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Milestone 1 Questions

**What does pwmled2 set the PWM period to?** 3000 microseconds. First it sets the variable pwmPeriod to 3000, then initializes PWM\_Params params, and then assigns params.periodValue = pwmPeriod;

**Which PWM\_xxx() function sets the PWM period?** PWM\_open. The parameter is set using params.periodValue = pwmPeriod; but is not actually used until pwm1 = PWM\_open(CONFIG\_PWM\_0, &params); and pwm2 = PWM\_open(CONFIG\_PWM\_1, &params); These set the period for both of the lights.

**Which PWM\_xxx() function sets the PWM duty cycle?** PWM\_setDuty. It is used for both lights in PWM\_setDuty(pwm1, duty); and PWM\_setDuty(pwm2, duty); The duty is then incremented to make the lights flash on and off.

**What is the purpose of the while(1) loop in pwmled2?** Without the while loop the lights would only do one cycle of PMW\_setDuty which would be duty = 0 so would never appear on.

**What is the purpose of usleep() in the while(1) loop?** Usleep adds a delay of whatever the parameter time in microseconds is. It is set to 50,000 so 1/20th of a second. Then it repeats the loop increasing or decreasing the brightness by whatever duty is set to.