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package stackoverflow;

import java.awt.Color;
import java.awt.image.BufferedImage;
import java.io.File;
import java.io.IOException;
import javax.imageio.ImageIO;

// Demonstrate reading a PNG image, grabbing a pixel, and printing its color
// @author Rainbolt
public class StackOverflow {

    // Given the path of a red, black, and white image, output the color of a
    // single pixel.
    // @param args The image file path, an x coordinate, an a y coordinate
    // @throws IOException If the file can't be opened
    public static void main(String[] args) throws IOException {

        BufferedImage image = ImageIO.read(new File(args[0]));

        // Buffered images use a different coordinate system that we do
        int x = Integer.parseInt(args[1]);
        int adjustedY = image.getHeight() - Integer.parseInt(args[2]);

        Color pixel = new Color(image.getRGB(x, adjustedY));

        if(pixel.getRed() == 255) {
            if(pixel.getBlue() == 255) {
                System.out.println("The selected pixel was white.");
            } else {
                System.out.println("The selected pixel was red.");
            }
        } else {
            System.out.println("The selected pixel was black.");
        }
    }
}

```