

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