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EX 01

```
Inicio   EQU   100
Final    EQU   119

         MOV   A, Inicio
         MOV   B, A

Repete
         MOV   A, 1
         MOV   [B], A
         INC   B

         MOV   A, B
         CMP   A, Final
         JBE   Repete

         HLT
         END
```

EX 02

```
Inicio   EQU   100
Final    EQU   119
Valor    EQU   130

         MOV   A, 0
         MOV   [Valor], A

         MOV   A, Inicio
         MOV   B, A

Repete
         MOV   A, [Valor]
         MOV   [B], A
         INC   B

         ADD A, 1
         MOV [Valor], A

         MOV   A, B
         CMP   A, Final
         JBE   Repete
```

```
        HLT
        END
```

EX 03

```
i       equ     200
f       equ     255
menor   equ     100
maior   equ     101


        mov     A, i
        mov     B, A

        mov     A, [B]
        mov     [menor], A
        mov     [maior], A
        inc     B

repet
        mov     A, [B]
        inc     B

        cmp     A, [menor] ;if A < menor menor = A c = 1
        jc troca1

        cmp     A, [maior] ;if A > maior maior = A c = 0 z = 0
        ja troca2

troca1
        mov [menor], A

        mov A, B
        cmp A, 0
        jnz repet

        hlt

troca2
        mov [maior], A

        mov A, B
        cmp A, 0
        jnz repet

        hlt
        end
```

EX 04

```
Inicio   EQU   100
Final    EQU   101
Valor    EQU   130
media    EQU   131
result   EQU   132
         MOV   A, 0
         MOV   [Valor], A
         mov [media], A
        mov [result], A


         MOV   A, [Inicio]
         MOV   B, A


Repete


         MOV   A, [B]
         ADD A, [Valor]
         MOV [Valor], A

         MOV A, 1
         ADD A, [media]
         mov [media], A

         INC   B
         MOV   A, B
         CMP   A, [Final]
         JBE   Repete


subb
        mov A, [Valor]
        SUB A, [media]
        JBE acabar
        mov [Valor], A
        mov A, 1
        ADD A, [result]
        mov [result], A
        ja subb


acabar
         HLT
         END
```