```
; Main loop here
;-----
;COMPARA R5 COM R6 SE R5 FOR MENOR DIVIDA R6 POR 2 ATÉ R5 FICAR MAIOR
         mov.w #5,R5
                 #24,R6
         mov.w
                 R6,R5 ;comparar R5(Referencia) com R6
LOOP:
         cmp.w
         jhs
                 FIM
MENOR:
         rra
                      R6
                                ;R6/2
                      L00P
         jmp
FIM:
         jmp
;-----
; Main loop here
;-----
ordv:
             mov
                      #vetor,R5
             call
                      #loop
loop:
             mov
                      #5,R9
                      #2,R6
             mov
             clr
                      R5
             call #ordena
                      #2,R5
ordena:
             add
             add
                      #2,R6
                      vetor(R5), vetor(R6)
             cmp
             jlo
                      troca1
             dec
                      R9
                      ordena
             jnz
             nop
             nop
             jmp
                      $
troca1:
                      vetor(R5),R7
             mov
                      vetor(R6),R8
             mov
                      R8, vetor(R5)
             mov
             mov
                       R7, vetor(R6)
             call #loop
         .data
vetor:
        .word 4,9,6,4,3
```

;-----

```
;-----
; Main loop here
;-----
vetLN:
             mov.b
                      #vetor,R5
             call
                      #loop
loop:
             clr
                          R5
                     #1,R6
             mov.b
             mov.b
                     #21,R9
             call
                      #ordena
ordena:
             add.b
                     #1,R5
             add.b
                      #1,R6
                      vetor(R5), vetor(R6)
             cmp.b
             jlo
                          troca
             dec
                          R9
                          ordena
             jnz
                          $
             jmp
troca:
             mov.b
                      vetor(R5),R7
                      vetor(R6),R8
             mov.b
                      R8, vetor(R5)
             mov.b
                      R7, vetor(R6)
             mov.b
                      #loop
             call
             .data
vetor: .byte 21,"DANIELMORAES180112333"
```

```
;------
; Main loop here
                             #vetor,R5
ex1:
                 mov.b
                 mov.b
                             #1,R8
                             #12,R11
                 mov.b
                 clr
                                   R7
                             #1,R9
                 mov.b
                 call
                             #MENOR
MENOR:
                 add.b
                             #1,R9
                             vetor(R8), vetor(R9)
                 cmp.b
                 jlo
                             conta
                 jeq
                             conta
                 dec
                             R11
                             MENOR
                 jnz
                 call
                             #part2
conta:
                 mov.b
                             vetor(R9),R6
                 mov.b
                             vetor(R8),R5
                             R6, vetor(R8)
                 mov.b
                             R5, vetor(R9)
                 mov.b
                             vetor(R8),R6
                 mov.b
                 add.b
                             #1,R7
                             #MENOR
                 call
part2:
                 mov.b
                             #2,R8
                             #12,R11
                 mov.b
                             #2,R9
                 mov.b
                 call
                             #repets
repets:
                 add.b
                             #2,R9
                             vetor(R9),R12
                 mov.b
                             vetor(R8),R13
                 mov.b
                 sub.b
                             R12,R13
                 jnz
                                   cont
                             #1,R7
                 mov.b
                 call
                             #cont
cont:
                 dec
                             R11
                 jnz
                             repets
                 jmp
           .data
                      12, "DANIELMORAES"
vetor:
           .byte
```

```
;-----
; Main loop here
                                  #vetor,R5
ex1:
                       mov
                                   #2,R8
                       mov
                                   #8,R11
                       mov
                                   R7
                       clr
                       mov
                                   #2,R9
                       call #MAIOR16
MAIOR16:
                       add
                                   #2,R9
                                   vetor(R8), vetor(R9)
                       cmp
                       jhs
                                   conta
                       dec
                                   R11
                       jnz
                                   MAIOR16
                            #part2
                       call
conta:
                       mov
                                   vetor(R9),R6
                       mov
                                   vetor(R8),R5
                       mov
                                   R6, vetor(R8)
                                   R5, vetor(R9)
                       mov
                                   vetor(R8),R6
                       mov
                       call #MAIOR16
part2:
                                   R7
                       clr
                       mov
                                  #2,R8
                       mov
                                   #8,R11
                                   #2,R9
                       mov
                       call
                            #repets
repets:
                       add
                                   #2,R9
                       mov
                                   vetor(R9),R12
                                   vetor(R8),R13
                       mov
                       sub
                                   R12,R13
                                   cont
                       jnz
                       mov
                                   #1,R7
                       call
                            #cont
cont:
                       dec
                             R11
                       jnz
                                   repets
                       jmp
                                   $
                       .data
                                  6, "DANIELMORASS", 0
vetor:
                       .word
```

```
;-----
; Main loop here
;-----
ordv:
             mov.b
                       #vetor,R5
             call
                       #loop
loop:
             mov.b
                       #12,R9
             mov.b
                       #1,R6
             clr
             call
                       #ordena
                      #1,R5
ordena:
             add.b
                      #1,R6
             add.b
                       vetor(R5), vetor(R6)
              cmp.b
             jlo
                           troca1
                           R9
             dec
                           ordena
              jnz
             jmp
                       $
troca1:
                       vetor(R5),R7
             mov.b
                       vetor(R6),R8
             mov.b
                       R8, vetor(R5)
             mov.b
                       R7, vetor(R6)
             mov.b
              call
                       #loop
              .data
                      12, "DANIELMORAES"
vetor:
              .byte
```

#8,R11

mov.b

```
clr
                                                R9
                                                R8
                    clr
                    call
                                         #loop
loop:
                    add.b
                                         #1,R9
                    dec
                                                R11
                    jnz
                                                comp1
                    call
                                         #part2
                                         vetor1(R9),R10
comp1:
                    mov.b
                    and
                                      #BIT0,R10
                                                impa1
                    jnz
                    call
                                         #par1
                    dec.b
                                         R8
par1:
                                         R8
                    dec.b
                    add.b
                                         #1,R8
                    mov.b
                                         vetor1(R9), vetor3(R8)
                    call
                                         #loop
impa1:
                    add.b
                                         #2,R8
                    mov.b
                                         vetor1(R9), vetor3(R8)
                    call
                                         #loop
                                         #6,R11
part2:
                    mov.b
                    call
                                         #loop2
loop2:
                    mov.b
                                         #0,R8
                    mov.b
                                         #1,R9
                                         #ordem
                    call
ordem0:
                                         R11
                    dec.b
                    jnz
                                         ordem
                    jmp
                                         $
ordem:
                    add.b
                                         #1,R8
                    add.b
                                         #1,R9
                    mov.b
                                         vetor3(R8),R10
                    and
                                         #BIT0,R10
                                         ordem0
                    jnz
                    call
                                         #par2
par2:
                    mov.b
                                         vetor3(R8),R12
                    mov.b
                                         vetor3(R9),R13
                    mov.b
                                         R13, vetor3(R8)
                    mov.b
                                         R12, vetor3(R9)
                    inc.b
                                         R8
                    call
                                         #ordem0
                     .data
vetor1:
                     .byte
                                         3,3,8,7
vetor2:
                    .byte
                                         3,2,1,4
vetor3:
                    .byte
                                         6,0,0,0,0,0,0
```

- - -

; Main loop here ;							
 Start:	mov.w mov.w	#1,R5 #2,R6					
loop:	mov.w	R5,R7					
	add.w	R6,R7					
next:	mov.w	R6,R5					
	mov.w	R7,R6					
fim:	jmp	100	<u>)</u>				