

```

1  #include "mbed.h"
2  #include "sw_tick_serial.h"
3  #include "pinout.h"
4
5  //pinout
6  static BusOut display(SGA_PIN, SGB_PIN, SGC_PIN, SGD_PIN, SGE_PIN, SGF_PIN, SGG_PIN);
7  static BusOut leds(LDR_PIN, LDM_PIN, LDL_PIN);
8  int8_t to_7seg(uint8_t code);
9
10 static DigitalOut dsl(DSL_PIN);
11
12 int main (void) {
13     sw_tick_serial_init();
14     uint8_t contador = 0;
15     leds = 1;
16     dsl = 1;
17
18     for (;;) {
19         if(gb_tick_1s_evnt){
20             gb_tick_1s_evnt = false;
21             display = to_7seg(contador);
22             contador = (contador==9)? 0 : (contador+1);
23         }
24         if(gb_tick_100ms_evnt){
25             gb_tick_100ms_evnt = false;
26             leds = ((4 == leds) ? 1 : (leds << 1));
27         }
28     } // forever
29 } //main(void)
30
31 int8_t to_7seg(uint8_t code){
32     const int8_t sseg[]={0x3F, 0x06, 0x5B, 0x4F, 0x66, 0x6D, 0x7D, 0x07, 0x7F, 0x6F}; //
33     //const int8_t sseg[]={0x6F, 0x7F, 0x07, 0x7D, 0x6D, 0x66, 0x4F, 0x5B, 0x06, 0x3F };
34     return (code<=9) ? sseg[code] : 0;
35 }
36

```