Reset ISR

Turn off 7seg display

NO

Write to 7 SEG PIO and seven\_seg\_count--

YES

seven\_seg\_count >= 0?

Turn off LED

NO

YES

Write to LED REG and led\_sw\_count--

led\_sw\_count >= 0?

NO

KEY PRESS?

Reset ISR

Set countdown.

Set 7seg state.

Set countdown.

Set LED state.

YES

Key 2

Key 1

KEY #?

Button ISR

NO

YES

TIMER EXPIRED?

main()

Do initialization variables. Run an infinite while loop for the program…