

```
1: #include "Set_TF2.c"
2:
3: void default_Seq(){
4:     //REMEMBER TO REPLACE THE DELAYS WITH vdelay_ms() COMMAND!!!
5:
6:     PORTB = 0b00010010;          //All Amber
7:     delay_ms(500);
8:     PORTB = 0b00001001;          //All Red
9:     delay_ms(2000);
10:
11:     while(1){
12:         Set_Traffic();           //check for traffic count
13:         delay_ms(500);
14:         PORTB = 0b00100001;       //NS Red, EW Green
15:         Vdelay_ms(delayLen_msA);
16:         PORTA = delayLenA;         //show delay length on 7 seg display
17:         PORTB = 0b00010001;       //NS Red, EW Amber
18:         delay_ms(500);
19:         PORTB = 0b00001001;       //NS Red, EW Red
20:         delay_ms(500);
21:         PORTB = 0b00001100;       //NS Green, EW Red
22:         Vdelay_ms(delayLen_msB);
23:         PORTA = delayLenB;
24:         PORTB = 0b00001010;       //NS Amber, EW Red
25:         delay_ms(500);
26:         PORTB = 0b00001001;       //NS Red, EW Red
27:     }
28: }
29:
30: void main() {
31:
32:     //set the Counters
33:     T0SE_bit = 0;                //increment at rising edge of T0CK
34:     TMR1ON_bit = 1;
35:     T1OSCEN_bit = 1;
36:     TMR1CS_bit = 1;
37:     T0CS_bit = 1;
38:
39:     //initialise ports
40:     PORTA = 0x00;
41:     PORTB = 0x00;
42:     TRISA = 0xF0;
43:     TRISB = 0x00;
44:     TMR0 = 0;
45:     TMR1L= 0;
46:
47:     //run the main sequence please!
48:     default_Seq();
49:
50:
51:
52: }
```