ERRATA SHEET

Chapter 3:

3.13 (pg. 100)   This exercise has incorrectly been placed at the end of Chapter 3. It belongs in Chapter 5. To avoid confusion in looking up solutions, we have placed the solution in the file for Chapter 3.

Chapter 4:

4.10, 4.12, 4.14 (pg 140-141): These three questions use ADD, BR, and LD instead of ADD, JMP, and LDR respectively since JMP and LDR are not covered in chapter 4.

Chapter 8:

8.14. (pg 310)   The code in question should be as follows:

```
    .ORIG       x3000
            LEA R3, NUM1
            LEA R4, NUM2
            LEA R5, RESULT
            LDR R1, R3, #0
            LDR R2, R4, #0
            ADD R0, R1, R2
            STR R0, R5, #0
            _____  (a)
            LDR _____ (b)
            LDR _____ (c)
            ADD R1, _____ (d)
            _____  (e)
            STR R0,_____ (f)

    X       ST R4, SAVE R4
            AND R0, R0, #0
            BRn _____ (g)
            ADD R1, R1, #0
            BRn _____ (h)
            ADD _____ (i)
            BRn ADDING
            BRnzp EXIT
  ADDING    ADD R4, R1, R2
            BRn EXIT
  LABEL     ADD R0, R0, #1
  EXIT      LD R4, SAVER4
            RET


    NUM1    .BLKW 2
    NUM2    .BLKW 2
```

```
RESULT  .BLKW 2
SAVER4  .BLKW 1
```

8.15 (pg. 312)   Note: This problem would belong to chapter 9 rather than 8, as Exercise 9.56. Use the following specification of the question:
 Assume the following program initially executes in **user mode** with a priority of 0. The table is as follows:

MAR	MDR
	x5020
	xF0F0
	x4010
x2000	x71BF
x1FFD	
	x8000
	xF025

Chapter 9:

9.47 (pg. 368)   The code for this problem is incorrect. The correct code is stated below.

```
.ORIG x2055
ST R1, SaveR1
_____ (a)
TRAP x20
LD R1, A
_____ (b)
```

```
        TRAP x21
        _____  (c)
        LD R1, SaveR1
        RTI

A           .FILL _____  (d)

SaveR1      .BLKW 1

_____      .BLKW 1  (e)
```

9.48 (pg. 368)   The code starting at .ORIG x0100 is incorrect. The correct code is

```
        .ORIG x0100
        RTI
        ST R6, SP
        TRAP x02
        AND R1, R1, #0
        STR R1, R0, #3
        RTI
        AND R1, R1, #0
        STR R1, R0, #5
        TRAP x00
        RTI
    SP  .BLKW 1
        .END
```

9.50 (pg. 371) The code for this exercise is incorrect. The problem should be ignored.

9.54 (pg. 376)   Line b) is unnecessary in this code segment. Solve the problem ignoring line b)

Chapter 10:

10.9 (pg. 404)   The exercise is incorrectly stated and should be ignored.