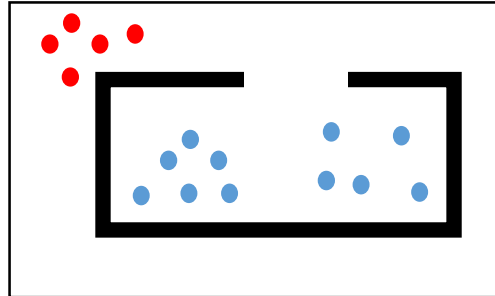


ALS Lab

Gate Special



Part A

- i) One red agent entering the gate [1]
- ii) One red and one blue agent entering and leaving the gate respectively [2]
- iii) ' n ' red agents entering the gate [with collision checking between agents and without collision checking with walls] [5]
- iv) ' n ' red agents entering the gate [with collision checking between agents and with collision checking with walls] [10]

Part B

- i) One blue agent coming out with a fixed group of red agents entering with collision checking between agents [1]
- ii) ' n ' blue agents coming out and ' m ' red agents going in [with collision checking between agents and without collision checking with walls] [3]
- ii) ' n ' blue agents coming out and ' m ' red agents going in [with collision checking between agents and with collision checking with walls] [8]
- iii) Agents coming in and out with all collision checking, while making a 'to-left' rule [10]

Part C

- i) 5 agents coming in and 5 going out with all collision checking while ensuring that no member of any group is separated by more than Δ . [5]
- ii) ' n ' agents coming in and ' m ' going out coming in and out with collision checking while ensuring that no member of any group is separated by more than Δ . [10]