

QtSpim

File Simulator Registers Text Segment Data Segment Window Help

FP Regs Int Regs [16] Data Text

Int Regs [16]

PC = 4000fc
EPC = 0
Cause = 0
BadVAddr = 0
Status = 3000ff10

HI = 0
LO = 0

R0 [r0] = 0
R1 [at] = 10010000
R2 [v0] = a
R3 [v1] = 0
R4 [a0] = b
R5 [a1] = 1001000c
R6 [a2] = 7ffff620
R7 [a3] = 0
R8 [t0] = 0
R9 [t1] = b
R10 [t2] = 0
R11 [t3] = 0
R12 [t4] = 0
R13 [t5] = 0
R14 [t6] = 10010034
R15 [t7] = 10010034
R16 [s0] = 10010034

User data segment [10000000]..[10040000]

[10000000]..[1000ffff] 00000000
[10010000] 61727241 73692079 0000203a 00000001 A r r a y i s :
[10010010] 00000002 00000008 00000007 00000002
[10010020] 00000000 00000003 00000000 00000000
[10010030]..[1001005b] 00000000
[1001005c] 000a002c
[10010060] 20656854 206d7573 7420666f 6f206568 T h e s u m o f t h e
[10010070] 76206464 65756c61 6e692073 65687420 d d v a l u e s i n t
[10010080] 72726120 69207961 00203a73 0000000a a r r a y i s : . . .
[10010090] 00000002 00000000 00000000 00000000
[100100a0]..[1003ffff] 00000000

User Stack [7ffff610]..[80000000]

[7ffff610] 00000002 7ffff6ed 7ffff6d2 00000000
[7ffff620] 7fffffe1 7fffffb9 7fffff82 7fffff46 F .
[7ffff630] 7fffff15 7fffff00 7ffffedc 7ffffeaa

Memory and registers cleared

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Proj2S - Notepad

File Edit Format View Help

```
# Andrew Donovan
# CPE 380 Proj2
# 10/26/2019
.data

ArrNA: .asciiz "Array is: "

ArrA: .word 1, 2, 8, 7, 2, 0, 3, 0, 0, 0

arrend:

OddArr: .word 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

format: .asciiz ", "
newline: .asciiz "\n"

odd_Output: .asciiz "The sum of the odd values in the array is: "

SIZE: .word 10

DIVSOR: .word 2

.text

print_Arr:

move $s0, $a1

li $t0, 0

la $t1, SIZE
lw $t1, ($t1)
sub $t1, $t1, 1

print_loop:

bgt $t0, $t1, end_loop

lw $a0, ($s0)
li $v0, 1
syscall

beq $t0, $t1, no_form

la $a0, format
li $v0, 4
syscall

no_form:

addi $s0, $s0, 4
addi $t0, $t0, 1
j print_loop

end_loop:

la $a0, newline
li $v0, 4
syscall

jr $ra

main:
```

Console

```
Array is: 1,2,8,7,2,0,3,0,0,0
The sum of the odd values in the array is: 11
```

