```
#include "mbed.h"
#include "pinout.h"
#include "hardware.h"
 1
 3
      #include "to 7seg.h"
     #include "range finder.h"
     #include "switch.h"
#include "display.h"
#include "control.h"
 6
10
     int main (void) {
11
12
       hw_init();
13
14
15
        rf_init(&g_trg, &g_ech);
16
17
18
        swm_init(&g_swm);
19
20
21
        display_init(&g_dsl,&g_dsr,&g_seven_seg);
22
23
        control_init(&g_leds, &g_lit);
24
25
26
27
28
       for (;;) {
29
30
         rf_fsm();
31
32
33
34
         swm_fsm();
35
36
37
          display_fsm();
38
39
40
          control_fsm();
41
42
43
          __disable_irq();
if (gb_rf_can_sleep && gb_swm_can_sleep && gb_display_can_sleep &&
44
45
     gb_control_can_sleep) {
          ____Can
___WFI();
46
47
       enable_irq();
forever
48
49
50 } // main()
51
```