

```

1  #include "mbed.h"
2  #include "to_7seg.h"
3  #include "control.h"
4  #include "display.h"
5  #include "hardware.h"
6  #include "range_finder.h"
7  #include "switch.h"
8  #include "pinout.h"
9
10 int main (void) {
11
12     hw_init();
13
14     rf_init(&g_trg, &g_ech);
15     swm_init(&g_swm);
16     display_init(&g_dsl, &g_dsr, &g_seven_seg);
17     control_init(&g_leds, &g_lit);
18
19     for(;;) {
20
21         rf_fsm();
22         swm_fsm();
23         display_fsm();
24         control_fsm();
25
26         __disable_irq();
27         if (gb_control_can_sleep && gb_display_can_sleep && gb_swm_can_sleep && gb_rf_can_sleep) {
28             __WFI();
29         }
30         __enable_irq();
31     }
32 }
33

```