

Please read the source code and try to understand what it does (3s)

```
1 public Paint getPaint(double value) {
2     double v = Math.max(value, this.lowerBound);
3     v = Math.min(v, this.upperBound);
4     int g = (int) ((value - this.lowerBound) / (this.upperBound
5         - this.lowerBound) * 255.0);
6     return new Color(g, g, g);
7 }
```

(25s)

How well do you think you understand the code? (3s)

However, the code is failing (3s)

Failure Message:

java.lang.IllegalArgumentException: Color parameter outside of
expected range: Red Green Blue

Test:

```
GrayPaintScale gps = new GrayPaintScale();
c = (Color) gps.getPaint(-0.5);
assertTrue(c.equals(Color.black));
```

(20s)

We will ask you questions about this failure (3s)

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Do you think the highlighted code causes the failure? (20s)

How confident are you? (3s)

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