

Chip 1 pseudo code:

Set PWM for LED brightness control to inverting mode

Turn off LEDs on Chip 1 to start

Wait 1 sec

define sequence of numbers to send to chip 2

repeat the following three times:

    send value to chip 2

    wait 3 seconds

    receive new value from chip 2

    set PWM based on new value

    wait 3 seconds for a new number

keep last LED settings indefinitely

Chip 2 pseudo code:

Set up 8 LEDs, turn off to start

Loop 3 times while receiving data from chip 1

    Wait for data from chip 1

    Invert data received from chip 1

    Display data on LEDs

    Add 1 to received data value

    Send new data back to chip 1

Keep LEDs in last setting indefinitely