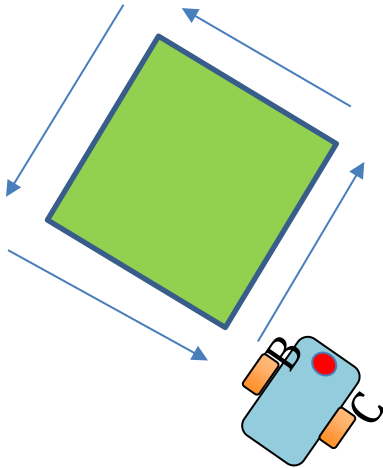# Worksheet: Turning Challenge

CHALLENGE 1: Your robot is a baseball player. Program the robot to go around the baseball diamond.

What should you do?

- Read pseudocode for the program
- Program the code
- Test it out

Pseudocode uses english to describe the detailed steps that your robot should perform. The pseudocode for this challenge is below.
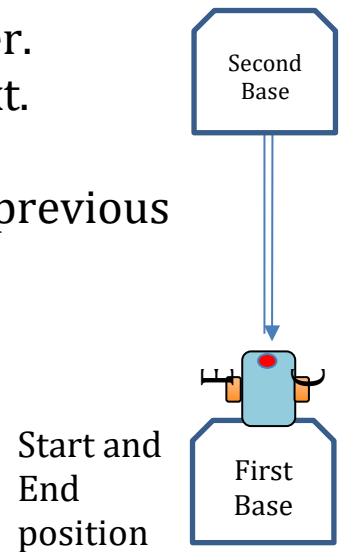
    Step 1: Move forward 10 inches
    Step 2: Turn left 90 degrees
    Step 3: Move forward 10 inches
    Step 4: Turn left 90 degrees
    Step 5: Move forward 10 inches
    Step 6: Turn left 90 degrees
    Step 7: Move forward 10 inches

Pseudocode gives you a good start towards writing the code for your program.

Did your code work?

Did you use port view?

CHALLENGE 2: Your robot is a baseball player. The robot has to run from one base to the next. Oh no! He's going to be tagged out. So he has to turn around and run back to the previous base!

Second Base

Start and End position

First Base

What should you do?

- Write pseudocode for the program
- Program the code
- Test it out

Pseudocode:

What type of turn did you use? Make sure you test both PIVOT and SPIN turns.

What type of turn gets you back to the base? (As close as possible)