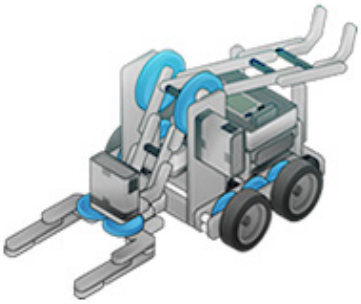


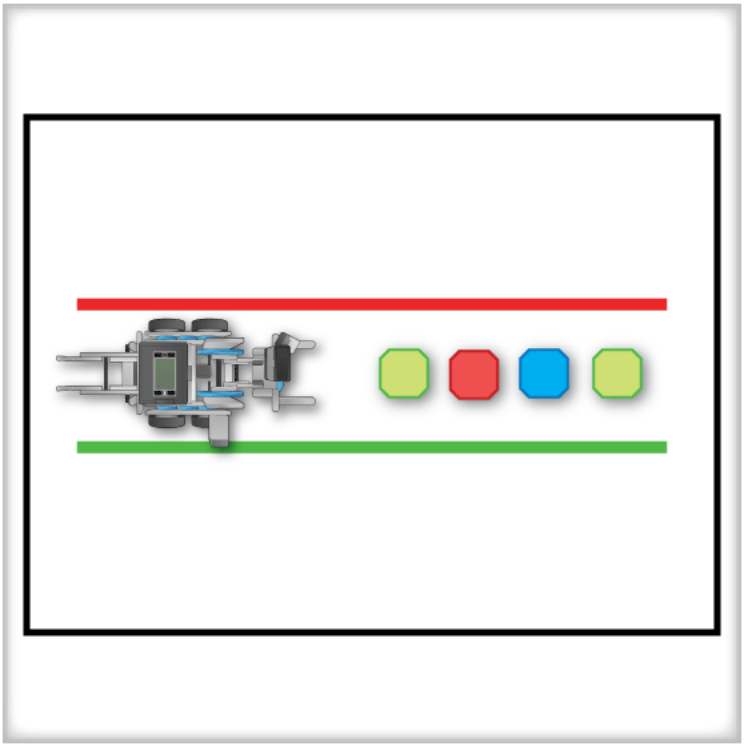
Introduction to Programming

VEX IQ®

CHAPTER 8: Strawberry Sorter Challenge

In this challenge, you will use a combination of Loops and If/Else conditional blocks to repeat an inspection process on a total of four plants, represented with 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 objects (rectangular or official VEX game parts) to represent the plants.
- The objects must be placed in a straight line, with at least 5 centimeter 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 plants are considered "good."
- All other color plants are considered "bad."
- The robot must correctly sort all plants in a run to complete the Challenge.

Hints:

- Use an If/Else conditonal block to conduct individual inspections.
- Use the ROBOTC Sensors debugger window to see what the color sensor is reading. Remember, the color sensor is very sensitive to ambient light. To get to the Sensors debugger window, download your program, go to Robot > Debugger Windows > Sensors.