

Correction TP 3

Solution exercice 1 :

```
.data
    nombre1 : .word
    nombre2 : .word

.text
li $v0, 5
syscall
move $t0, $v0

li $v0, 5
syscall
move $t1, $v0

add $t2, $t0, $t1

li $v0, 1
move $a0, $t2
syscall
```

Solution exercice 2

```
.data
    nombre1 :.word 45
    nombre2: .word 60
    message : .ascii "le plus grand nombre est : \n"

.text
lw $t1, nombre1
lw $t2, nombre2

bgt $t1, $t2, grand
move $t3, $t2
b sinon

grand : move $t3, $t1

sinon :

li $v0, 4
la $a0, message
syscall

move $a0, $t3
li $v0, 1
syscall
```

Solution exercice 3

```
data
    nombre1 :.word
    nombre2: .word
```

```
message : .ascii "le plus grand nombre est : \n"
```

```
.text
```

```
li $v0, 5
```

```
syscall
```

```
move $t1, $v0
```

```
li $v0, 5
```

```
syscall
```

```
move $t2, $v0
```

```
bgt $t1, $t2, grand
```

```
move $t3, $t2
```

```
b sinon
```

```
grand : move $t3, $t1
```

```
sinon :
```

```
li $v0, 4
```

```
la $a0, message
```

```
syscall
```

```
move $a0, $t3
```

```
li $v0, 1
```

```
syscall
```

Solution exercice 4 :

```
.data
```

```
message : .ascii " \n"
```

```
.text
```

```
li $v0, 5 # $t0 stocke le nombre A
```

```
syscall
```

```
move $t0, $v0
```

```
li $v0, 5 # $t0 stocke le nombre B
```

```
syscall
```

```
move $t1, $v0
```

```
blez $t1, terminer # si b <= 0 aller à terminer
```

```
mul $t2, $t0, $t1 # mettre le produit de nombre A et de nombre B (S) dans $t2
```

```
move $t3, $t0 # mettre la valeur de nombre A (m) dans $t3
```

```
calcul :
```

```
move $a0, $t3
```

```
li $v0, 1
```

```
syscall
```

```
li $v0, 4
```

```
la $a0, message
```

```
syscall
```

```
beq $t3,$t2, terminer  
add $t3, $t3,$t0  
b calcul
```

```
terminer : #cette instruction termine le programme  
li $v0, 10  
syscall
```