The purpose of this assignment is to give you experience with the AVR’s timers and the use of interrupts.

You are to repeat assignment #1, this time performing the timing using an interrupt-driven timer. You are to write an interrupt service routine (ISR) for one of the hardware timers on the AVR. Each time the timer interrupts, you should update a counter variable. Then, when determining the amount of time that the switch is held down, use the counter value. Then, use the counter again to determine how long to turn on the LED.

As before, in addition to writing the code, determine the size of the code in your program, including main and the ISR.