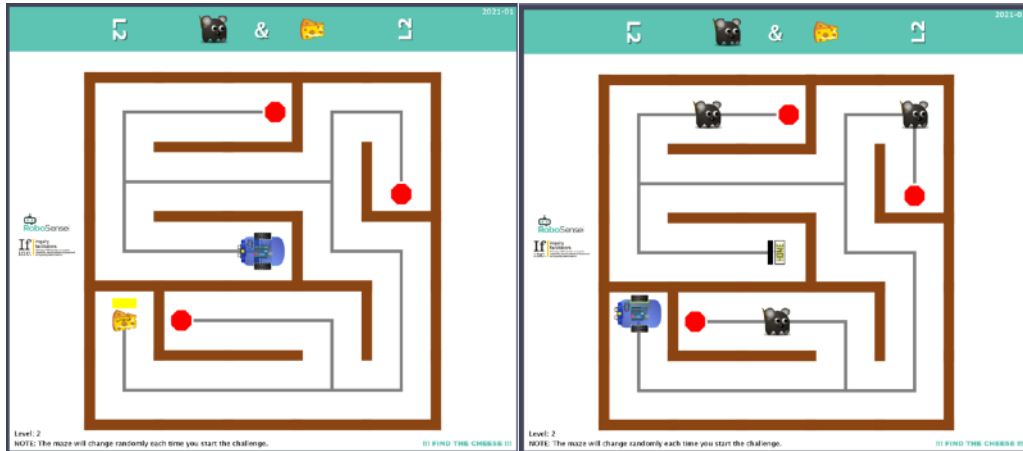


Mouse & Cheese Challenge

v1



Challenge:

Code for the robot to autonomously navigate through the **maze**, pick up the **cheese** and return to **home**. While returning home, the robot has to follow the shortest path to home to avoid negative points by running into a mouse.

Points:

100 points are awarded when the robot returns **home** after picking up the **cheese**.
Negative 25 points each time the robot runs into a mouse.

Challenge Time and Bonus points:

Each second remaining from the total challenge time will become bonus points.

Additional requirements:

Every time you run your code, the track will change. Players may be required to demonstrate the ability of their robot to navigate multiple tracks using the same code for verification.

Track description:

Track consists of walls detectable by distance and/or bump sensor.

Line, **line ends** (red hexagon), **cheese** and **home** are detectable by IR sensor.