;15. Se da un sir S de dublucuvinte.

; Sa se obtina sirul D format din octetii dublucuvintelor din sirul D sortati in ordine descrescatoare in interpretarea fara semn.

;Exemplu:

;s DD 12345607h, 1A2B3C15h

;d DB 56h, 3Ch, 34h, 2Bh, 1Ah, 15h, 12h, 07h

bits 32

global start

extern exit

import exit msvcrt.dll

segment data use32 class=data

s dd 12345607h, 1A2B3C15h

lg equ ($-s)/2

d times lg db 0

segment code use32 class=code

start:

mov esi, s

cld

mov ecx, lg

mov edi, 0

jecxz final

salvaresirocteti:

lodsw

mov bx, ax

mov ah, 0

mov [d+edi], ax ;

inc edi

shr bx, 8

mov [d+edi], bx

inc edi

loop salvaresirocteti

sortaresir:

mov ecx, edi

jecxz final

dec ecx ;0 <= i <lgsir-1

mov esi, 0 ;i = 0

repeta1:

mov al, [d+esi] ;al=d[i]

mov ebx, esi

inc ebx ;i+1 <= j < lgsir

repeta2:

mov dl, [d+ebx] ;dl = d[j]

cmp al, dl

ja nuinterschimb

;daca d[i] <= d[j] interschimb elementele

mov [d+esi], dl

mov [d+ebx], al

mov al, dl

;daca d[i] > d[j] nu interschimb elementele

nuinterschimb:

inc ebx ;j++

cmp ebx, edi ;verific daca am ajuns la ultimul element

jb repeta2 ;daca j < lgsir, reiau ciclul

urmator:

inc esi

loop repeta1

final:

push dword 0

call [exit]