

7.10

0032

RCALL SUB1

0034

MOVWF REG1

0050

SUB1

MOVF

REG2, W

0052

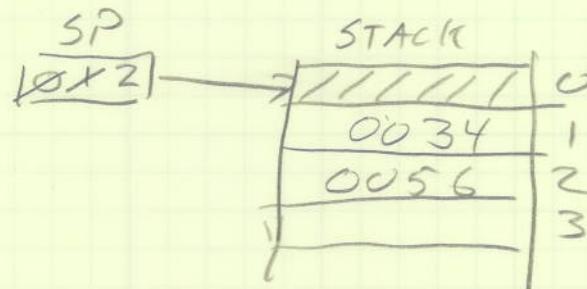
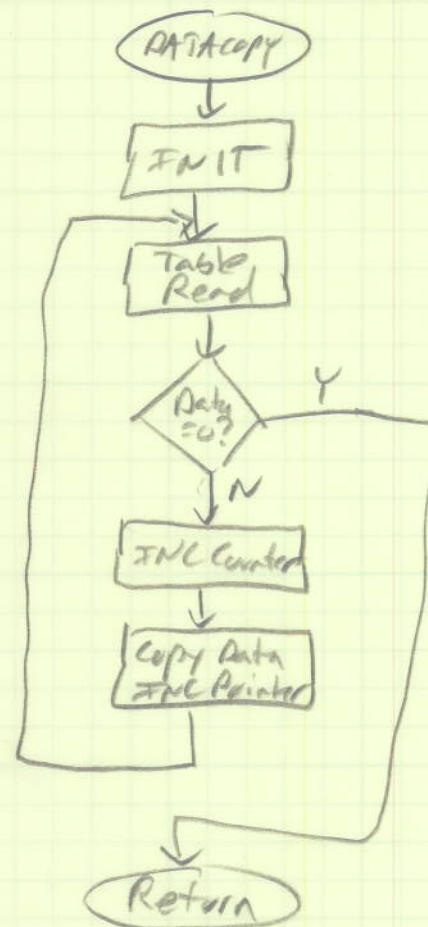
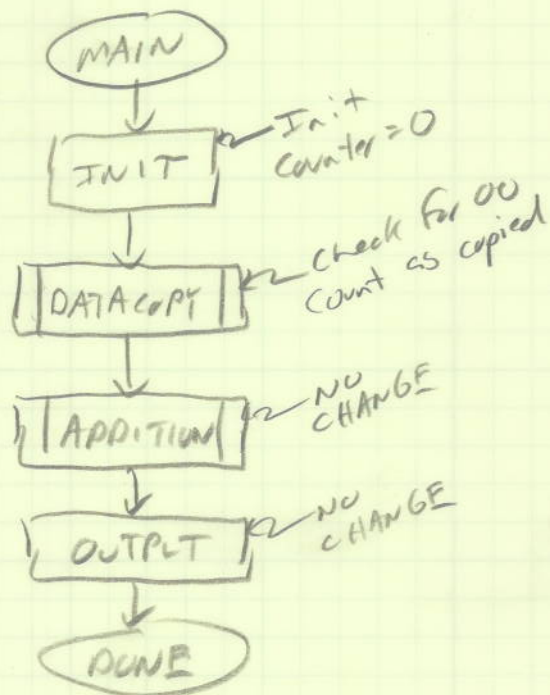
CALL

SUB2

0056

COMF

REG1, F

7.20



```

        CLRF  CYREG          ;Clear carry register and W for sum
        MOVLW 0x00
NXT:    ADDWF POSTINC0,W      ;Add byte and increment FSR0
        BNC   SKIP           ;Check for carry: if no carry jump to SKIP
        INCF  CYREG,F        ;If there is carry, increment CYREG
SKIP:   DECF  COUNTER,F      ;Decrement counter
        BNZ   NXT           ;Is addition complete? If not go back

SOURCE:  DB      0xF6,0x67,0x7F,0xA9,0x72,0x00 ;Added 00 as last byte

        END

```

9.4



Internal Pull-up: open = '1'  
closed = '0'

Common cathode: '1' turns ON

```

REGB EQU 0x01 ; Register to save INPUT
ORG 0x20
MOVLW B'11110000' ; RB7-4 Input, RB3-0 output
MOVWF TRISA
BCF INTCON2, 7 ; Enable Pull-up resistors
LOOP MOVFF PORTB, REGB ; Read switches
COMF REGB, F ; Complement switch reading
SWAPF REGB, F ; Swap switches to LEDs
MOVFF REGB, PORTB ; Turn on LEDs
BRA LOOP
END
  
```

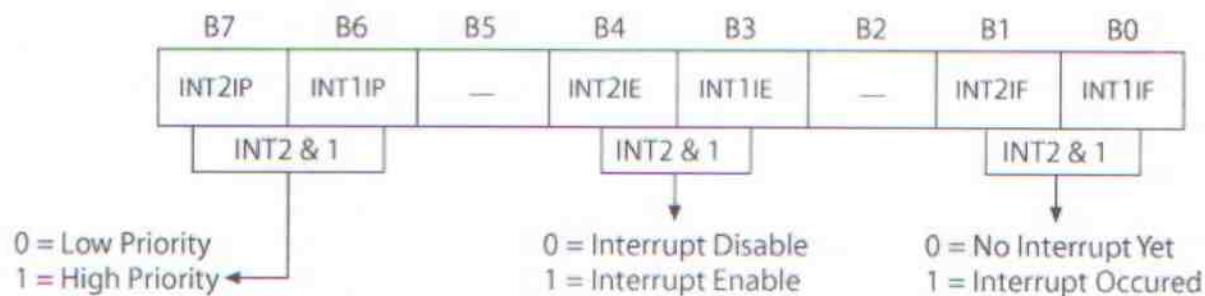
10.19

```

ORG    0x0008    ; High priority interrupt vector
BTFSB  INTCON3, INT1IF ; Check INT1 Flag - skip if clear
GOTO   INT1_ISR
BTFSB  PIR1, TMR1IF ; Check Timer 1 Flag - skip if clear
GOTO   TMR1_ISR
RETFIE FAST      ; Return - False alarm

```

INTCON3 Register:



PIR1 Register:

B7	B6	B5	B4	B3	B2	B1	B0
PSPIF <sup>(1)</sup>	ADIF	RCIF	TXIF	SSPIF	CCP1IF	TMR2IF	TMR1IF