.data

.text

.globl main

main:

li $v0, 5

syscall

sw $v0, num1

li $v0, 4

la $a0, prompt\_msg

syscall

li $v0, 5

syscall

sw $v0, num2

li $v0, 4

la $a0, prompt\_msg

syscall

li $v0, 5

syscall

sw $v0, num3

li $v0, 4

la $a0, prompt\_msg

syscall

li $v0, 5

syscall

sw $v0, num4

li $v0, 4

la $a0, prompt\_msg

syscall

li $v0, 5

syscall

sw $v0, num5

lw $t0, num1

lw $t0, num2

lw $t0, num3

lw $t0, num4

lw $t0, num5

li $t0, 0

la $t1, array

la $t2, n

li $t3, 1

add $t5, $t2, $zero

sub $t5, $t5, $t0

lw $t4, ($t1)

add $t6, $t1, $t3

lw $t7, ($t6)

bge $t7, $t4, skip\_swap

sw $t7, ($t1)

sw $t4, ($t6)

lw $a0, ($t1)

li $v0, 1

syscall

li $v0, 4

la $a0, space

syscall

addi $t0, $t0, 1

addi $t1, $t1, 4

j print\_loop

li $t3, 1

add $t5, $t2, $zero

sub $t5, $t5, $t0

lw $t4, ($t1)

add $t6, $t1, $t3

lw $t7, ($t6)

ble $t7, $t4, skip\_reverse\_swap

sw $t7, ($t1)

sw $t4, ($t6)

lw $a0, ($t1)

li $v0, 1

syscall

li $v0, 4

la $a0, space

syscall

addi $t0, $t0, 1

addi $t1, $t1, 4

j reverse\_print\_loop

li $v0, 10

syscall