



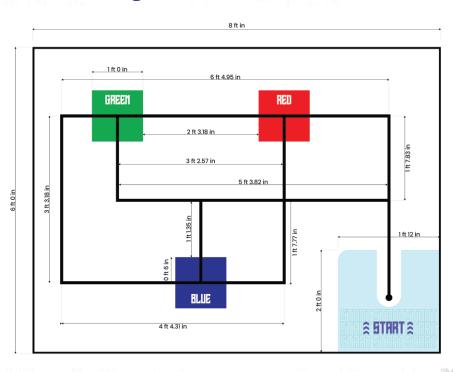


# **CODING QUEST**

(Senior Category)

- Participants must pre-program their bot before the challenge begins.
- The bot's task is to collect cubes from designated color zones and deliver them to their matching color zones.
- The bot must operate fully autonomously, with no manual control allowed during the challenge.
- Once started, the bot should navigate the entire arena and complete the task on its own.
- The challenge must be completed within 10 minutes.

# **Arena mat Design:**





## **How to practice:**

First, use the provided tape to mark the arena according to the given sizes. (Check the arena mat design above.)

Put every cube into a mismatched color box.

#### **Example:**

Case 1: Red cube is in Blue box.

Case 2: ■ Blue cube is in ■ Green box.

Case 3: Green cube is in Red box.

#### Your robot should:

- 1. Pick the red cube → place it in the red box
- 2. Pick the blue cube → place it in the blue box.
- 3. Pick the green cube → place it in the green box.

### Tips:

- Use a stopwatch while practicing
- You can program your robot using the Arduino IDE.
- Make sure your robot is fully ready before the event day.

#### Note:

All required arena elements will be provided in the kit, and you will have the same elements on the day of the event.

## **Rules & Regulations:**



During the final match, you are not allowed to change your robot's code once it enters the arena.



The robot must start from the designated starting point in the arena. Each team may have up to 4 members (excluding mentors). Only one mentor is allowed per team.



Limited teams can participate in this challenge.



Scoring:

5 points will be awarded for each cube completely removed from a different-colored zone.

10 points will be awarded for each cube placed correctly in its matching colored zone.



Final Score = Points for all cubes picked up + Points for all cubes placed correctly.



The challenge has a maximum time limit of 10 minutes.