```
#include "Proj_IE_header_file.h"

volatile int m;
volatile char overflow;
unsigned int PORT_1;
int main (void){
    unsigned long counter_squared, counter=1;
    m=!
    PORT_1=1;
    Overflow=0;
    setup_HW;
    sei();
    T1_65ms_clock_tick();

    while(1){
        (ounter_squared = counter*counter;
        if((!counter*333))&& (switch_2_down)){
            Num_to_Pc_U(10, counter); char_to_P(c'\t');
            Num_to_pc_U(10, counter); newline();
        }
    }
    Lounter = (counter + 1)%x01000;
    Timer_T2_sub(T2_delay_2ms);}
}

ISR(TIMERI_OVF_vect) {
        if(cverflow)PORT_1 |= 1;
        if (Goverflow)PORT_1 |= 1;
        if (PORT_1 & 0x08000) overflow=1;
        else overflow = 0;
    }
}

//used in ISR but apparently does not need to be volatile?
//overflow is set to 1 when the most left hand leds are illuminated

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```