Avaliação Final - Arquitetura de Computadores I

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Questão 01

add \$s4, \$s4, \$s5

b)
$$f = e - (a - b) + (b - c)$$

addi \$s0, \$zero, 15 addi \$s1, \$zero, 10 add \$s2, \$zero, 5 addi \$s4, \$zero, 10 sub \$t1, \$s0, \$s1 sub \$t1, \$s4, \$t1 sub \$ t2, \$ s1, \$ s2 add \$s5, \$t1, \$t2

c) a = b [15] - c;

.data
b: .word 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
.text
la \$s1, b

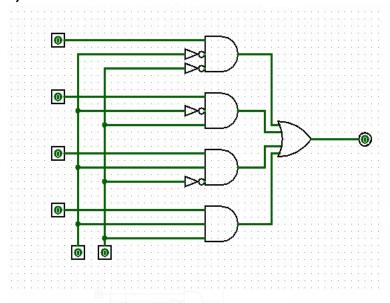
addi \$s2, \$zero, 9 addi \$t1, \$zero, 15 add \$t2, \$t1, \$t1 add \$t2, \$t2,\$t2 add \$t2, \$t2, \$s1 lw \$t3, 0(\$t2) sub \$s0, \$t3, \$s2

d) a [10] = b - c;

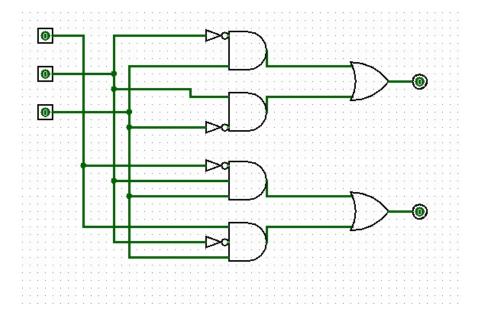
.data
a: .word 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
.text
la \$s0, a
addi \$s1, \$zero, 14
addi \$s2, \$zero, 9
sub \$t2, \$s1, \$s2
sw \$t2, 10(\$s0)

Questão 02:

a)



b)



Questão 03

O Benvert alterna o circuito entre o meio **somador** e **subtrator**.

Somador - Binv = 0 Subtrator - Binv = 1