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Clayton, CS 2318-004, Assignment 2 Part 1C
This program takes an array of intergers, swaps around values and prints
out the reversed and swapped array
               .data
intArr:
               .word 111, 222, 333, 444
               .asciiz ", "
seperator:
arrOutput:
              .asciiz "Here are the array contents: "
arrOutputRev: .asciiz "Here are the array contents swapped & reversed: "
swapMsg:
               .asciiz "swapping... \n"
               .text
               .globl main
main:
#print arr
               li $v0, 4
               la $a0, arrOutput
               syscall #initial label
               li $v0, 1
               la $a0, intArr
               lw $t0, 0($a0)
               move $a0, $t0
               syscall # arr[0]
               li $v0, 4
               la $a0, seperator
               syscall
               li $v0, 1
               la $a0, intArr
               lw $t0, 4($a0)
               move $a0, $t0
               syscall # arr[1]
               li $v0, 4
               la $a0, seperator
               syscall
               li $v0, 1
               la $a0, intArr
               lw $t0, 8($a0)
               move $a0, $t0
               syscall # arr[2]
               li $v0, 4
               la $a0, seperator
               syscall
               li $v0, 1
               la $a0, intArr
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lw \$t0, 12(\$a0)

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move $a0, $t0
               syscall # arr[3]
               li $v0, 11
               li $a0, '\n'
               syscall
               li $v0, 4
               la $a0, swapMsg
               syscall
               la $a0, intArr
               lw $t0, 0($a0)
               lw $t1, 8($a0)
               sw $t0, 8($a0)
               sw $t1, 0($a0)
               lw $t0, 4($a0)
               lw $t1, 12($a0)
               sw $t0, 12($a0)
               sw $t1, 4($a0)
#print arr swapped and reversed
               li $v0, 4
               la $a0, arrOutputRev
               syscall #initial label
               li $v0, 1
               la $a0, intArr
               lw $t0, 12($a0)
               move $a0, $t0
               syscall # arr[0]
               li $v0, 4
               la $a0, seperator
               syscall
               li $v0, 1
               la $a0, intArr
               lw $t0, 8($a0)
               move $a0, $t0
               syscall # arr[1]
               li $v0, 4
               la $a0, seperator
```

syscall

li \$v0, 1

#swap arr

la \$a0, intArr
lw \$t0, 4(\$a0)
move \$a0, \$t0
syscall # arr[2]
li \$v0, 4
la \$a0, seperator
syscall

li \$v0, 1
la \$a0, intArr
lw \$t0, 0(\$a0)
move \$a0, \$t0
syscall # arr[3]

li \$v0, 10 syscall

Output:

Here are the array contents: 111, 222, 333, 444 swapping...

Here are the array contents swapped & reversed: 222, 111, 444, 333 -- program is finished running --