Laboratory Session 3

Conditional Execution

1.

a/

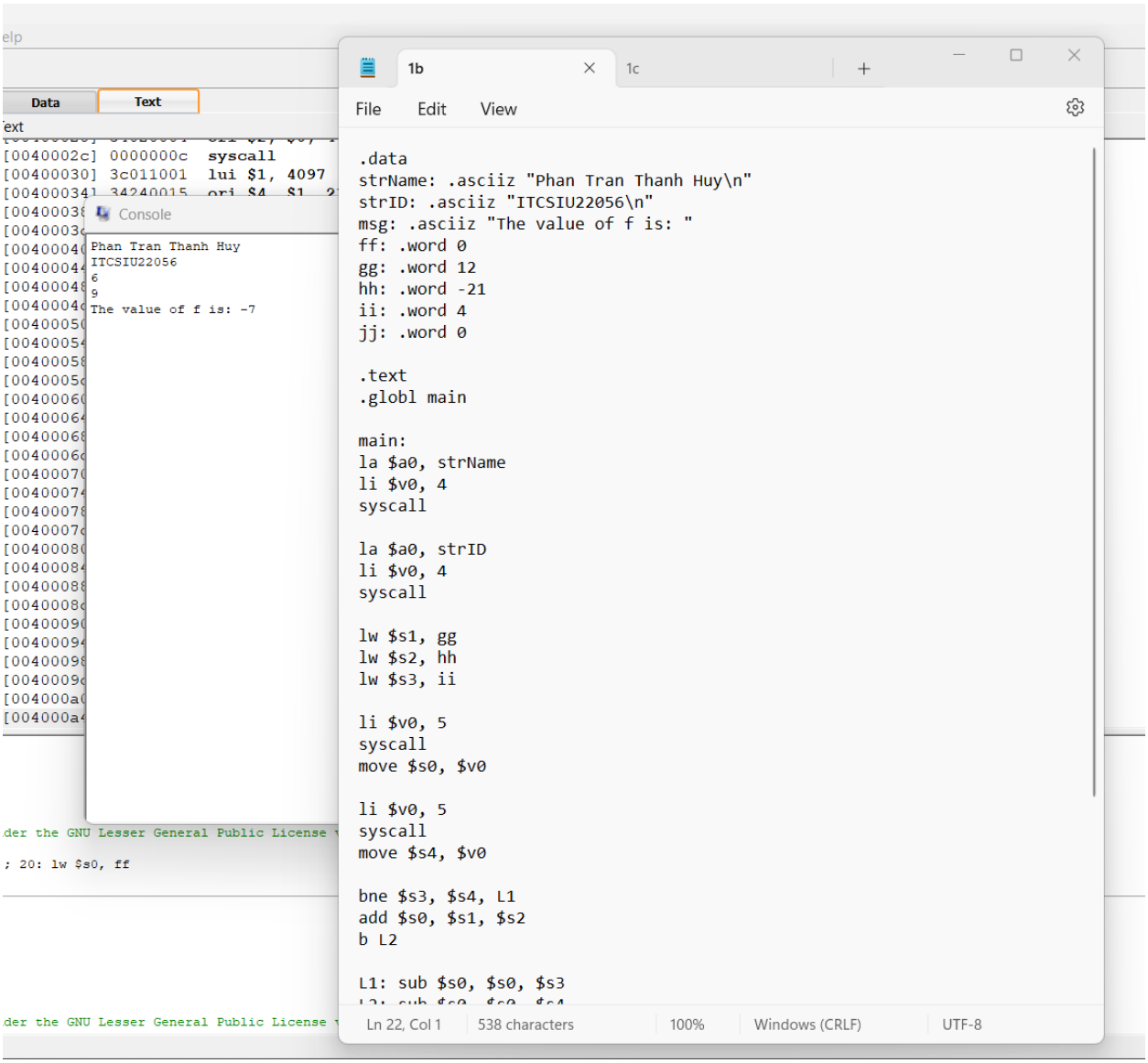
If(s3 != s4)

S0 -= s3

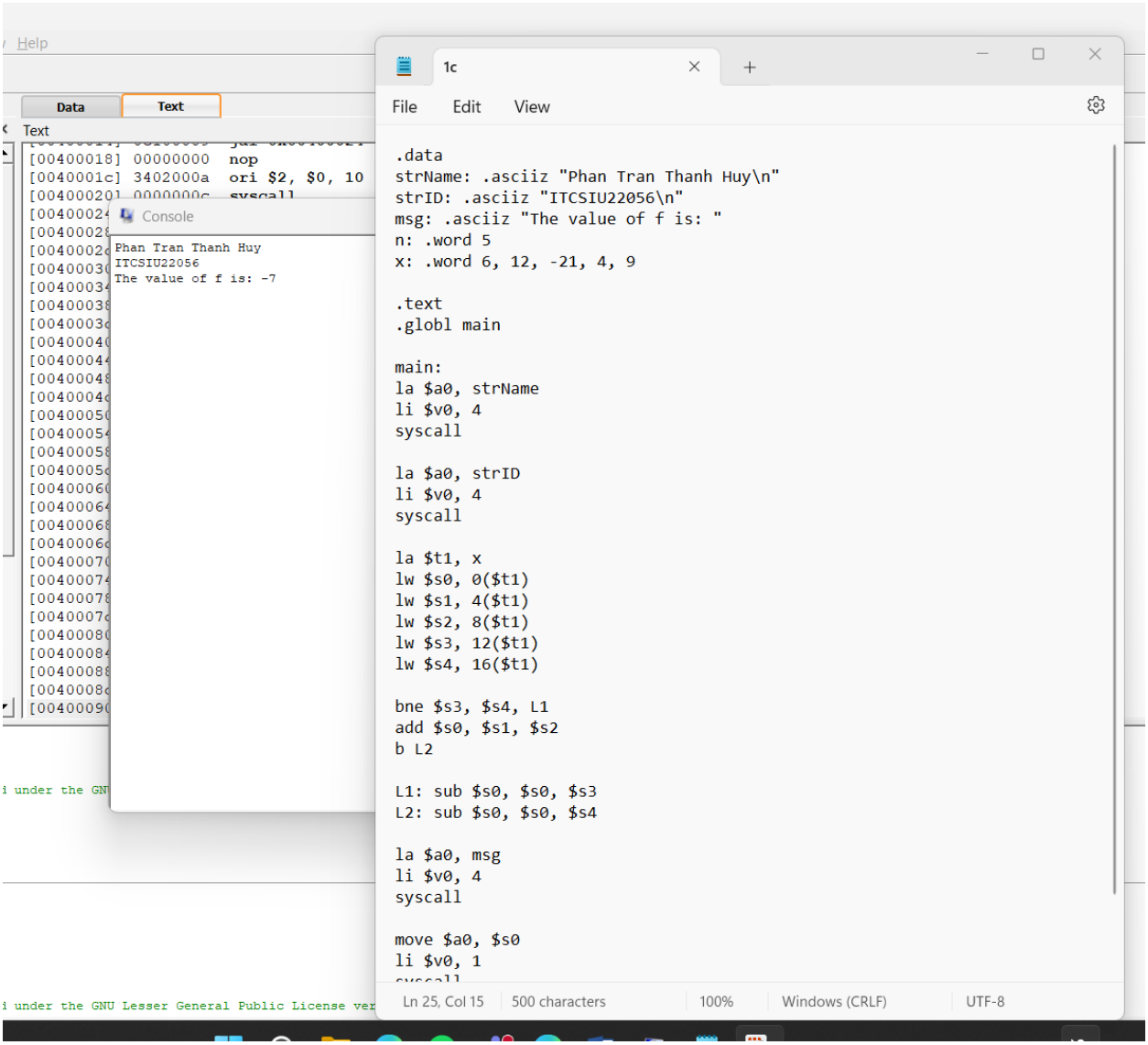
Else s0 = s1 + s2

S0 -= s4

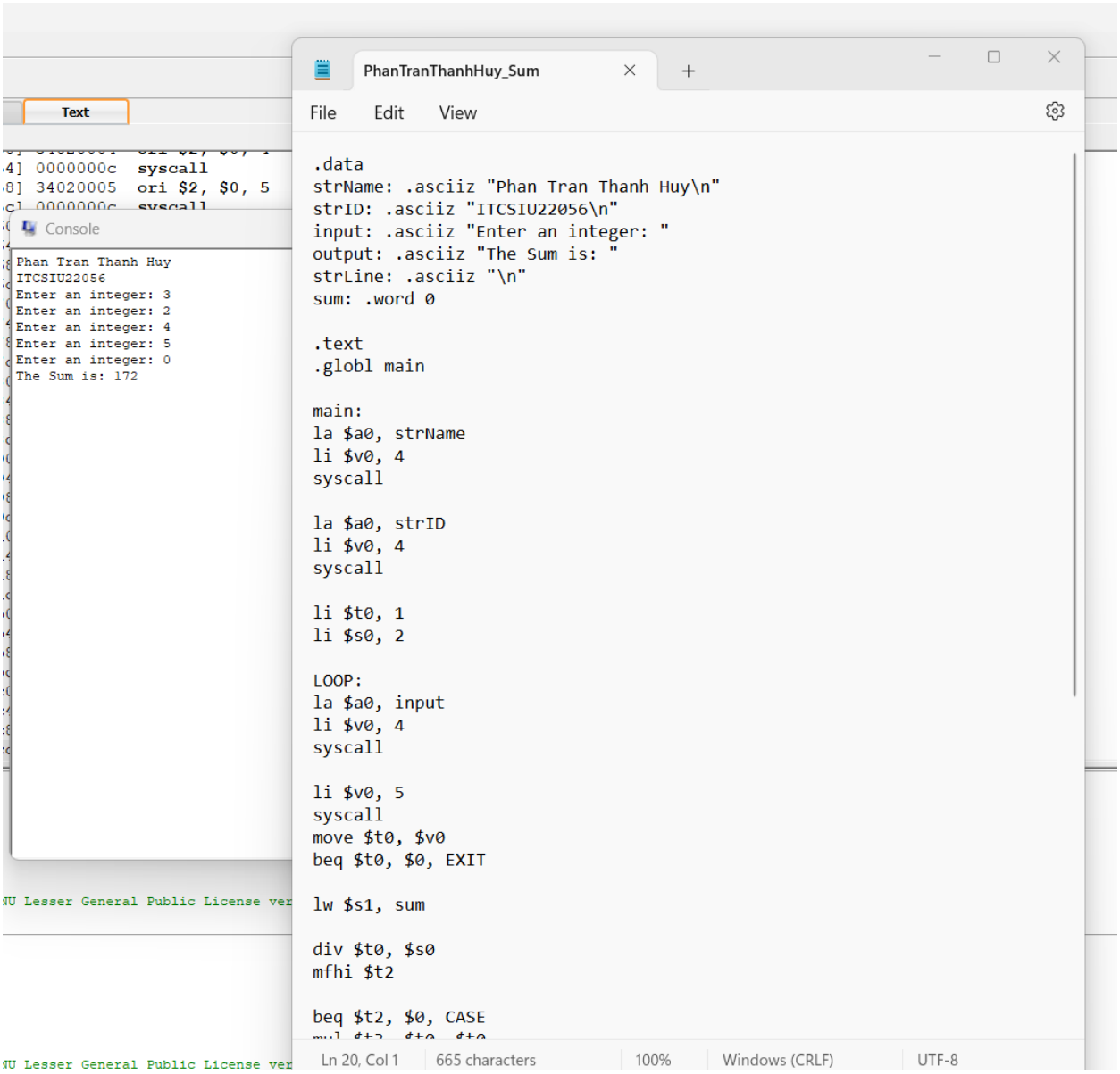
b/



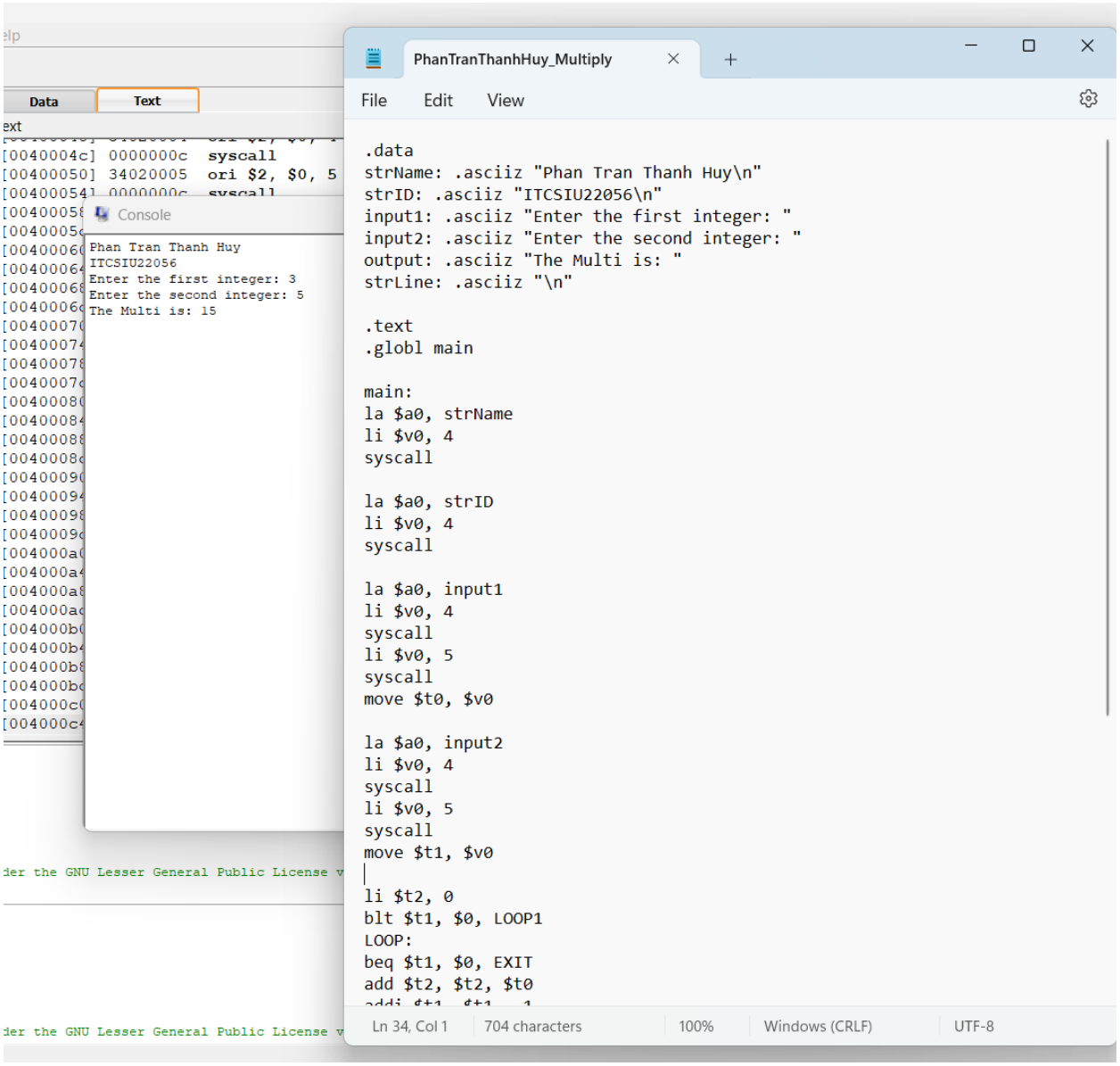
c/


Help
Data
Text
Text
[00400018] 00000000 nop
[0040001c] 3402000a ori $2, $0, 10
Console
Phan Tran Thanh Huy
ITCSIU22056
The value of f is: -7
1c
File
Edit
View
.data
strName: .asciiz "Phan Tran Thanh Huy\n"
strID: .asciiz "ITCSIU22056\n"
msg: .asciiz "The value of f is: "
n: .word 5
x: .word 6, 12, -21, 4, 9
.text
.globl main
main:
la $a0, strName
li $v0, 4
syscall
la $a0, strID
li $v0, 4
syscall
la $t1, x
lw $s0, 0($t1)
lw $s1, 4($t1)
lw $s2, 8($t1)
lw $s3, 12($t1)
lw $s4, 16($t1)
bne $s3, $s4, L1
add $s0, $s1, $s2
b L2
L1: sub $s0, $s0, $s3
L2: sub $s0, $s0, $s4
la $a0, msg
li $v0, 4
syscall
move $a0, $s0
li $v0, 1
Ln 25, Col 15
500 characters
100%
Windows (CRLF)
UTF-8

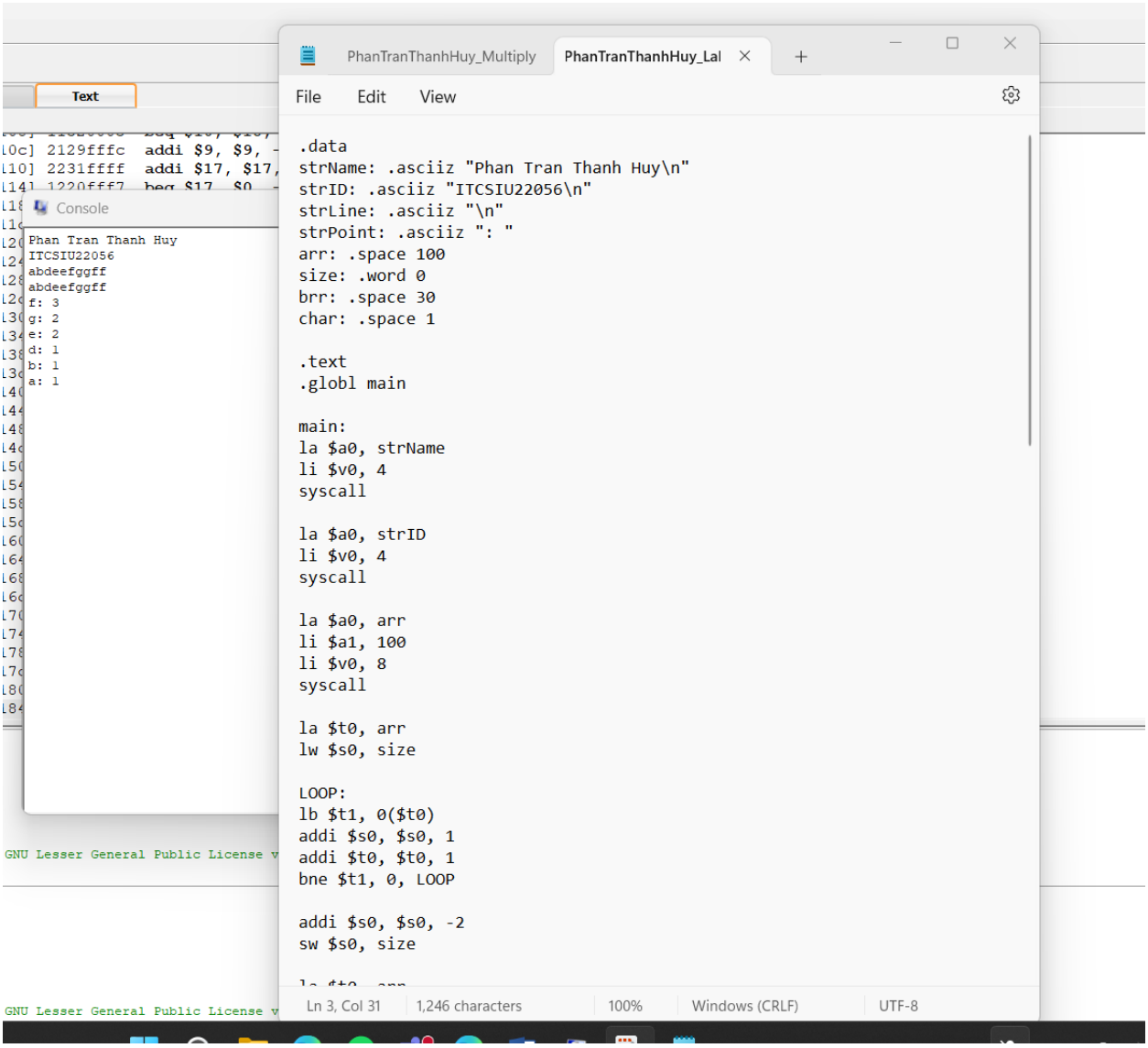
2. Sum function



3. Multiplication Function



4.


Text
Console
Phan Tran Thanh Huy
ITCSIU22056
abdeefggff
abdeefggff
f: 3
g: 2
e: 2
d: 1
b: 1
a: 1
GNU Lesser General Public License v
PhanTranThanhHuy_Multiply
PhanTranThanhHuy_Lal
File
Edit
View
.data
strName: .asciiz "Phan Tran Thanh Huy\n"
strID: .asciiz "ITCSIU22056\n"
strLine: .asciiz "\n"
strPoint: .asciiz ": "
arr: .space 100
size: .word 0
brr: .space 30
char: .space 1
.text
.globl main
main:
la $a0, strName
li $v0, 4
syscall
la $a0, strID
li $v0, 4
syscall
la $a0, arr
li $a1, 100
li $v0, 8
syscall
la $t0, arr
lw $s0, size
LOOP:
lb $t1, 0($t0)
addi $s0, $s0, 1
addi $t0, $t0, 1
bne $t1, 0, LOOP
addi $s0, $s0, -2
sw $s0, size
Ln 3, Col 31
1,246 characters
100%
Windows (CRLF)
UTF-8

5. While conditional statement