- 1) 60 Hz gives us a 16.67 ms period. If we divide the clock by 8000 we will get 1 ms per timer count. We can set the PSC value to 7999 and the AAR value to 17. Since we can't get 16.67ms exactly, doing 17ms counts will suffice.
- 2) PE3, PA6 AF1, PC6 AF0, PB4 AF1.
- 3) 105µs
- 4) When I increased the CCR value the duty cycle increased, spending little time at low voltage.
- 5) I'm not sure if this is a trick question but I got the same results, the duty cycle increased and I had less time with the voltage high.
- 6) At the end are two captures from a scope. The first is the blue LED with a low CCR value decreasing the duty cycle. The second is the red LED with a high CCR value increasing the duty cycle. Low duty cycle means dimmer LED.
- 7) Edge aligned PWM.

