

Introduction to Programming LEGO® MINDSTORM® EV3

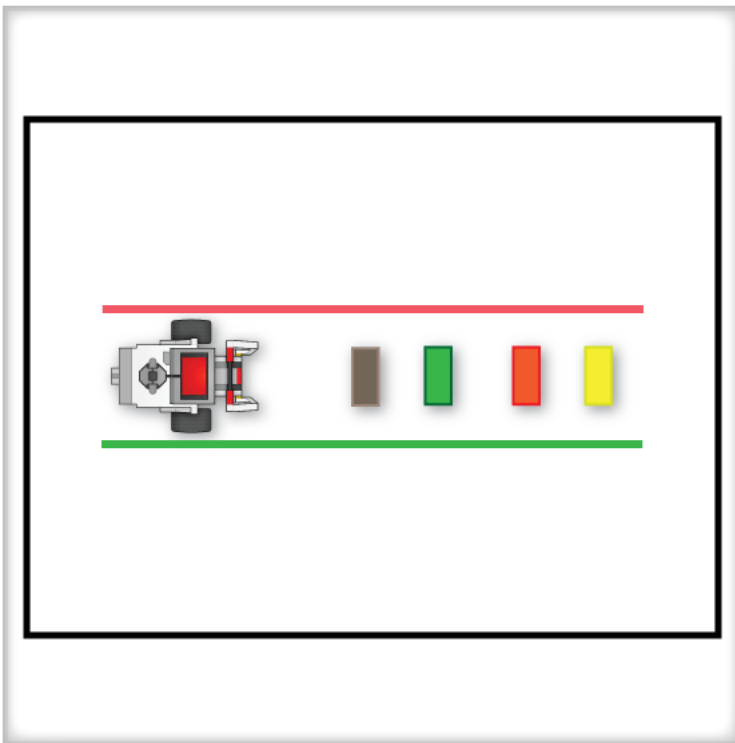


CHAPTER CHALLENGE

CHAPTER 8: Strawberry Plant Challenge

In this Challenge, you will use a combination of both Loops and Switches to repeat an inspection process on a total of four plants, represented as boxes. The robot will move to a plant, then sort it to either the robot's right side if it is good, or the robot's left if it is bad.

Rules and Procedures:



- Use four rectangular objects to represent the plants. These can be built with LEGO parts, or cut from cardboard boxes.
- The objects must be placed in a straight line, with at least 5 centimeters' space between them.
- The objects should be a random mix of "good" and "bad" plants, and placed in a random order for each run.
- Green or brown plants are considered "good".
- Red, black, or yellow plants are considered "bad".
- The robot must correctly sort all plants in a run to complete the Challenge.

Hints:

- Use a Switch to conduct individual inspections.
- Use a Loop to repeat the inspection process.
- According to the rules, when should the robot stop inspecting?