

```

1  #include "hardware.h"
2
3  // seven segment display anodes
4  // when in a int8_t, they are 0b-GFEDCBA
5  BusOut      g_seven_seg(SGA_PIN, SGB_PIN, SGC_PIN, SGD_PIN,
6                        SGE_PIN, SGF_PIN, SGG_PIN);
7
8  // display cathodes
9  PwmOut      g_dsl(DSL_PIN);
10 PwmOut      g_dsr(DSR_PIN);
11
12 // hc-sr04 range finder
13 DigitalOut  g_trg(TRG_PIN);
14 InterruptIn g_ech(ECH_PIN);
15
16 // swt
17 InterruptIn g_swm(SWM_PIN);
18
19 // LEDS
20 DigitalOut  g_ldl(LDL_PIN);
21
22 // LDR
23 AnalogIn    g_lit(LIT_PIN);
24
25 // hardware initialization
26 void hw_init (void) {
27     g_ech.mode(PullDown);
28     g_swm.mode(PullUp);
29 }
30

```