Programowanie w języku JAVA Laboratorium 3 Marcin Godfryd Grupa 31

Color.java

```
record Color(int red, int green, int blue, int alpha) implements
Comparable<Color> {
    public Color {
        if (red < 0 || red > 255 || green < 0 || green > 255 || blue < 0 ||
        blue > 255 || alpha < 0 || alpha > 255) {
            throw new IllegalArgumentException("Wartości kolorów muszą być
w zakresie 0 - 255");
        }
    }
    Color(int red, int green, int blue) {
        this(red, green, blue, 0);
    }
    @Override
    public int compareTo(Color other) {
            double thisLuminance = 0.2126 * this.red + 0.7152 * this.green +
0.0722 * this.blue;
            double otherLuminance = 0.2126 * other.red + 0.7152 * other.green +
0.0722 * other.blue;
            return Double.compare(thisLuminance, otherLuminance);
    }
}
```

Main.java