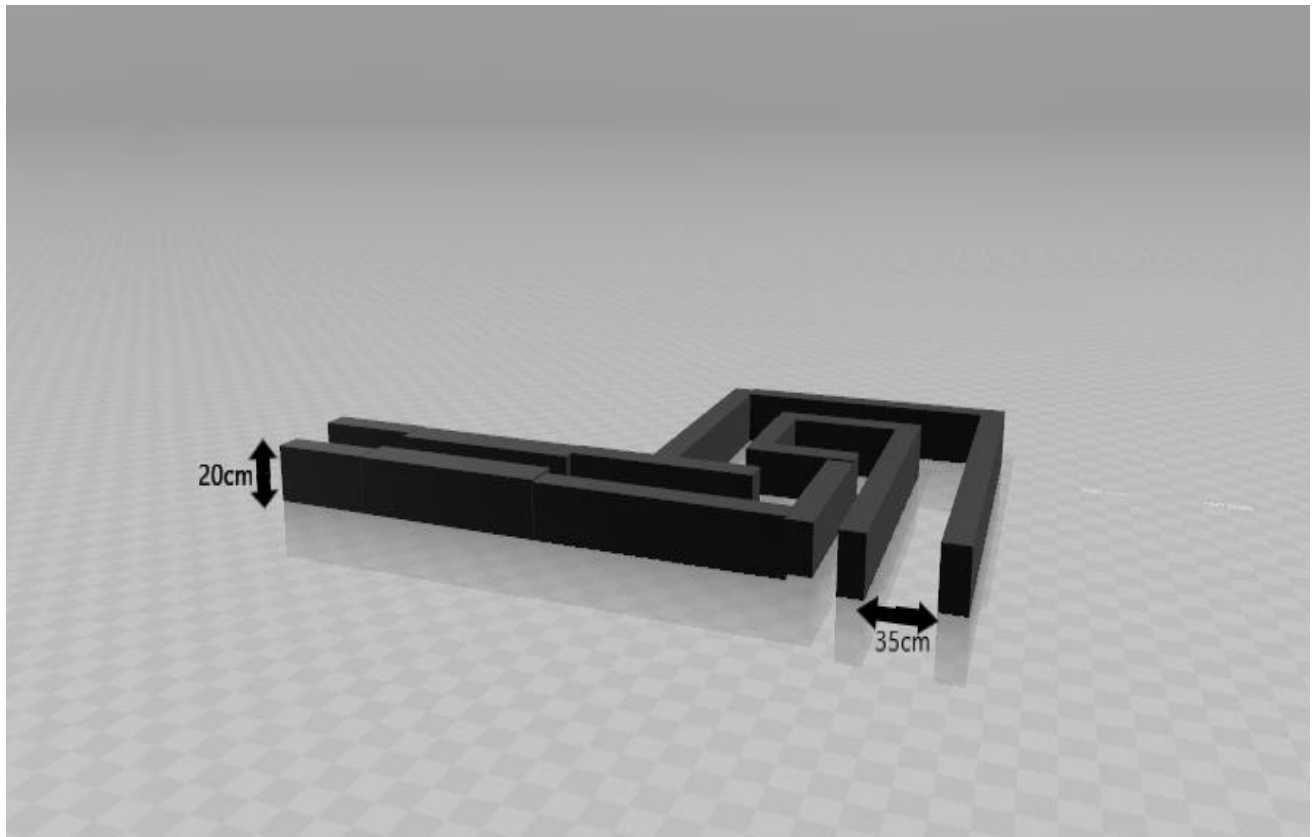


## **OBJECTIVE:**

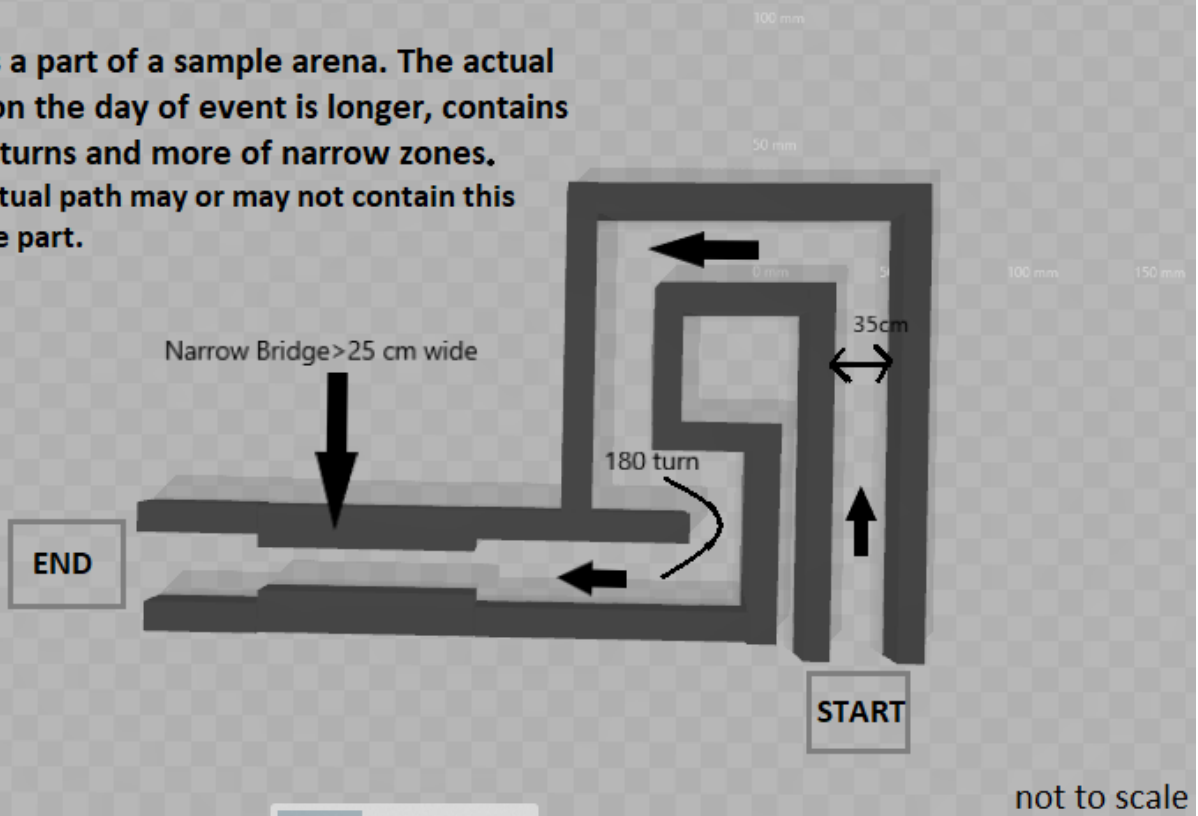
To create an autonomous bot that is able to transverse a path with walls on side including turns and curves. The track has no cross roads, no dead ends and no junctions. However the bot needs to complete the track without hitting side walls. The bot needs to autonomously detect the available path and transverse from start point to end point without damaging the arena. Simply right!

## **ARENA SPECS AND DIMENSIONS:**

- The path contains walls on both side of track with a height of 20cm and black in color.
- Arena will have start and end point marked.
- The track is 35cm wide but at some points it contains narrow passages not less than 25cm.
- The turns are 90 degrees while the U-turn at 180 degrees.
- The complete track fits within area 144 sq feet.
- Bot should not leave any part of its body behind while negotiating the track.
- Bot shall not jump over, fly over, or climb the walls of the track.
- Damage to arena at any point of time will lead to instant disqualification.



This is a part of a sample arena. The actual path on the day of event is longer, contains more turns and more of narrow zones. The actual path may or may not contain this sample part.



## **BOT DIMENSIONS:**

- The Bot dimension should not exceed 20cmX20cmX20cm at any point of time.
- Bot should not have any projected areas that are sharp or in any way can damage the arena.

## **JUDGING:**

- Winner bot will be the one which travels through the path in least time and hitting the walls least.
- Hitting the walls once will cause 50 points penalty
- Once the bot hits the wall, the team can pick the bot with hand to place it back on the track. However the direction of the bot should be same as that was before the hit.
- To restart the track due to any technical issue will lead to penalty of 600 points.
- No trail run will be provided
- Max 4 restarts would be allowed to complete the track.
- The decision of Judges at any point will be final and binding.
- Any violation of above rules may lead to disqualification.

**Robot Control:** Autonomous

**Max team size:** 3

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