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Curso: GEC	Período: P8	Matéria: C208

# Atividade 14/10

1.

a.

Passos	\$t0	\$t1	\$t2
1	3	0	0
2	3	1	0
3	3	1	4

b. Esse programa realiza a soma entre \$t0 e \$t1 e guarda em \$t2, onde os valores
 3 e 1 foram adicionados a \$t0 e \$t1, através do comando addi e posteriormente somados pelo comando add

2.

a.

```
.text
# $t1 = f
# $t2 = g

addi $t1,$0,5
addi $t2,$0,3
add $t3,$t1,$t2
```

b.

Passos	\$t1	\$t2	\$t3
1	5	0	0
2	5	3	0
3	5	3	8

c.

```
# $t1 = g

# $t2 = h

# $t3 = i

# $t4 = j

addi $t1,$0,3

addi $t2,$0,5

addi $t2,$0,5

addi $t3,$0,2

addi $t4,$0,1

add $s1,$t1,$t2 #g+h

add $s2,$t3,$t4 #i+j

sub $s3,$s1,$s2
```

```
d.
         .text
          addi $t1,$0,3
          addi $t2,$0,2
          mul $s1,$t1,$t2
4.
   .text
   addi $t1,$0,5 # b
   addi $t2,$0,10 # B
   addi $t3,$0,2 # h
   add $s1,$t1,$t2 # b+B
   mul $s2,$s1,$t3 # (b+B)*h
   div $s3,$s2,2 # (b+B)*h/2
5.
   .text
   li $t1,54
   li $t2,85
   li $t3,12
   li $t4,64
   li $t5,35
   li $t6,16
   li $t7,64
   and $s1,$t1,67 # 54 and 67
   and $s2,$t2,91 # 85 and 91
   or $s3,$t3,48 # 12 or 48
   or $s4,$t4,40 # 64 or 40
   xor $s5,$t5,45 # 35 xor 45
   srl $s6,$t6,2 # 16 >> 2
   sl1 $s7,$t7,2 # 64 << 2
```

### Considere a seguinte parte do programa em linguagem Assembly MIPS

## Complete os quadros abaixo considerando as váriaveis declaradas no código.

# .data

a: .half 7,10

b: .byte 5

c: .byte 50

d: .word 0x86

e: .byte 0x90

f: .ascii "C63S"

g: .word 15

h: .half 14,15

i: .byte 8

Endereço	Dado
0x10010000	0x000a0007
0x10010004	0x00320005
0x10010008	0x00000086
0x1001000C	0xS36C90
0x10010010	0x000000F
0x10010014	0x000F000E
0x10010018	0x00000008
0x1001001C	

9.

### a) sw \$s3, 8(\$t0)

REGISTRADOR		
ENDEREÇO	DADO	
\$t0		
\$t1		
\$t2		
\$t3		
\$t4		
\$t5		
\$t6		
\$t7		
\$s0		
\$s <b>1</b>		
\$s2		
\$s3		

.word 32 \$s3 0xa83fc12e \$t0 0x10010008

MEMÓRIA		
ENDEREÇO	DADO	
0x10010000		
0x10010001		
0x10010002		
0x10010003		
0x10010004		
0x10010005		
0x10010006		
0x10010007		
0x10010008	0x2e	
0x10010009	0xc1	
0x1001000A	0x3f	
0x1001000B	0xa8	

b) lw \$t2, 4(\$t6)

REGISTRADOR		
ENDEREÇO	DADO	
\$t0		
\$t1		
\$t2	0x9CF85E15	
\$t3		
\$t4		
\$t5		
\$t6		
\$t7		
\$s0		
\$s1		
\$s2		
\$s3		

.word 32 \$t2 0x00000008 4\$t6 0x10010008

MEMÓRIA		
ENDEREÇO	DADO	
0x10010000		
0x10010001		
0x10010002		
0x10010003		
0x10010004		
0x10010005		
0x10010006		
0x10010007		
0x10010008		
0x10010009		
0x1001000A		
0x1001000B		

## c) lh \$t5, 6(\$t0)

REGISTRADOR		
ENDEREÇO	DADO	
\$t0		
\$t1		
\$t2		
\$t3		
\$t4		
\$t5	0x8650	
\$t6		
\$t7		
\$50		
\$51		
\$52		
\$53		

.half 16 \$t5 0x00000096 6\$t0 0x10010006

MEMÓRIA		
ENDEREÇO	DADO	
0x10010000		
0x10010001		
0x10010002		
0x10010003		
0x10010004		
0x10010005		
0x10010006		
0x10010007		
0x10010008		
0x10010009		
0x1001000A		
0x1001000B		

## d) sb \$s0, 0(\$t3)

REGISTRADOR		
ENDEREÇO	DADO	
\$t0		
\$t1		
\$t2		
\$t3		
\$t4		
\$t5		
\$t6		
\$t7		
\$50		
\$s1		
\$s2		
\$s3		

.byte 8 \$s0 0x0000006B 0\$t3 0x10010006

MEMÓRIA		
ENDEREÇO	DADO	
0x10010000		
0x10010001		
0x10010002		
0x10010003		
0x10010004		
0x10010005		
0x10010006	0x6B	
0x10010007		
0x10010008		
0x10010009		
0x1001000A		
0x1001000B		