

## IT012-Lab05

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### 3. Bài tập (chỉ sử dụng con trỏ)

a.

#### Source Code:

```
.data
```

```
xuongdong : .asciiz " \n"
```

```
max: .asciiz "Max = "
```

```
min: .asciiz "Min = "
```

```
sum: .asciiz "Sum = "
```

```
vt: .asciiz "F["
```

```
vt2: .asciiz "]" = "
```

```
mangso: .word 100
```

```
.text
```

```
li $v0, 5
```

```
syscall
```

```
move $s0, $v0
```

```
move $s1, $s0
```

```
la $t0, mangso
```

```
addi $s3, $s3, 99999999
```

```
do1:
```

```
beq $s1, 0, ndo1
```

```
li $v0, 5
```

syscall

sw \$v0, (\$t0)

addi \$t0,\$t0,4

addi \$s1,\$s1,-1

add \$s4,\$s4,\$v0

blt \$v0,\$s2,skip1

move \$s2,\$v0

skip1:

bgt \$v0,\$s3,skip2 #cập nhật min

move \$s3,\$v0 #s3 lưu min

skip2:

j do1

ndo1:

li \$v0, 4

la \$a0, max

syscall

li \$v0, 1

move \$a0, \$s2

syscall

li \$v0, 4

```
la $a0, xuongdong  
syscall
```

```
li $v0, 4  
la $a0, xuongdong  
syscall
```

```
li $v0, 4  
la $a0, min  
syscall
```

```
li $v0, 1  
move $a0, $s3  
syscall
```

```
li $v0, 4  
la $a0, xuongdong  
syscall
```

```
li $v0, 4  
la $a0, sum  
syscall
```

```
li $v0, 1  
move $a0, $s4  
syscall
```

```
li $v0, 4
la $a0, xuongdong
syscall
```

```
li $v0, 5
syscall
move $s5, $v0
```

```
li $v0, 4
la $a0, vt
syscall
```

```
li $v0, 1
move $a0, $s5
syscall
```

```
li $v0, 4
la $a0, vt2
syscall
```

```
mul $s5, $s5, 4
la $t0, mangso
add $t0, $t0, $s5
```

```
li $v0, 1
lw $a0, ($t0)
syscall
```

**b**

**Source Code:**

```
blt $s0, $s1, do
mul $s4, $s0, 4
add $s3, $s3, $s4
sw $s1, ($s3)
j endif
do:
mul $s4, $s0, 4
add $s3, $s3, $s4
sw $s0, ($s3)
endif:
```