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Curso: GEC	Período: P8	Matéria: T106

Array

1.

```
.data
a: .word 2
b: .word 6
c: .word 10

.text
la $s1, a
la $s2, b
la $s3, c
li $t2, 20 # a = 20
li $t3, 10 # b = 10
li $t4, 5 # c = 5

# 1
sub $t1, $t3, $t4 # $t1 = b-c
sw $t1, 40($s1) # a[10] = $t1

# 2
add $t5, $t2, $t3 # $t5 = a+b
sw $t5, 980($s2) # b[245] = $t5

# 3
sub $t6, $t3, $t2 # $t1 = b-c
sw $t6, 0($s3) # c[0] = $t6
```

2.

```
.data
a: .word 2
b: .word 6
c: .word 10

.text
la $s1, a
la $s2, b
la $s3, c
li $t2, 20 # a = 20
li $t3, 10 # b = 10
li $t4, 5 # c = 5

lw $t0, 60($s2)      # $t0 = b[15]
sub $t1, $t3, $t4    # b - c
add $s0, $0, $t1     # a = b[15] - c

lw $t5, 20($s1)      # $t5 = a[5]
lw $t6, 12($s3)      # $t6 = c[3]
add $t7, $t2, $t3    # $t7 = a[5] + c[3]
add $s4, $0, $t7     # b = a[5] + c[3]

lw $t8, 84($s1)      # $t5 = a[21]
sub $t9, $t3, $t8    # $t8 = b - a[21]
add $s5, $0, $t8     # c = b - a[21]
```

3.

```
.data #0x10010000
a: .word 4,5

.text #0x00400000

la $s1, a #s1 = 0x10010000
sw $t1, 0($s1)
sw $t2, 4($s1)
li $t1, 4
li $t2, 5
li $s0, 0 #j=0

while: blt $s1, 5, IF #a[0] < 5
addi $s0, $t1, 10
j exit

IF:
    addi $t2, $s0, 2
    j while

exit:
```