```
;--------------------------------------------------------------------------------
;**** Added by Fuse Configurator ****
; Use the Fuse Configurator plug-in to change these settings

Device = 16F676

Config FOSC_HS, WDTE_OFF, PWRTE_OFF, MCLRE_ON, BOREN_OFF, CP_ON, CPD_ON

;**** End of Fuse Configurator Settings ****
;--------------------------------------------------------------------------------
Xtal = 20
ANSEL = 0
Declare Sonyin_Pin = PORTC.0
Input PORTC.0

Symbol Relay = PORTA.2
Symbol Led = PORTC.1
Output Relay : Output Led

Dim IR As Word
Dim cnt As Word
Dim time As Word
Dim cmd As IR.LowByte
Dim system_flag As Bit
Dim pause_flag As Bit
Clear

start:

While 1 = 1
  GoSub check_IR
  If system_flag = 1 Then
    GoSub duty
  Else
    Relay = 0
    Led = 0
  EndIf
Wend

check_IR:
  cmd = 255
  IR = SonyIn
  If cmd = 0 Then system_flag = 1 : DelayMS 500
  If cmd = 2 Then system_flag = 0 : DelayMS 500
  If cmd = 6 Then pause_flag = 1 : DelayMS 500
  If cmd = 8 Then pause_flag = 0 : DelayMS 500
  If cmd = 9 Then DelayMS 300 : GoSub reset_sys
Return

duty:
  Led = 1

  time = 34
  Relay = 1
  GoSub delay

  time = 99
  Relay = 0
  GoSub delay

  time = 129
  Relay = 1
  GoSub delay

  time = 60
  Relay = 0
  GoSub delay

  time = 53
```

```
    Relay = 1
    GoSub delay

    time = 41
    Relay = 0
    GoSub delay
Return

delay:
    time = (time * 10) - 45
    For cnt = 0 To time
      GoSub check_IR
      If system_flag = 0 Then Break
      If pause_flag = 1 Then GoSub hold
      DelayMS 1
    Next
Return

reset_sys:
    Relay = 0
    For cnt = 0 To 5
      Led = ~Led
      DelayMS 200
    Next
    cmd = 255
GoTo start


hold:
    Repeat
      Led = 1
      Relay = 0
      DelayMS 100
      Led = 0
      DelayMS 100
      GoSub check_IR
    Until pause_flag = 0
    Led = 1
Return
```