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EC450

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Homework 1 Writeup

The code that I wrote for this assignment is built off of the WDT blinking light example. I added two global variables to keep track of the state. One is an array of ints called *blink\_sequence*, which contains the following values: 1, 1, 1, 1, 1, 3, 3, 1, 3, 1, 3, 3, 1, 1, 1, 1, 1, 7. The other global variable that I added is an index *i* into *blink\_sequence*. My overall strategy was to multiply *blink\_interval* by a value in *blink\_sequence* each time *P1OUT* is toggled. In other words, *blink\_interval* is a duration of 1 unit, and the values in *blink\_sequence* are used to change the duration in the order that blinks “SOS” on the onboard LED1.

*i* is initialized to 0 in the main function. In the interrupt handler, I changed the line:

*blink\_counter = blink\_interval*

to:

*blink\_counter = blink\_sequence[i]\*blink\_interval*

After this line, *i* is incremented or set back to zero if it equals the length of *blink\_sequence.*