

## Challenge

# Auto Attendance

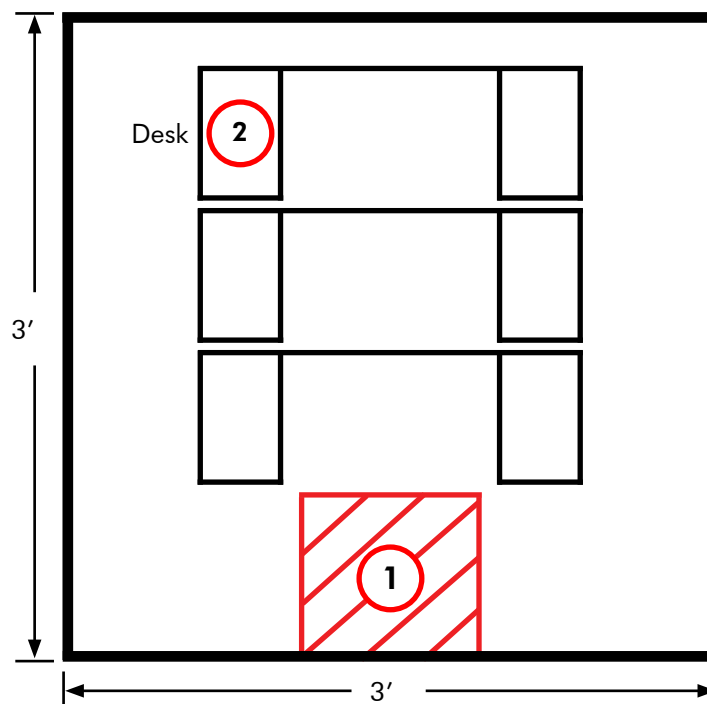
## Challenge Description

Build and program a robot which can take attendance in a classroom. It needs to move to each row of desks, marked with a line of tape, sense if a student (book) is in a seat to the left and right of the robot, and then store the number of students present in a variable. At the end of each row, it should display its count on the LCD screen.

## Materials Needed

- Black electrical tape
- Red electrical tape
- 6 (or less) books
- Ruler (or straight edge)
- Scissors (or cutting tool)

## Board Specifications



*Note: Diagrams are not drawn to scale*

- 1** Robot must begin from this start location and return after traveling to each line.
- 2** To make a "student" present in class, place a book thier desk.