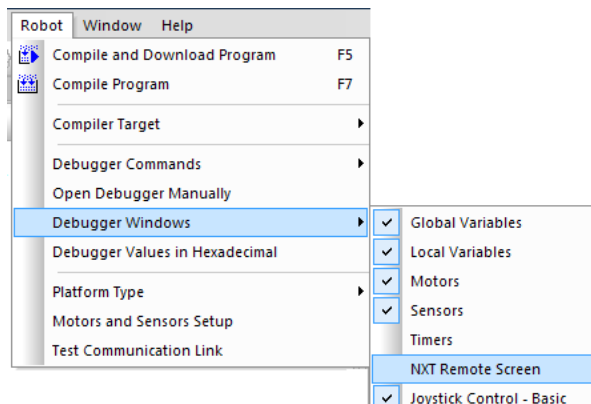**Challenge**

Auto Attendance

Challenge Description

To complete this challenge, program the robot to take attendance in a classroom. The robot should 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, the robot should display the number of students on the LCD screen, which can be viewed on the computer through the use of the NXT Remote Screen.

The number and position of students in attendance is randomly generated every time the challenge is reset.

Using the NXT Remote Screen

The NXT Remote Screen is a representation of the physical NXT screen. Any commands that cause the NXT screen to display something will also work with the NXT Remote Screen.

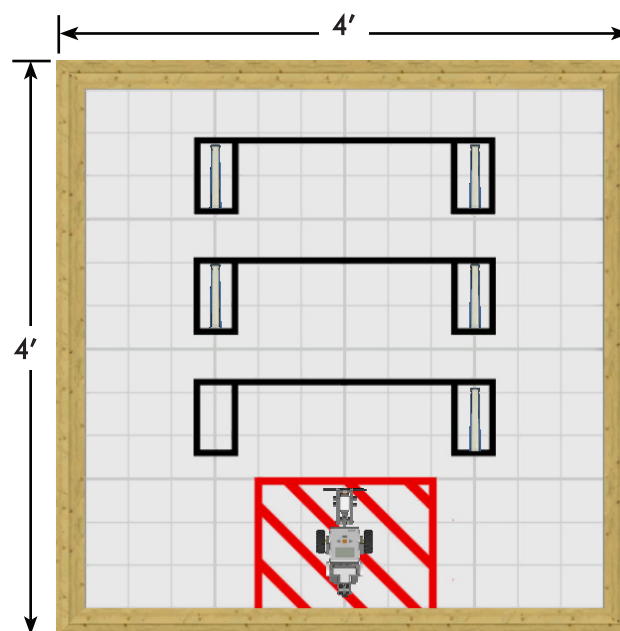To open the remote screen, click on **Robot -> Debugger Windows -> NXT Remote Screen**

The remote screen will open up in a new window. From there, you can view the NXT Remote Screen at any time.

Challenge

Board Specifications

MINDSTORMS

4'

4'

TETRIX

6'

6'

Auto Attendance Challenge