

Sensing

Line Tracking Quiz

NAME _____ DATE _____

1. Why can nested loops cause a problem in a program?

2. List two ways in which the "Line Tracking (Rotation)" program improves upon the "Line Tracking (Basic)" program. Explain why they are actually improvements.

3. Answer the questions about the following segment of code:

```
1  if(SensorValue(lightSensor) > 45)
2  {
3      motor[motorC] = 75;
4  }
5  else
6  {
7      motor[motorB] = -75;
8  }
```

a. What will the robot do if the light sensor reads a value of 64?

a. What if it reads a value of 45?