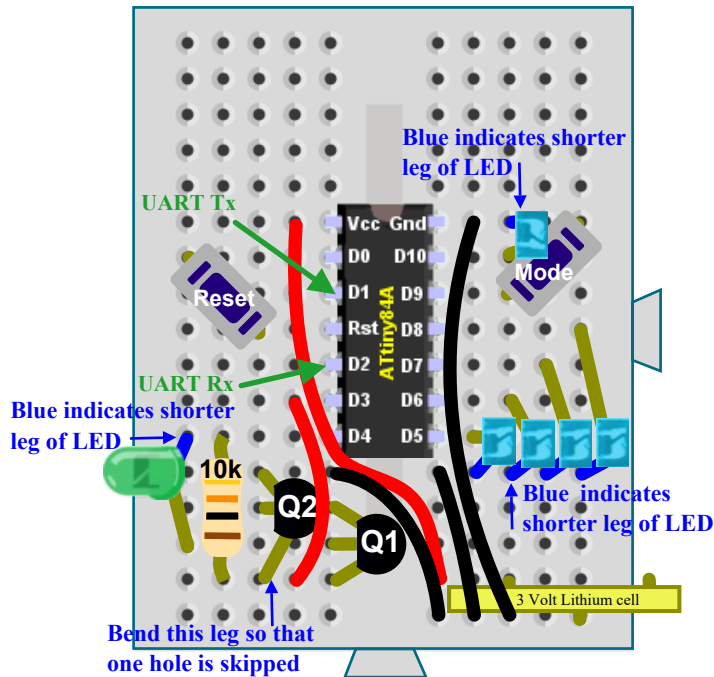


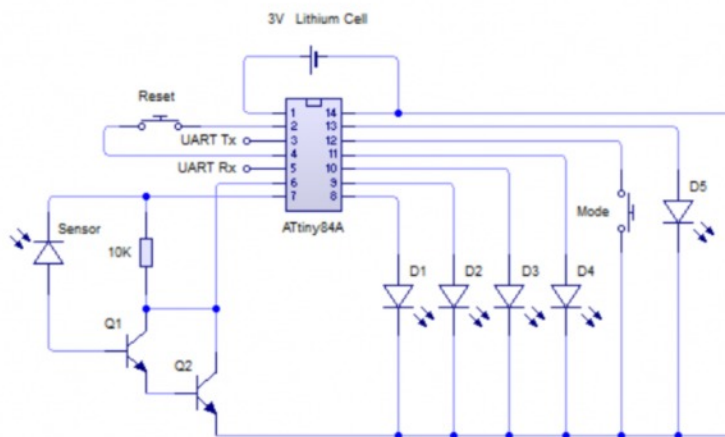
# BCS Kit 4 Data Logger



Build order:

1. Turn the breadboard so that there is a lug on the right and a lug at the bottom.
2. Insert the red and black wires
3. Insert the press button switches (Reset and Mode) diagonally as shown.
4. Insert the transistors and resistor. See the note about bending the leg of Q2
5. Insert the LEDs, take care with the orientation of these.
6. Finally add the Lithium cell. Two legs only are used.

## BCS Kit 4 Data Logger Circuit Schematic



Notes:

ATtiny pin 7 provides the switched sensor Vcc. The sensor consists of a reverse biased LED with Q1 and Q2 as an amplifying Darlington Pair to provide the input signal at pin 6. D1 through D4 form an LED bar for visual feedback while D5 indicates when the ATtiny is active.