

② The Roach

Description

Robot goes forward until it encounters a bright light, then turns away and goes until it finds darkness, and then stops.

Learning Goals

Control: program name
Ports & modifiers

Input: light sensor

Output: speeds
turning
sounds without waiting

Interaction: wait for sensor value (condition)

Configuration

Port 1:
Port 2: light sensor
Port 3:
Port 4:
Port A: motor
Port B: lamp
Port C: motor



Variations

- A** Go forward until encountering a bright light, then stop
- B** Spin around from light and run away from it for 2 seconds
- C** Wait for dark before starting, speed up when retreating, stop when a dark spot is reached

Challenges

- Experiment with different kinds of turning movements
- Modify the criteria for light conditions (light vs. dark, intensity values)