

The Bot Mower

Description

Robots need to be designed so that they stay within specific areas. They can also be programmed to follow specific paths. You need to design a robot that will act like an automatic lawn mower. It must stay within a predetermined boundary. The boundary is marked with a dark line. The robot should “cut” all parts of the yard as determined by the judge (grass can be simulated by confetti paper). The lawn mower will run for 90 seconds.

Rules

1. The robot must continue to move for 90 seconds and then shut itself off, otherwise it is disqualified.
2. The robot must not leave the boundary area, otherwise it will be disqualified.
3. The robot should attempt to mow all parts of the enclosed area.
4. If an operator touches the robot before the 90 seconds are complete the robot will be disqualified.
5. The robot who in the opinion of the supervisor covers the most area and meets all other qualifications will be determined to be the best robot. There could be ties in this event.

