```
#include "mbed.h"
#include "sw_tick_serial.h"
 1
     #include "pinout.h"
 3
 4
     #include "to 7seg.h"
 6
     static DigitalOut dsl(DSL_PIN);
     static DigitalOut dsr(DSR PIN);
     static BusOut display(SGA PIN, SGB PIN, SGC PIN, SGD PIN, SGE PIN, SGF PIN, SGG PIN);
10
     static BusOut leds(LDR_PIN, LDM_PIN, LDL_PIN);
11
12
13
     int main (void) {
  sw_tick_serial_init();
14
15
       uint8_t contador_display = 0;
16
17
       bool mux=0;
18
19
       leds = 1;
20
       for (;;) {
21
22
23
         if(gb tick 10ms evnt){
24
           gb_tick_10ms_evnt = false;
25
26
           mux = mux ? 0 : 1;
           dsr = mux ? 0 : 1;
27
           ds1 = mux ? 1 : 0;
28
29
           display = (dsl==1) ? 0x54 : to_7seg(contador_display);
30
31
         if(gb_swm_evnt){
32
           gb swm evnt = false;
33
           contador_display = (contador_display == 9) ? 9 : (contador_display+1);
34
35
36
37
         if(gb swl evnt){
38
           gb swl evnt = false;
39
           contador_display = (contador_display == 0) ? 0 : (contador_display - 1);
40
41
42
43
         if(gb swr evnt){
44
           gb swr evnt = false;
45
           contador_display = 0;
46
47
48
         if(gb_tick_100ms_evnt) {
49
           gb_tick_100ms_evnt = false;
leds = (leds == 4) ? 1 : (leds << 1);</pre>
50
51
52
53
54
55
       } // forever
56
57
     }//main(void)
58
59
```