

(15 pts) Exercise 1-1: After assigned reading from Ch. 1, do Problems 1.1.1-1.1.26 from the text. Follow example of the first one given below.

1.1.1 5, supercomputer

1.1.2

1.1.3

1.1.4

1.1.5

1.1.6

1.1.7

1.1.8

1.1.9

1.1.10

1.1.11

1.1.12

1.1.13

1.1.14

1.1.15

1.1.16

1.1.17

1.1.18

1.1.19

1.1.20

1.1.21

1.1.22

1.1.23

1.1.24

1.1.25

1.1.26

(5 pts) Exercise 2-1

- What is the MIPS assembly code for the following:
 $g = g + h - i$;
 Variables g , h , & i are assigned registers $\$s1$, $\$s2$, and $\$s4$

(5 pts) Exercise 2-2

- What is the MIPS assembly code for the following:
 $g = h + A[3]$;
 Variables g , h , & i are assigned registers $\$s1$, $\$s2$, and $\$s4$
 Array A base address is assigned register $\$s3$

(5 pts) Exercise 2-3

- What is the MIPS assembly code for the following:
 $g = h + A[i]$;
 Variables g , h , & i are assigned registers $\$s1$, $\$s2$, and $\$s4$
 Array A base address is assigned register $\$s3$

(extra space)

(10 pts) Exercise 2-4: Assume variables a, b, and c are assigned registers \$s1, \$s2, and \$s3, and the address of array A is in \$s6. Write the code for the following:

$b = A[1] - A[2];$

(10 pts) Exercise 2-5: Assume variables a, b, and c are assigned registers \$s1, \$s2, and \$s3, and the address of array A is in \$s6. Write the code for the following:

$b = A[2 * c];$