I am dividing the problems that we have to solve according to the state of robot. These are the ones we could think of, if you think of any other problem please feel free to add.

**Middle Robot(s)**

* Follow the leading robot or the robot in front.
* Leave the convoy when commanded.
* If the middle robot is leaving, it must indicate (flag) and leave in a certain pattern.
* If the middle robot is leaving, it must identify last robot (find a path) and go behind the last robot and indicate it is the last robot.

**Last Robot**

* Follow the front robot.
* Indicate that it is the last robot (flag).
* If any of the middle robots come to the last position, the last robot (initial) must identify it and change the flag and behave as middle robot.

**Robot Behind Leaving Robot**

When a middle robot leaves the robot behind leaving robot should,

* Follow the next front robot, consider also the option when convoy is turning.

**Non-Leaving robots**

When a middle robot leaves, the rest of the robots (except the leading robot maybe) shoul be able to

* Identify that a robot is leaving and maintain the distance and speed so that convoy does not break the pattern.