Ada Wong

EC450

02-05-15

Homework 1

**What was your overall strategy?**

I took the code from blink\_using\_WDT.c and changed a few things:

* I changed the blink\_interval variable into an int array consisting of the timings for SOS
* Every interrupt, blink\_counter is set to the next element in the blink\_interval array
* At the end of the array, it goes back to the beginning by resetting the variable blink\_index.

**What global variables did you use to keep track of the state of the system between WDT interrupts?**

I used the two global variables that were already there, blink\_interval and blink\_counter, and a new variable

volatile unsigned int blink\_index;

It’s used to keep track of and increment through blink\_interval, now an int array that contains the various intervals to create SOS in Morse code. Finally, blink\_counter did not change its purpose, remaining as the count down for the interrupts.

**What hardware did you use and how was it connected?**

I only used the on-board LED1.