·Selection_sort

```
.data
  mensaje: .asciiz "ingrese numero"
  esp:  .asciiz " "
  .align 2
  array: .space 20
.text
main:
  la $s0, array
  li $s1, 0      #i
  li $s2, 5      #n
llenar:
  beq $s1, $s2, reset
  li $v0 4
  la $a0, mensaje
  syscall
  li $v0, 5
  syscall
  sw $v0, 0($s0)
  addi $s0, $s0, 4
  addi $s1, $s1, 1
  j llenar

reset:
  Li $s1, 0      #i=0
  Li $s7, 4      #n-1
```

```
for_ext:
  beq $s1, $s7, reset2
  move $t0, $s1   # min_idx <- i
  addi $t1, $s1, 1 # j <- i+1

for_int:
  li $t8 ,5   #n
  beq $t1, $t8 swap
  mul $t2 , $t1, 4
  la  $s0, array
  add $s3, $s0, $t2
  lw $t4, 0($s3) # $t4 <- arr[j]
  mul $t3, $t0, 4
  add $s4, $s0, $t3
  lw $t5, 0($s4) # $t5 <- arr[min_idx]
  bge $t4, $t5 , next_j
  move $t0, $t1

next_j:
  addi $t1, $t1, 1
  j for_int

swap:
  mul $t2, $s1, 4
  la  $s0 array
  add $s3, $s0, $t2 # div de arr[i]
  lw  $t4, 0($s3)  # valor de arr[i]
```

```
mul $t3, $t0,4
add $s4, $s0, $t3. # Dir arr[min_idx]
lw $t5, 0($s4)  # valor arr[min_idx]
sw $t5, 0($s3)  # arr[i] <- valor min
sw $t4, 0($s4)  #arr[min_idx] <- valor i
addi $s1, $s1, 1
j for-ext


reset2:
la $s0, array
Li $s1, 0
Li $s2, 5
imprimir:
beq $s1, $s2, exit
lw $a0, 0($s0)
li $v0, 1
syscall
Li $v0, 4
La $a0, esp
syscall
addi $s0, $s0, 4
addi $s1, $s1, 1
j imprimir

exit:
Li $v0, 10
syscall
```