```
#include "mbed.h"
#include "pinout.h"
#include "to_7seg.h"
 6
               g_seven_seg(SGA_PIN, SGB_PIN, SGC_PIN, SGD_PIN,
                              SGE PIN, SGF PIN, SGG PIN);
10
     DigitalOut g_dsr(DSR_PIN);
DigitalOut g_dsl(DSL_PIN);
11
12
13
14
                g_leds(LDR_PIN, LDM_PIN, LDL PIN);
15
     BusOut
16
17
18
     static InterruptIn swm(SWM PIN);
19
     static bool volatile swm fall evnt;
     static void swm_fall_isr_(void) {
20
21
      swm_fall_evnt = true;
22
23
     //rebotes SWM
static Timeout tout_swm;
24
25
26
     static bool volatile tout_swm_evnt;
27
     static void tout swm isr (void) {
28
      tout_swm_evnt = true;
29
30
31
32
     static Ticker tick 1s;
     static bool volatile tick 1s evnt;
     static void tick_1s_isr (void) {
34
3.5
      tick_1s_evnt = true;
36
37
38
     //Tiempo de apagar el led
39
     static Timeout tout_1s;
40
     static bool volatile tout_1s_evnt;
41
     static void tout_1s_isr (void) {
42
      tout 1s evnt = true;
43
44
     static int16_t cnt_led = 0;
45
46
47
48
     int main (void) {
49
50
       int8_t cnt_display = 4;
51
       g_dsl = 1;
52
       g dsr = 0;
53
54
       g_seven_seg = to_7seg(cnt_display);
5.5
56
       tick_1s.attach_us(tick_1s_isr, 2000000);
57
58
       swm.mode(PullUp);
59
       swm.fall(swm_fall_isr);
60
61
       for (;;) {
62
63
         if(swm_fall_evnt) {
64
65
            swm_fall_evnt = false;
66
           tout swm.attach us(tout swm isr, 4000);
67
68
         if(tout_swm_evnt) {
69
70
           tout_swm_evnt = false;
71
72
           if(swm == 0){
73
             cnt display = (cnt display == 0) ? 8 : (cnt display-2);
74
              g_seven_seg = to_7seg(cnt_display);
75
76
77
78
79
         if(tick_1s_evnt) {
80
           tick_1s_evnt = false;
81
82
           tout 1s.attach us(tout 1s isr, 1000000);
           cnt \overline{l}ed++;
83
84
```

```
85
86
           if(tout_1s_evnt) {
  tout_1s_evnt = false;
  g_leds = 0;
}
87
88
89
90
           __disable_irq();
if(!swm_fall_evnt && !tout_swm_evnt && !tick_1s_evnt && !tout_1s_evnt){
91
92
          ...wm_fal
__WFI();
}
93
94
           __enable_irq();
95
96
        } // for (;;)
} // main()
97
98
99
```