

1.

addi i, \$s2, -5

add \$s0, \$s1, i

2.

 $f = i + (g + h);$

3.

sub \$t0, \$s3, \$s4

sll \$t0, \$t0, 2

lw \$t1, 0(\$s6)

add \$t1, \$t1, \$t0

lw \$t1, 0(\$t1)

sw \$t1, 32(\$s7)

4.

big-endian

memory

low $\xrightarrow{\hspace{2cm}}$ high

ab | cd | ef | 12

little-endian

memory

low $\xrightarrow{\hspace{2cm}}$ high

12 | ef | cd | ab

5.

$$(10 \times 16^7) + (11 \times 16^6) + (12 \times 16^5) + (13 \times 16^4)$$

$$+ (14 \times 16^3) + (15 \times 16^2) + (1 \times 16^1) + (2 \times 16^0)$$

$$= 2882400018$$