.data

array: .word 0:100 # array of 100 integers

comma: .asciiz " , "

print: .asciiz "The Array: "

.text

li $v0, 4

la $a0, print

syscall

li $t0, 0 # $t0 is the loop induction variable

li $t5, 100 # $t5 is the sentinal value for the loop

la $t1, array # $t1 starts as the base address of the array

# and is the address of each element

li $t4, 1 # $t4 is the value 18, to be put in desired element

for: bge $t0, $t5, end\_for

sw $t4, ($t1)

add $t1, $t1, 4 # get address of next array element

add $t0, $t0, 1 # increment loop induction variable

#print array element

li $v0, 1

move $a0, $t4

syscall

#Printing comma

li $v0, 4

la $a0, comma

syscall

addi $t4, $t4, 1 #incrementing array element value

b for

end\_for:

exit:

li $v0, 10

syscall