

Debugging Fun Sensor2 Solution

Scenario: Pablo wrote the following code for his Human Sensor Project. He wants each possible sensor value to call one of the four light pattern functions:

Actual Buggy Code Behavior:

Everything works except nothing runs if the sensorValue is in the range ≥ 600 AND < 800

Misconceptions: Ranges. He didn't program his ranges for every possible value of sensorValue.

Solution:

```
loop() {  
  sensorValue = analogRead(sensor);  
  if (sensorValue >= 900) {  
    lightPattern1();  
  }  
  if (sensorValue >= 700 && sensorValue < 900) {  
    lightPattern2();  
  }  
  if (sensorValue >= 500 && sensorValue < 700) {  
    lightPattern3();  
  }  
  if (sensorValue < 500) {  
    lightPattern4();  
  }  
}
```

Notes: Solutions may vary. This is one possible way to fix it.