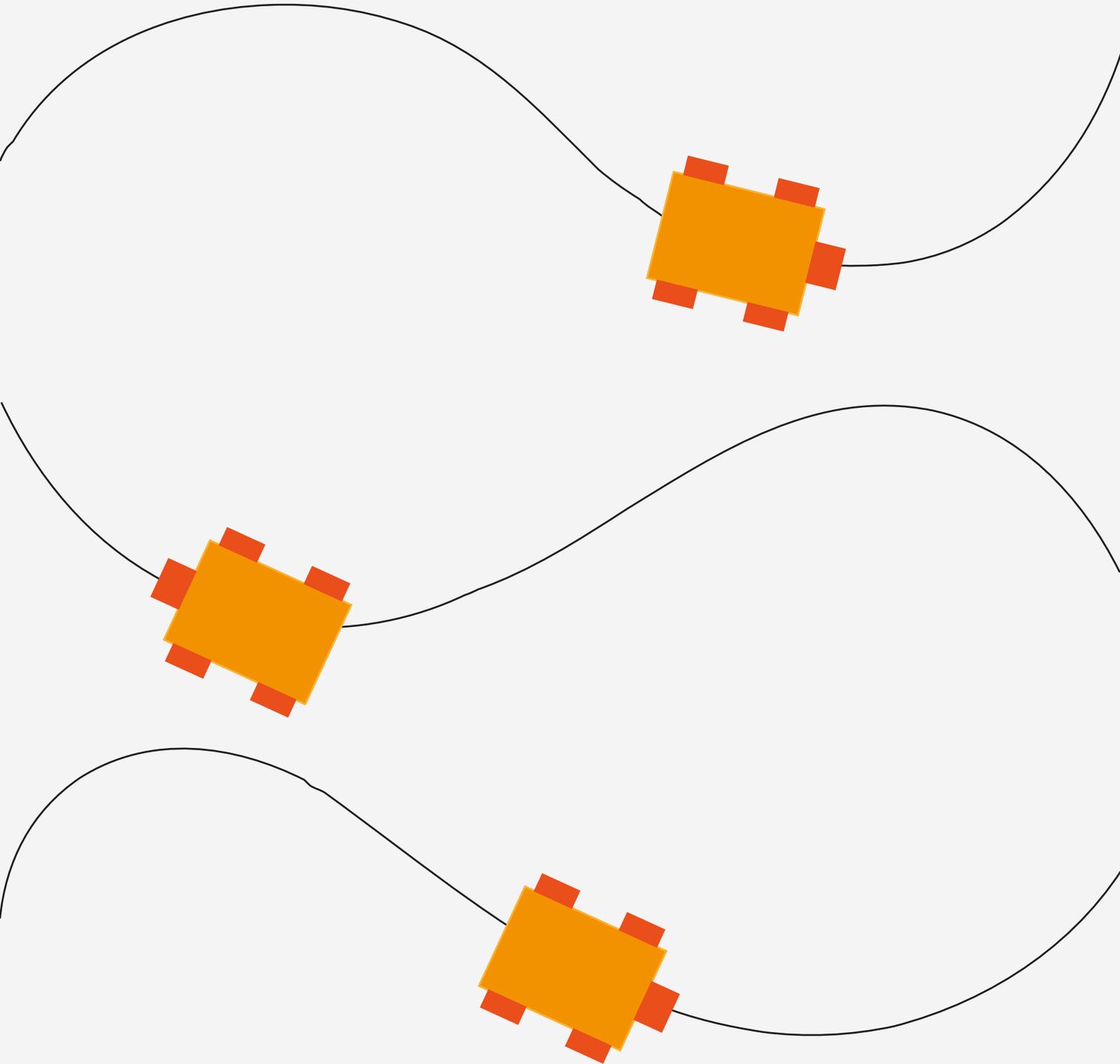


LINE FOLLOWING





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Line Follower Category Rules

Task Definition

1. In this category, robots try to reach the finish line by following the lines on the track starting from the starting point.

Success Criteria

2. The success criterion in this category is the robot's ability to reach the finish line.

Robot Specifications

3. The width of the robot must not exceed 20 cm, its length must not exceed 30 cm, and its height must not exceed 25 cm.
4. The length of the robot is defined as the dimension in the direction of travel, and the width is the dimension perpendicular to the direction of travel.
5. There is no weight limitation for the robot.
6. The robot must be autonomous and cannot be controlled externally.

Track Specifications

7. The track is made by drawing a line on a white-colored tarpaulin.
8. The path the robot must follow consists of a black line on a white surface or a white line on a black surface. The robot must follow the line.
9. The track is 4 meters wide and 2.8 meters long.
10. The line on the path to be followed is 18 mm thick.
11. It is forbidden for competitors to step on the track except for designated areas.
12. Figure 1 shows the track prepared for this category.

Competition

13. Each robot competes one at a time.
14. When it is their turn, the competitor takes their robot from the referee's table and places it behind the control point in the starting area.



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the starting point.

- 🐜 21. The time stops when the robot crosses the finish line.

Scoring

- 🐜 22. Ranking is based on completion time, from shortest to longest.
- 🐜 23. Robots that fail to complete the track are eliminated and not evaluated.
- 🐜 24. Each competitor has 4 foul chances. A 5th foul results in elimination.