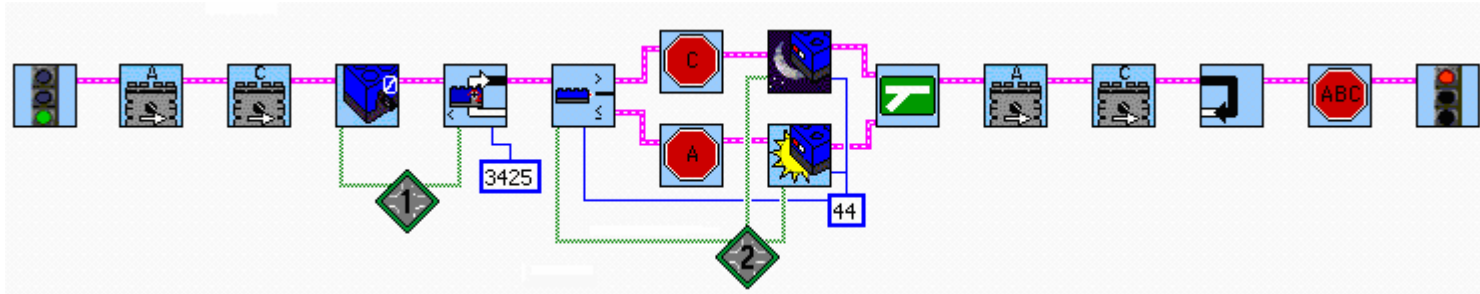


## Follow That Line



This program will follow along the left edge of a black line for 3425 “clicks” on a Rotation Sensor (Aprox 10’)

The program starts out by moving forward and resetting the Rotation Sensor’s counter to zero and entering a loop controlled by the Rotation Sensor counter.

It then checks the Light Sensor reading; if the reading is below ‘44’ then the Sensor is on the line so the behavior is to turn away from the line by stopping the left motor (A) until the Light Sensor reads above ‘44’ (meaning the sensor is no longer on the line) and then proceeding with both motor going forward. However if the reading was over ‘44’ then the Sensor is not on the line so the behavior is the turn towards the line by stopping the right motor (B) until the Light Sensor reads below ‘44’ (meaning the sensor is now on the line) and then proceeding with both motor going forward. Since this is in a loop the program goes back to the start of the loop and again checks the Light Sensor reading. This way the Robot moves along the line by constantly moving either away from or towards the line while proceeding forward.

All this time the Rotation Sensor’s counter is increasing as the Robot moves down the line. When the counter reaches 3425 or greater the loop ends and all outputs are turned off. And the program ends.

If a Rotation Sensor is not available then a Timing Loop can be used in place of the Rotation Sensor Loop.

