**ERRATA SHEET**

**Chapter 3:**

3.13 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: 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. 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 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 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 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 The code for this exercise is incorrect. The problem should be ignored.  
  
9.54 Line b) is unnecessary in this code segment. Solve the problem ignoring line b)

**Chapter 10:**

10.9 The exercise is incorrectly stated and should be ignored.