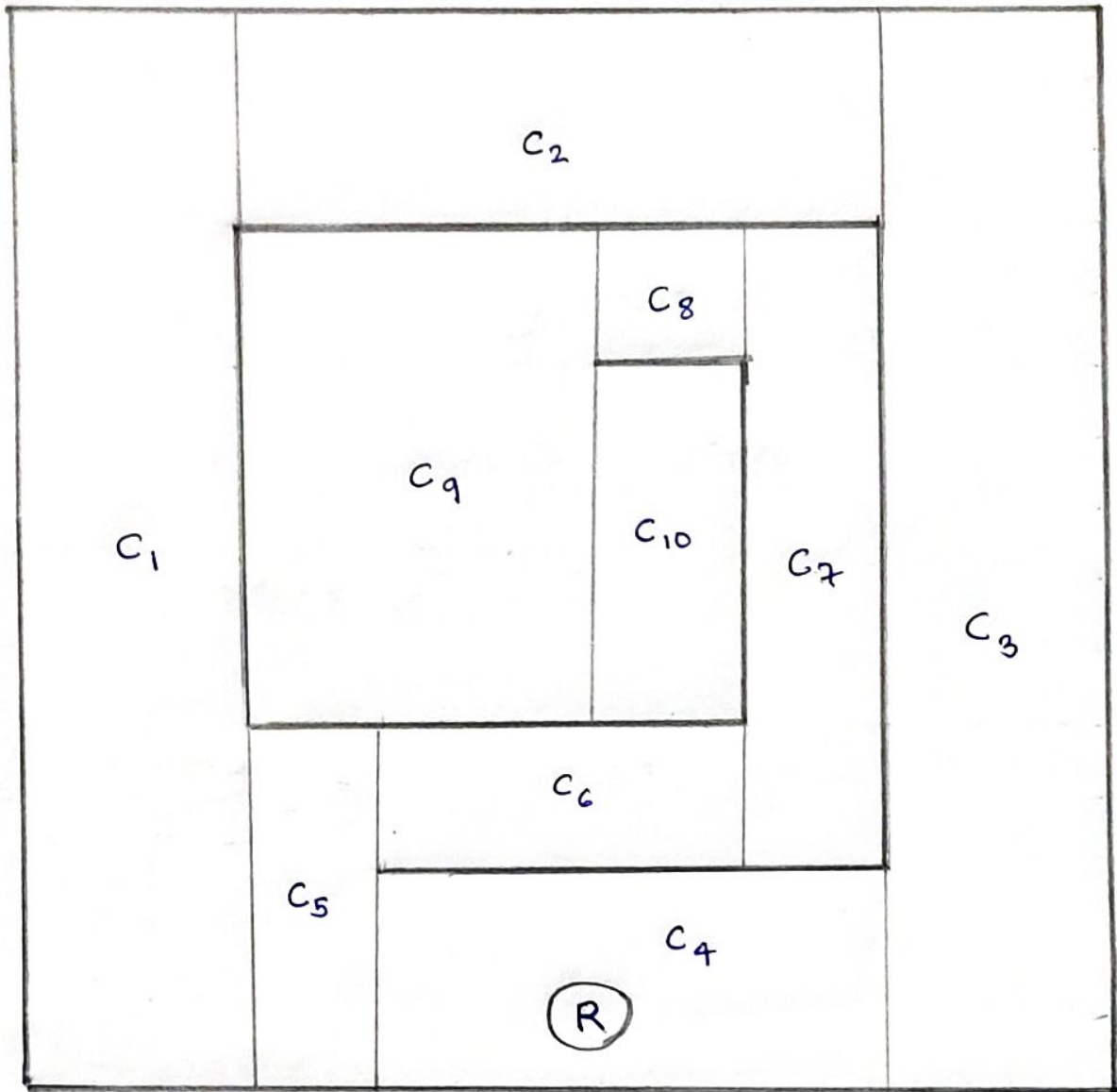


Q. 7

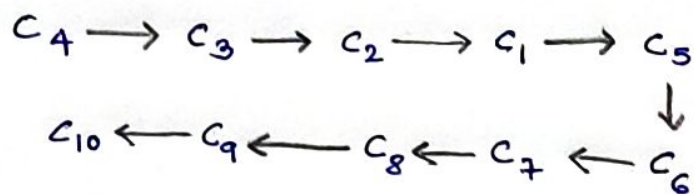
→ Trapezoidal decomposition:



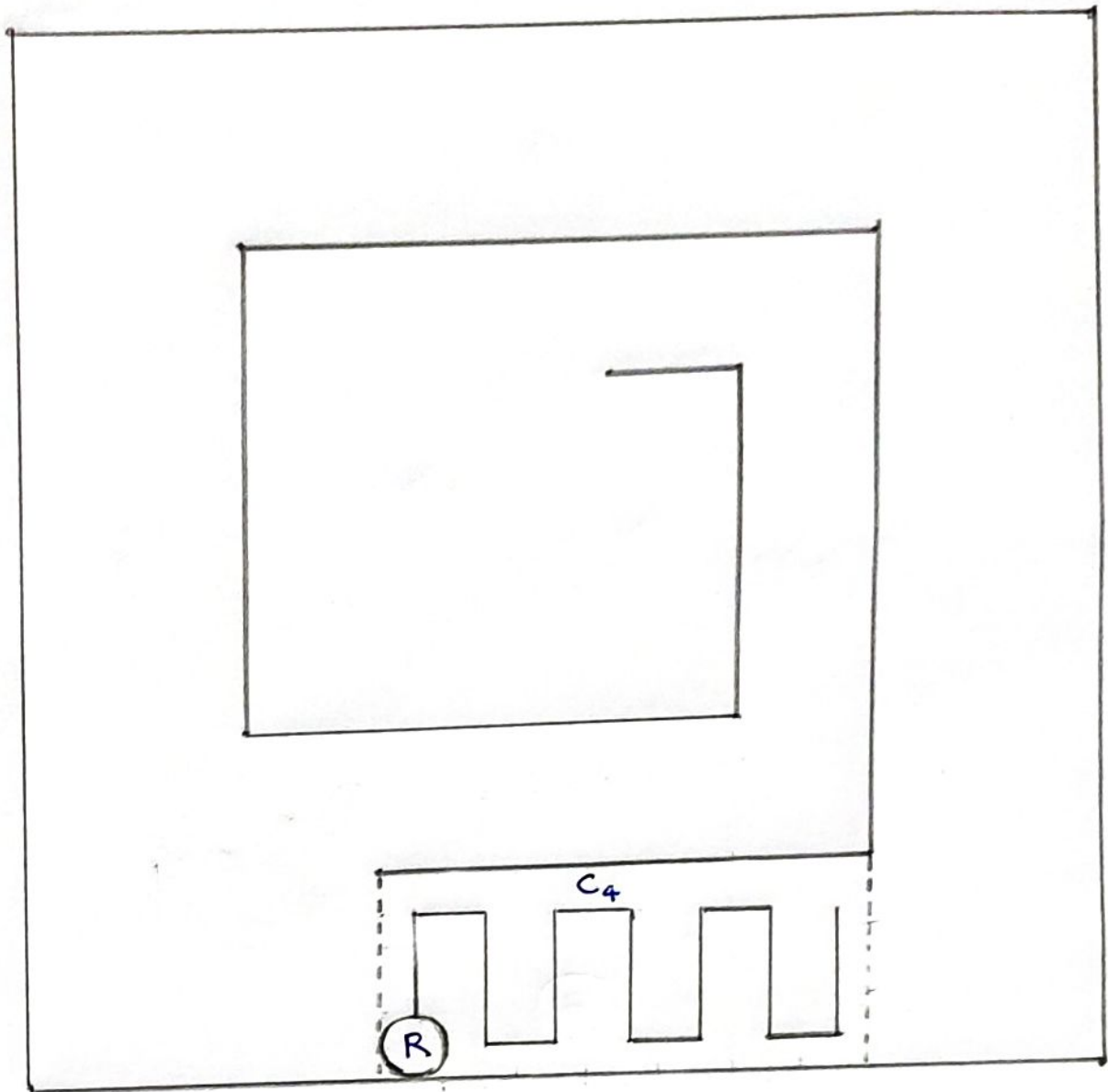
C_i : i^{th} cell

R: Robot

Rebb graph:

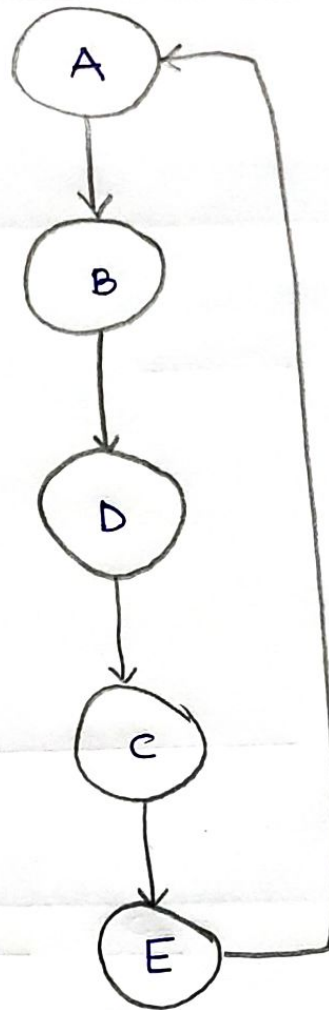


Q.8.



The above consists of lawn mower pattern cell C_4 in the previous environment.

Q.3



A: While not at goal location.

B: Move towards goal.

c: If hit an obstacle.

D: While not able to move towards goal

E: Follow obstacle moving to right until
can head towards goal location.