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ECE 375
Lab 7 Pre-lab

1. *List the correct sequence of AVR assembly instructions needed to store
   the contents of registers R25:R24 into Timer/Counter1's 16-bit register,
   TCNT1. (You may assume that registers R25:R24 have already been initialized
   to contain some 16-bit value.)*

   ```
   Out   TCNT1L, r24
   Out   TCNT1H, r25
   ```

2. *List the correct sequence of AVR assembly instructions needed to load
   the contents of Timer/Counter1's 16-bit register, TCNT1, into registers
   R25:R24.*

   ```
   In    r24, TCNT1L
   In    r25, TCNT1H
   ```

3. *Suppose Timer/Counter0 (an 8-bit timer) has been configured to operate
   in Normal mode, and with no prescaling (i.e., clkT0 = clkI/O = 16 MHz).
   The decimal value "128" has just been written into Timer/Counter0's 8-bit
   register, TCNT0. How long will it take for the TOV0 flag to become set?
   Give your answer as an amount of time, not as a number of cycles.*

   DelayNormal = (Max-value)*prescale/clkio
   DelayNormal=7.9375 us