CURIE Academy 2010
Light the Way

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Challenge

Program iRobot to sense and respond to light.
Flow Chart of Commands

Initialize

Read Sensors

Sensor 1 > Sensor 2: Turn toward Sensor1 and move
If Sensor1 = Sensor2: Go Straight
If Sensor1 < Sensor2: Turn toward Sensor2 and move

Repeat Loop?

No
Yes
Problems and Solutions

**Problem:** We had to follow robot, instead of robot following light.

**Solution:** Change values of turn angles so that robot turned in direction of the light.

**Problem:** Getting the robot to stop.

**Solution:** Program robot to stop when wheels drop.
Problems and Solutions (Cont.)

Problem: Program robot to respond to light sensors in each lit and unlit rooms.

Solution: Program robot to compare light values of light sensor 1 and light sensor 2, and respond to the greater value.

Problem: Programming robot to continue reacting to light sensors.

Solution: Program a while loop, so robot responds as long as there's light.
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