

Collect the Cans

The challenge: Two teams try to return as many empty soda cans as possible to their side of the ring (marked by a yellow line) in 2 minutes or as soon as all soda cans are removed from the playing field. The playing field is a square approximately 5' x 5'.

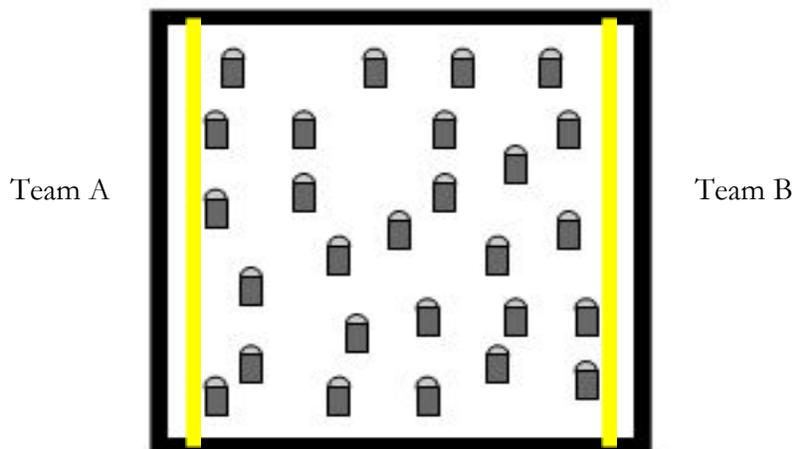
Time limit: Must complete the task within 2 minutes for each round. There will be three rounds in all.

How to recreate a practice course:

Course: square playing field of approximately 5'x 5'

Black Line Border: 1.5 inches

Obstacles: 27 empty soda cans wrapped in black masking tape will be placed within the rectangle. Each can will be randomly placed a minimum of 5" apart from each other.



How it works:

Two players, one from each team are positioned on opposite sides of the playing field with their robot. When the game starts the two robots are started from the yellow line referred to as baseline, one on each opposite side, to get the soda cans. Once the robot returns to the baseline, the player can turn the robot around so that it can collect more cans.

The game does not stop until 2 minutes are up or until all soda cans are removed from the playing field. In each round, one robot from each team collects cans. There are three rounds per challenge.

If a robot stalls or goes out of bounds, the referee or player can pick it up but has to start it from its own team's baseline. If a robot pushes a can out of bounds (the sidelines), the can will either be returned to the playing field or else it is not counted for either team. If a robot pushes a can over the opponent's baseline, that can will count for the opponent and the player or a referee will have to retrieve the robot and start it from its own baseline again.

Rules:

1. Teams are not allowed to touch the cans until they are behind their team's boundary line, in which case they can move the can to a receptacle for tallying.
2. The teams are not allowed to touch their robot unless it crosses one of the boundary lines.
3. The team that gathers the most cans in the allotted time wins the round.