

Quick Track 1

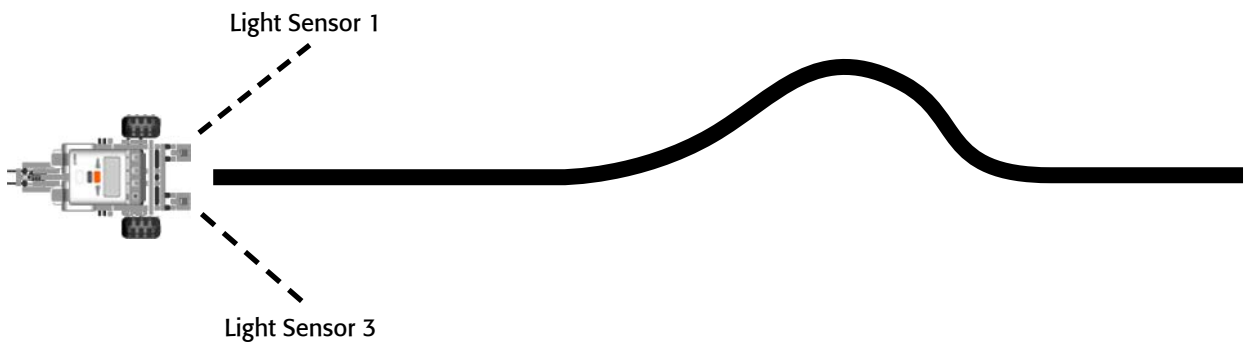


Challenge

Program the robot below. It has two Light Sensors.
Connect one Light Sensor to port 1 and the other Light Sensor to port 3.

Rules

1. Track the black line for 5 seconds using two sensors.
Hint: Both sensors should see white if it is tracking the line.



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1. Place your pseudocode here. If you need more room, use the back of this paper.
 2. Draw your flowchart on the back of this paper.

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Quick Track 2

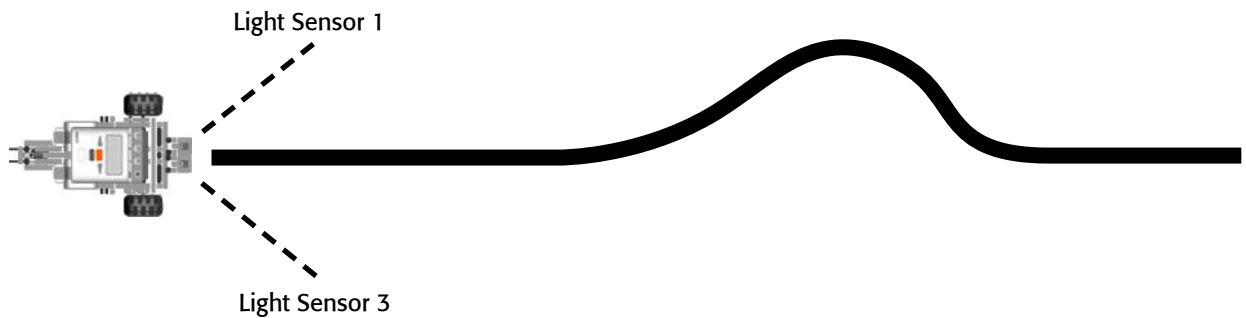


Challenge

Program the robot below. It has two Light Sensors.
Connect one Light Sensor to port 1 and the other Light Sensor to port 2.

Rules

1. Track the black line for 5 seconds using two sensors.
Hint: Both sensors should see black if it is tracking the line.



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Variables 2

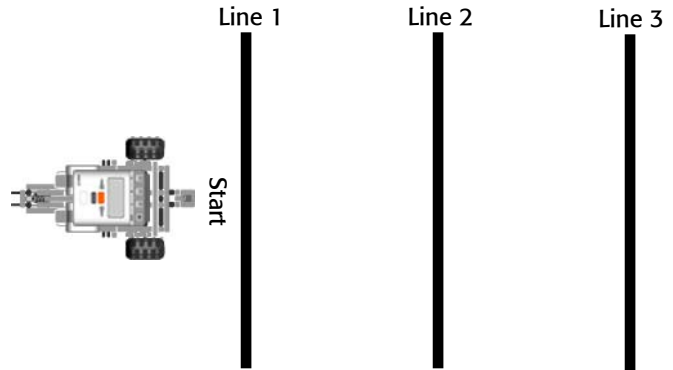


Challenge

Program this robot using an internal Rotation Sensor, a Light Sensor, and Variables.
The Light Sensor is connected to port 2.

Rules

1. The robot must start behind the first line.
2. The robot must move past the first line, stop at the second line, and return to start.
3. Then the robot must move past the first two lines, stop at the third, and return to start.



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A-Mazing Variables



Challenge

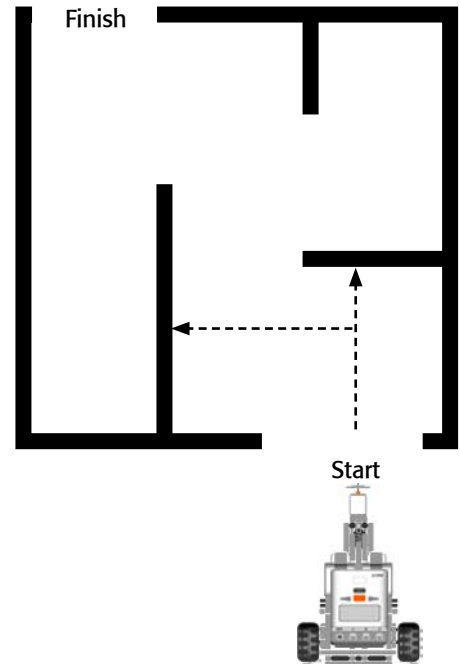
Program a robot that uses a Touch Sensor to count the number of walls it hits.

Rules

1. The robot must start at start.
2. The robot must store a value in a Variable every time it hits a wall.
3. The robot must end at finish.
4. After completing the maze the robot must beep the number that is in its Variable.

Notes

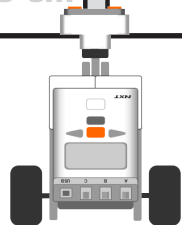
- The user may substitute a Light Sensor for the Touch Sensor and attempt to complete the course with black tape as the walls.
- The course displayed at right is for example only. The user may modify the course as they see fit.



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