```
#include "mbed.h"
#include "pinout.h"
 1
     #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
15
                g leds(LDR PIN, LDM PIN, LDL PIN);
     BusOut
16
17
18
     //CAMBIO DE CUENTA cada 1. static Ticker tick_1200ms;
19
20
     static bool volatile tick_1200ms evnt;
21
22
     static void tick_1200ms_isr (void) {
23
      tick_1200ms_evnt = true;
24
25
26
27
28
29
     static InterruptIn swr(SWR PIN);
30
     static bool volatile swr_fall_evnt;
31
     static void swr_fall_isr(void){
32
      swr fall evnt = true;
34
3.5
36
37
     static Timeout tout 4ms;
                                                  //frequencia de multiplexación de 250Hz 4000us
     static bool volatile tout 4ms evnt;
39
     static void tout_4ms_isr(void) {
40
       tout_4ms_evnt = true;
41
42
43
     static int8 t cnt sw = 0;
44
45
     int main (void) {
46
        g_dsl = 1;
47
       uint8 t cnt display = 0;
48
       g_seven_seg = to_7seg(cnt_display);
49
       tick_1200ms.attach_us(tick_1200ms_isr, 1200000);
50
51
52
       swr.mode(PullUp);
53
       swr.fall(swr_fall_isr);
54
55
       for (;;) {
56
57
         if(tick 1200ms evnt) {
            tick \overline{1}200ms evnt = false;
58
            g_dsl =1;
59
            cnt_display = cnt_display == 9 ? 0 : cnt_display+1;
60
61
           g seven seg = to 7 seg(cnt display);
62
63
         if(swr_fall_evnt) {
   swr_fall_evnt = false;
64
65
66
            tout 4ms.attach us(tout 4ms isr, 4000);
67
68
69
         if(tout_4ms_evnt) {
70
            tout_4ms_evnt = false;
71
72
           if (swr == 0) {
73
               cnt_sw++;
74
75
               if( cnt_sw%2 == 0){
76
                 g leds = 0;
77
78
               }else{
                  g_{leds} = 2;
79
80
81
82
83
          __disable_irq();
84
```

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```