

```

1  #include "mbed.h"
2  #include "pinout.h"
3
4  //pinout
5
6  static DigitalOut dsl(DSL_PIN);
7  static DigitalOut dsr(DSR_PIN);
8
9  static BusOut display(SGA_PIN, SGB_PIN, SGC_PIN, SGD_PIN, SGE_PIN, SGF_PIN, SGG_PIN);
10
11  static Ticker tick; // frecuencia multiplexacion 250Hz
12  static bool volatile tick_4ms;
13
14  static void to_isr(void) {
15      tick_4ms = true;
16  }
17
18  int main (void) {
19      tick.attach_us(to_isr, 4000);
20      bool mux = 0;
21
22      for (;;) {
23          if(tick_4ms){
24              tick_4ms = false;
25
26              mux = mux ? 0 : 1;
27              dsl = mux ? 1 : 0;
28              dsr = mux ? 0 : 1;
29              display = dsl ? 0x3F : 0X54;
30          }
31
32          } // forever
33
34      } // main()
35
36

```