

# SENSING

## Obstacle Course Challenge

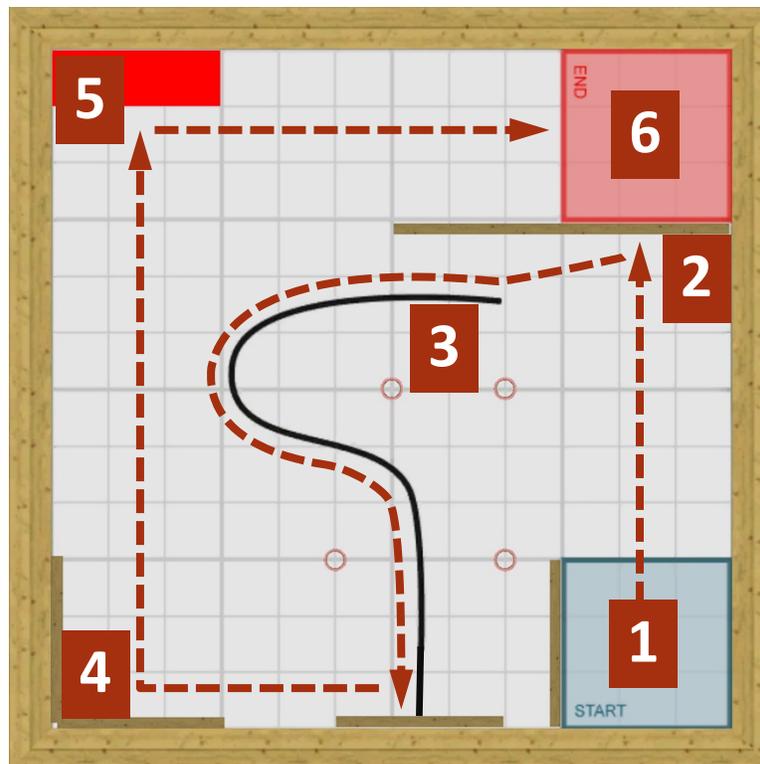
### Challenge Description

In this challenge, the robot needs to navigate an obstacle course while using its sensors. The robot must begin in the starting area, touch a wall, line follow, detect when it comes close to an object, recognize the red color line and turn right, and then finish in the goal area.

### Materials Needed

- Black electrical tape
- Red electrical tape
- Ruler (or straight edge)
- Scissors (or cutting tool)
- 4 Styrofoam cups
- Tall objects, such as books or binders, to serve as the adjustable walls

### Board Specifications



1

Starting area

2

Touch the box

3

Follow the line and avoid obstacles until touch

4

Avoid the walls

5

Make a right turn

6

End in goal area