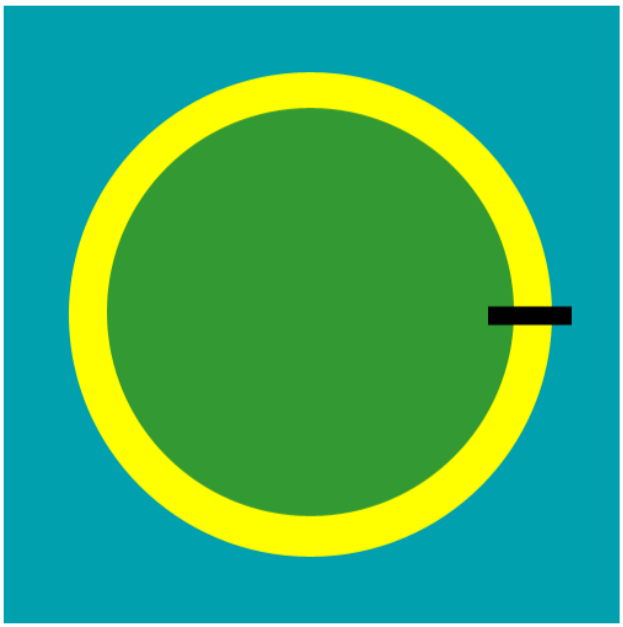
Create a robot which will move only on Yellow path in given image.



CODE:

```
import ch.aplu.robotsim.Gear;
import ch.aplu.robotsim.LegoRobot;
import ch.aplu.robotsim.LightSensor;
import ch.aplu.robotsim.RobotContext;
import ch.aplu.robotsim.SensorPort;

public class RobotPathFollowerMiniProject {
  static {
    RobotContext.useBackground("sprites/yellowpath.gif");
    RobotContext.setStartPosition(430,230);
    RobotContext.setStartDirection(-90);
  }

  public RobotPathFollowerMiniProject () {
    // Initialize required components and add them
    // to the robot.
    LegoRobot legoRobot = new LegoRobot();
    Gear gear = new Gear();

    LightSensor lightSensorL = new LightSensor(SensorPort.S2);
```

```
    LightSensor lightSensorR = new LightSensor(SensorPort.S1);
    LightSensor lightSensorM = new LightSensor(SensorPort.S3);

    legoRobot.addPart(gear);
    legoRobot.addPart(lightSensorL);
    legoRobot.addPart(lightSensorR);
    legoRobot.addPart(lightSensorM);

    gear.forward();
    gear.setSpeed(100);

    double arcLength = 0.1;

    while (true) {

      int lightSensorDiff = lightSensorR.getValue() - lightSensorL.getValue();

      if (lightSensorM.getValue() < 100) {
        gear.stop();
      }

      else if (lightSensorDiff > 100)
      {
        gear.rightArc(arcLength);
      }
      else if (lightSensorDiff < -100)
      {
        gear.leftArc(arcLength);
      }
      else {
        if (lightSensorR.getValue() > 500)
        {
          gear.forward();
        }
      }
    }
  }
```

```
    public static void main(String[] args) {
        new RobotPathFollowerMiniProject ();
    }
}
```