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Answer all of the following questions before coming into the lab. You will lose marks if your prelab is incomplete.

Read through the lab6 document. Then study the details of ATmega32 timers. Pay close attention to the normal mode and CTC mode of Timer 0 and 1.

1. How many timers are available within ATmega32? How many bits for each timer?

The ATmega32 has 3 timers. Timer0 and Timer2 are 8 bit timers. Timer1 is a 16 bit timer

2. What is the purpose of prescaler in AVR timers?

The purpose of a prescaler in the AVR timers is to lower the input frequency to the timer in order to
generate a longer delay.

3. Write the delay subroutine as outlined in the lab.

4. Write the counter program as outline in the lab.