# 3 – Wide and Sharp Turn

BEGIN LOOP

//This is essentially the same for all simple line segments

IF DETECTED WHITE

IF STATE IS TURNING LEFT

SET STATE TO TURNING RIGHT

ELSE IF STATE IS TURNING RIGHT

SET STATE TO TURNING LEFT

END LOOP

# 8 – Parallel Hallway

BEGIN LOOP

SET ECHO ROTATION TO LEFT

FOLLOW LINE

IF ECHO SENSOR <= 120mm

SET ECHO ROTATION TO RIGHT

IF ECHO SENSOR <= 120mm

SET STATE TO MOVING FORWARD

IF STATE IS MOVING FORWARD

SWEEP THE ECHO SENSOR FROM LEFT TO RIGHT

IF DISTANCE < 100mm

ROTATE VEHICLE BASED ON SENSOR ANGLE

IF LINE DETECTED

SET STATE TO LINE FOLLOW

END LOOP

# 11 - Dead End

BEGIN LOOP

FOLLOW LINE

IF ECHO SENSOR < 100mm

TURN RIGHT 90°

END