```
'----Title-----
' File.....bounce1.pbp
' Started....6/1/05
' Microcontroller used: Microchip Technology 16F88
                       microchip.com
' PicBasic Pro Code, micro-Engineering Labs, Inc.
                   melabs.com
'-----Program Desciption-----
' Eight LED's scroll on then off from left to right
' then from right to left.
'----Revision History-----
' 11/6/07: Change MCU from 16F84A to 16F88
'-----Variables-----
   LED VAR BYTE
                      ' Variable LED setup as a byte
'-----Initialization-----
   PORTB = %00000000
                       ' Sets all PORTB pins to LOW (turns off
                       ' all LEDs)
   TRISB = %00000000
                      ' Sets up pins RB7-RB0 of PORTB as outputs
   OSCCON = $60
                       ' Sets the internal oscillator in the
                       ' 16F88 to 4 MHz
'----Pin List for 18 Pin Microcontrollers----
        Pin
               PORT/Pin
         0
               PORTB.0
         1
               PORTB.1
         2
                PORTB.2
         3
                PORTB.3
         4
                PORTB.4
         5
                PORTB.5
         6
                PORTB.6
         7
                PORTB.7
         8
                PORTA.0
         9
                PORTA.1
         10
                PORTA.2
         11
                PORTA.3
         12
                PORTA.4
         13
                PORTA.5
         14
               PORTA.6
         15
               PORTA.7
'----Main Code-----
```

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```
' start label
start:
' Loops LEDs to right:
   FOR LED = 0 TO 7
                        ' Loops through all 8 LEDs.
                        ' Since STEP is not given, the
                        ' increment is automatically +1.
   HIGH LED
                        ' Turns on LED one at a time
   PAUSE 250
                        ' Holds LED on for 250 milli-seconds
   LOW LED
                        ' Turns off LED
   NEXT LED
                        ' Goes to next LED
' Loops LEDs to left:
   FOR LED = 6 TO 1 STEP -1 ' Loop through 6 middle LEDs.
                              ' STEP is a negative number so
                              ' the variable LED will decrease by 1
                              ' each time through the FOR..NEXT loop.
                        ' Turns on LED one at a time
   HIGH LED
                        ' Holds LED on for 250 milli-seconds
   PAUSE 250
                        ' Turns off LED
   LOW LED
   NEXT LED
                        ' Goes to next LED
' Loop back to the beginning:
   GOTO start
                       ' Loops back to the start label
   END
```

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