NO

Turn arunde untill front IRs != 0

yes

yes

Back IR != 0

NO

Right IR != 0

Turn right untill front IRs != 0

Turn left untill front IRs != 0

Left IR != 0

yes

NO

yes

yes

Stop the pump

Front IRs = 0

NO

Ultras != 0

Stop and activitate the pump

Move forward

Front IRs != 0

Read the values of the IRs & Ultrasonic

Initialize the peripherals