Tema Laborator 5

Suciu Radu - Grupa 216/2

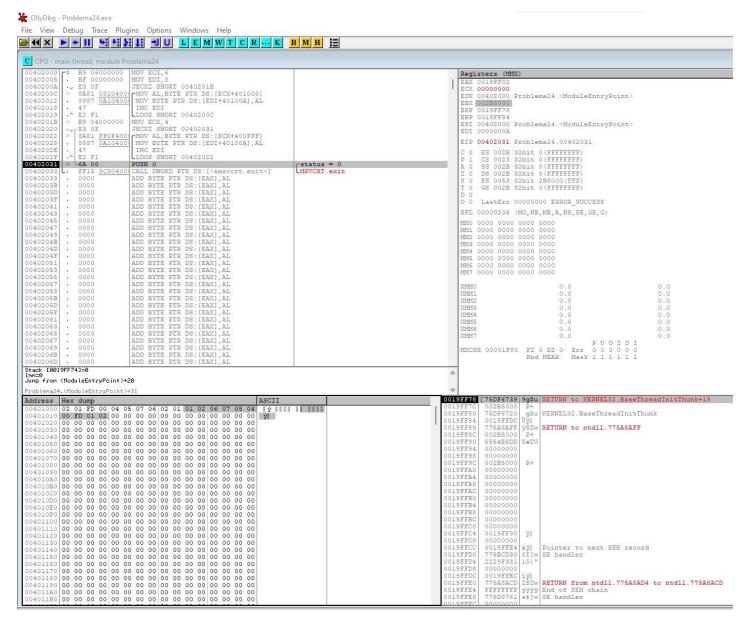
Problema 24

Se dau 2 siruri de octeti A si B. Sa se construiasca sirul R care sa contina elementele lui B in ordine inversa urmate de elementele in ordine inversa ale lui A.

```
bits 32; assembling for the 32 bits architecture
; declare the EntryPoint (a label defining the very first instruction of the program)
global start
; declare external functions needed by our program
extern exit
                         ; tell nasm that exit exists even if we won't be defining it
import exit msvcrt.dll ; exit is a function that ends the calling process. It is defined in msvcrt.dll
                          ; msvcrt.dll contains exit, printf and all the other important C-runtime specific
functions
; our data is declared here (the variables needed by our program)
segment data use32 class=data
   A db 2, 1, -3, 0
   L1 EQU $-A
   B db 4, 5, 7, 6, 2, 1
   L2 EQU $-B
   R times L1+L2 db 0
    ;R: 1, 2, 6, 7, 5, 4, 0, -3, 1, 2
; our code starts here
segment code use32 class=code
    start:
       mov ECX, L2
                          ; L2 = 6
       mov EDI, 0
                           :EDI = 0
        jecxz final1
        repeta:
           mov Al, [B+ECX-1]
           mov [R+EDI], Al
           inc EDI
        loop repeta
        final1:
        ; A doua instructiune LOOP pentru sirul A
         mov ECX, L1
        jecxz final2
        repeta2:
           mov AL, [A+ECX-1]
             mov [R+EDI], AL
```

```
inc EDI
loop repeta2
final2:

; exit(0)
push dword 0 ; push the parameter for exit onto the stack
call [exit] ; call exit to terminate the program
```



Problema 25

Se dau doua siruri de caractere S1 si S2. Sa se construiasca sirul D ce contine toate elementele din S1 care nu apar in S2.

bits 32; assembling for the 32 bits architecture

; declare the EntryPoint (a label defining the very first instruction of the program) global start

```
extern exit
import exit msvcrt.dll    ; exit is a function that ends the calling process. It is defined in
msvcrt.dll
segment data use32 class=data
       S1 db '+', '4', '2', 'a', '8', '4', 'X', '5'
       L1 equ $-S1
       S2 db 'a', '4', '5'
       L2 equ $-S2
       D times L1 db 0
       ; our code starts here
segment code use32 class=code
   start:
       mov ecx, L2 ; L2 = 3
       mov esi, 0
       mov eax, 0
       mov edx, 0
       mov edi, 0
       jecxz final
       REPETA1:
           mov ecx, L2
           REPETA2:
               mov al, [S1+esi-1] ; Se preiau elementele din siruri
               mov bl, [S2+ecx-1] ;
                           ; al - bl => rezultat in ZF
               CMP al,bl
               jz eticheta ;Conditia pentru elemente egale din siruri diferite
           LOOP REPETA2
           mov [D+edi], al
                                ; Elementul valid se adauga in D
           inc edi
           eticheta:
           inc esi
                                 ; ESI ++
           cmp esi, L1
                                 ; ESI - L1
       JB REPETA1
                                  ;sare la eticheta REPETA1 daca CF = 1
       final:
       ; Rezultat final D: '+', '2', '8', 'X'
       push dword 0
                          ; push the parameter for exit onto the stack
```

call [exit] ; call exit to terminate the program

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