scr.setXscale(0, 400);
    scr.setYscale(400, 0);

    // Set name on left Side
    String myName = "Vincent";
    scr.text(25, 200, myName);

    // Flag Pole
    scr.setPenColor(Draw.BLACK);
    scr.setPenRadius(.025);
    scr.line(100, 100, 100, 400);

    // Top of Pole
    scr.setPenColor(Draw.BLACK);
    scr.filledCircle(100, 85, 25);

    // Flag of France
    scr.setPenColor(Draw.BLUE);
    scr.filledRectangle(140, 175, 35, 65);
    scr.setPenColor(Draw.WHITE);
    scr.filledRectangle(210, 175, 35, 65);
    scr.setPenColor(Draw.RED);
    scr.filledRectangle(280, 175, 35, 65);
}
```

