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EC 450

HW1 Write Up

My overall strategy for homework one was to modify the given blinking code (which used the watchdog timer) to blink the Morse code for SOS. In order to do this, I created a one-dimensional array of 18 values, which correspond to multiples of the blink\_interval value for each blink of the LED in the SOS sequence. Then in the WDT interrupt handler, I changed the resetting of blink\_counter to be the current value of the array, which gets iterated through to blink SOS. I also increment the iteration variable, i, and create a condition for it to be reset to zero if the array has been completely iterated through.

Other than the original global variables in the Blink\_using\_WDT example, blink\_interval and blink\_counter, I added the variable i, for incrementing through my array, and I also made said array, sos, a global variable. However, sos is not used to keep track of the state as i and the original two variables are.

For this homework, the hardware used was easy and straightforward. I just used the MSP and the on-board LED.