; 1.Sa se citeasca de la tastatura doua numere (in baza 10) si sa se calculeze produsul lor.

; Rezultatul inmultirii se va salva in memorie in variabila "rezultat" (definita in segmentul de date).

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

rezultat dd 0

segment code use32 class=code

start:

;apelez printf(mesaj)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesaj)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov eax,0

mov al,[a]

mov edx,[b]

imul dl

mov dword[rezultat],eax

;apelez printf(format,val)

push dword [rezultat]

push dword format

call [printf]

add esp,4\*1

push dword 0

call [exit]

; 2.Sa se citeasca de la tastatura doua numere a si b (in baza 10) si sa se calculeze a/b.

; Catul impartirii se va salva in memorie in variabila "rezultat" (definita in segmentul de date). Valorile se considera cu semn.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

rezultat dd 0

segment code use32 class=code

start:

;apelez printf(mesaj)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesaj)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov eax,0

mov ax,[a]

mov edx,0

mov dl,[b]

idiv dl

mov dword[rezultat],eax

;apelez printf(format,val)

push dword [rezultat]

push dword format

call [printf]

add esp,4\*1

push dword 0

call [exit]

; 3.Se dau doua numere naturale a si b (a, b: dword, definite in segmentul de date). Sa se calculeze suma lor si sa se afiseze

; in urmatorul format: "<a> + <b> = <result>"

; Exemplu: "1 + 2 = 3"

; Valorile vor fi afisate in format decimal (baza 10) cu semn.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%d + %d = %d",0

rezultat dw 0

segment code use32 class=code

start:

;apelez printf(mesaj)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesaj)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov ax,[a]

add ax,[b]

mov word[rezultat],ax

;apelez printf(formatr,a,b,val)

push dword [rezultat]

push dword [b]

push dword [a]

push dword formatr

call [printf]

add esp,4\*4

push dword 0

call [exit]

; 4.Se dau doua numere naturale a si b (a, b: word, definite in segmentul de date). Sa se calculeze produsul lor si sa se afiseze

; in urmatorul format: "<a> \* <b> = <result>"

; Exemplu: "2 \* 4 = 8"

; Valorile vor fi afisate in format decimal (baza 10) cu semn.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dw 10

b dw -2

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%d \* %d = %d",0

rezultat dq 0

segment code use32 class=code

start:

mov ax,[a]

mov dx,0

imul word[b]

push dx

push ax

pop eax

mov dword[rezultat],eax

mov ax,[a]

cwde

mov ebx,eax

mov ax,[b]

cwde

;apelez printf(formatr,a,b,val)

push dword [rezultat]

push dword eax

push dword ebx

push dword formatr

call [printf]

add esp,4\*4

push dword 0

call [exit]

; 5.Se dau doua numere naturale a si b (a, b: word, definite in segmentul de date). Sa se calculeze a/b si sa se afiseze catul

; si restul impartirii in urmatorul format: "Cat = <cat>, rest = <rest>"

; Exemplu: pentru a=23 si b=10 se va afisa: "Cat = 2, rest = 3"

; Valorile vor fi afisate in format decimal (baza 10) cu semn.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dw 10

b dw -3

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "cat = %d si rest = %d",0

cat dd 0

res dd 0

segment code use32 class=code

start:

mov ax,[a]

mov dx,0

idiv word[b]

cwde

mov dword[cat],eax

mov ax,dx

cwde

mov dword[res],eax

;apelez printf(formatr,a,b,val)

push dword [res]

push dword [cat]

push dword formatr

call [printf]

add esp,4\*4

push dword 0

call [exit]

**; 6.Se dau doua numere naturale a si b (a: dword, b: word, definite in segmentul de date). Sa se calculeze a/b si sa se afiseze**

**; catul impartirii in urmatorul format: "<a>/<b> = <cat>"**

**; Exemplu: pentru a = 200 si b = 5 se va afisa: "200/5 = 40"**

**; Valorile vor fi afisate in format decimal (baza 10) cu semn.**

**bits 32**

**global start**

**extern exit, printf, scanf**

**import exit msvcrt.dll**

**import printf msvcrt.dll**

**import scanf msvcrt.dll**

**segment data use32 class=data**

**a dw 10**

**b dw -3**

**mesaja db "Dati a=",0**

**mesajb db "Dati b=",0**

**format db "%d",0**

**formatr db "%d / %d = %d",0**

**cat dd 0**

**segment code use32 class=code**

**start:**

**mov ax,[a]**

**mov dx,0**

**idiv word[b]**

**cwde**

**mov dword[cat],eax**

**mov ax,[a]**

**cwde**

**mov ebx,eax**

**mov ax,[b]**

**cwde**

**;apelez printf(formatr,a,b,val)**

**push dword [cat]**

**push dword eax**

**push dword ebx**

**push dword formatr**

**call [printf]**

**add esp,4\*4**

**push dword 0**

**call [exit]**

; 7.Se dau doua numere natural a si b (a: dword, b: word, definite in segmentul de date). Sa se calculeze a/b si sa se afiseze

; restul impartirii in urmatorul format: "<a> mod <b> = <rest>"

; Exemplu: pentru a = 23 si b = 5 se va afisa: "23 mod 5 = 3"

; Valorile vor fi afisate in format decimal (baza 10) cu semn.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dw 10

b dw -3

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%d mod %d = %d",0

cat dd 0

segment code use32 class=code

start:

mov ax,[a]

mov dx,0

idiv word[b]

mov ax,dx

cwde

mov dword[cat],eax

mov ax,[a]

cwde

mov ebx,eax

mov ax,[b]

cwde

;apelez printf(formatr,a,b,val)

push dword [cat]

push dword eax

push dword ebx

push dword formatr

call [printf]

add esp,4\*4

push dword 0

call [exit]

; 8.Se da un numar natural a (a: dword, definit in segmentul de date). Sa se citeasca un numar natural b si sa se calculeze: a + a/b.

; Sa se afiseze rezultatul operatiei. Valorile vor fi afisate in format decimal (baza 10) cu semn.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dw 10

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%d mod %d = %d",0

cat dd 0

segment code use32 class=code

start:

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov ax,[a]

cwde

mov edx,0

idiv dword[b]

add ax,[a]

cwde

mov [cat],eax

push dword [cat]

push dword format

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 9.Sa se citeasca de la tastatura doua numere a si b (in baza 10) si sa se calculeze: (a+b) / (a-b).

; Catul impartirii se va salva in memorie in variabila "rezultat" (definita in segmentul de date). Valorile se considera cu semn.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%d mod %d = %d",0

rez dd 0

segment code use32 class=code

start:

;apelez printf(mesajb)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov eax,[a]

add eax,[b]

mov edx,0

mov ebx,[a]

sub ebx,[b]

idiv ebx

mov dword[rez],eax

push dword [rez]

push dword format

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 10.Sa se citeasca de la tastatura un numar in baza 10 si sa se afiseze valoarea acelui numar in baza 16.

; Exemplu: Se citeste: 28; se afiseaza: 1C

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%x",0

formatr db "%d",0

rez dd 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword formatr

call [scanf]

add esp,4\*2

push dword [a]

push dword format

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 12.Se da un numar natural negativ a (a: dword).

; Sa se afiseze valoarea lui in baza 10 si in baza 16, in urmatorul format: "a = <base\_10> (baza 10), a = <base\_16> (baza 16)"

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%x",0

rez dd 0

mesaj db "si",0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

push dword [a]

push dword format

call [printf]

add esp,4\*2

;apelez printf(mesaja)

push dword mesaj

call [printf]

add esp,4\*1

push dword [a]

push dword formatr

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 13.Sa se citeasca de la tastatura doua numere a si b (in baza 10) si sa se calculeze: (a+b) \* (a-b).

; Rezultatul inmultirii se va salva in memorie in variabila "rezultat" (definita in segmentul de date).

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%x",0

rez dd 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov eax,[a]

add eax,[b]

mov ebx,[a]

sub ebx,[b]

mul ebx

mov [rez],eax

;apelez scanf(format,b)

push dword [rez]

push dword format

call [printf]

add esp,4\*2

push dword 0

call [exit]

;14.Sa se citeasca de la tastatura doua numere a si b (in baza 16) si sa se calculeze a+b.

;Sa se afiseze rezultatul adunarii in baza 10.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatr db "%x",0

rez dd 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword formatr

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword formatr

call [scanf]

add esp,4\*2

mov eax,[a]

add eax,[b]

mov [rez],eax

;apelez scanf(format,b)

push dword [rez]

push dword format

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 18.Sa se citeasca de la tastatura un numar in baza 10 si un numar in baza 16. Sa se afiseze in baza 10 numarul de

;biti 1 ai sumei celor doua numere citite. Exemplu:

; a = 32 = 0010 0000b

; b = 1Ah = 0001 1010b

; 32 + 1Ah = 0011 1010b

; Se va afisa pe ecran valoarea 4.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formath db "%x",0

contor dd 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword formath

call [scanf]

add esp,4\*2

mov eax,[a]

add eax,[b]

mov ecx,32

nrbiti:

shr eax,1

jnc peste

add dword[contor],1

peste:

loop nrbiti

;apelez scanf(format,b)

push dword [contor]

push dword format

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 19.Sa se citeasca de la tastatura un octet si un cuvant. Sa se afiseze pe ecran daca bitii octetului citit se regasesc consecutiv

; printre bitii cuvantului. Exemplu:

; a = 10 = 0000 1010b

; b = 256 = 0000 0001 0000 0000b

; Pe ecran se va afisa NU.

; a = 0Ah = 0000 1010b

; b = 6151h = 0110 0001 0101 0001b

; Pe ecran se va afisa DA (bitii se regasesc pe pozitiile 5-12).

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a db 0

b dw 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formats db "%s",0

formath db "%x",0

contor dd 0

nu db "Nu",0

da db "Da",0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword formath

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword formath

call [scanf]

add esp,4\*2

mov ax,[b]

mov ecx,8

mov dl,[a]

mov ebx,0

rezv:

cmp al,dl

je peste

shr al,1

loop rezv

jmp sari

peste:

mov ebx,1

sari:

cmp ebx,1

jne nunu

push dword da

push dword formats

call [printf]

add esp,4\*2

jmp p

nunu:

push dword nu

push dword formats

call [printf]

add esp,4\*2

p:

push dword 0

call [exit]

; 20.Sa se citeasca de la tastatura in baza 16 doua numere a si b de tip dword si sa se afiseze suma partilor low si diferenta

; partilor high. Exemplu:

; a = 00101A35h, b = 00023219h

; suma = 4C4Eh

; diferenta = Eh

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dd 0

b dd 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formats db "%s",0

formath db "%x",0

contor dd 0

nu db "Nu",0

da db "Da",0

suma dd 0

dif dd 0

sum db "Suma este:%x",13,10,0

difer db "Diferenta este:%x",13,10,0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword formath

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword formath

call [scanf]

add esp,4\*2

mov esi,a

cld

lodsw

mov dx,ax

mov esi,b

cld

lodsw

add dx,ax

mov eax,0

mov ax,dx

mov dword[suma],eax

mov esi,a

cld

lodsw

lodsw

mov dx,ax

mov esi,b

cld

lodsw

lodsw

sub dx,ax

mov eax,0

mov ax,dx

mov dword[dif],eax

push dword [suma]

push dword sum

call [printf]

add esp,4\*2

;apelez printf

push dword [dif]

push dword difer

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 21.Sa se citeasca de la tastatura doua numere a si b de tip word. Sa se afiseze in baza 16 numarul c de tip dword pentru care

; partea low este suma celor doua numere, iar partea high este diferenta celor doua numere. Exemplu:

; a = 574, b = 136

; c = 01B602C6h

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dw 0

b dw 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formats db "%s",0

formath db "%x",0

contor dd 0

nu db "Nu",0

da db "Da",0

suma dd 0

dif dd 0

rez dd 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov ax,[a]

add ax,[b]

mov edi,rez

cld

stosw

mov ax,[a]

sub ax,[b]

cld

stosw

push dword [rez]

push dword formath

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 22.Se citesc de la tastatura doua numere a si b.

; Sa se calculeze valoarea expresiei (a+b)\*k, k fiind o constanta definita in segmentul de date.

; Afisati valoarea expresiei (in baza 10).

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dw 0

b dw 0

k equ 2

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formats db "%s",0

formath db "%x",0

contor dd 0

nu db "Nu",0

da db "Da",0

suma dd 0

dif dd 0

rez dd 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

;apelez printf(mesajb)

push dword mesajb

call [printf]

add esp,4\*1

;apelez scanf(format,b)

push dword b

push dword format

call [scanf]

add esp,4\*2

mov eax,0

mov ax,[a]

add ax,[b]

mov bx,k

mul bx

push dword eax

push dword formath

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 23. Sa se citeasca de la tastatura un numar hexazecimal format din 2 cifre. Sa se afiseze pe ecran acest numar in baza 10,

; interpretat atat ca numar fara semn cat si ca numar cu semn (pe 8 biti).

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

a dw 0

mesaja db "Dati a=",0

mesajb db "Dati b=",0

format db "%d",0

formatd db "%d",0

formatu db "%u",0

formats db "%s",0

formath db "%x",0

contor dd 0

nu db "Nu",0

da db "Da",0

suma dd 0

dif dd 0

rez dd 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword a

push dword format

call [scanf]

add esp,4\*2

mov eax,0

mov eax,[a]

push eax

push dword eax

push dword formatu

call [printf]

add esp,4\*2

pop eax

push dword eax

push dword formatd

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 27.Se dă un sir de caractere (definit in segmentul de date).

; Să se citească de la tastatură un caracter, să se determine numărul de apariţii al acelui caracter în şirul dat şi să

; se afişeze acel caracter împreună cu numărul de apariţii al acestuia.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

sir db "abcdefaaaaaa",0

lg equ $-sir

car dd 0

contor dd 0

mesaja db "Dati c=",0

mesajb db "Dati b=",0

format db "%d",0

formatd db "%d",0

formatc db "%c",0

formats db "%s",0

formath db "%x",0

formatnou db "Caracterul: %c apare de %d ori"

nrap db 0

segment code use32 class=code

start:

;apelez printf(mesaja)

push dword mesaja

call [printf]

add esp,4\*1

;apelez scanf(format,a)

push dword car

push dword formatc

call [scanf]

add esp,4\*2

mov esi,sir

mov ecx,lg

rezolvare:

cld

lodsb

cmp al,[car]

jne peste

add dword[contor],1

peste:

loop rezolvare

push dword [contor]

push dword [car]

push dword formatnou

call [printf]

add esp,4\*2

push dword 0

call [exit]

; 28.Se citesc de la tastatura numere (in baza 10) pana cand se introduce cifra 0.

; Determinaţi şi afişaţi cel mai mare număr dintre cele citite.

bits 32

global start

extern exit, printf, scanf

import exit msvcrt.dll

import printf msvcrt.dll

import scanf msvcrt.dll

segment data use32 class=data

nr dd 0

max dd 0

mesaja db "Dati c=",0

mesajb db "Dati b=",0

format db "%d",0

formatd db "%d",0

formatc db "%c",0

formats db "%s",0

formath db "%x",0

formatnou db "Maximul este %d"

nrap db 0

segment code use32 class=code

start:

citeste:

;apelez scanf(format,a)

push dword nr

push dword format

call [scanf]

add esp,4\*2

mov edx,0

cmp edx,[nr]

je iesi

mov ebx,[max]

cmp ebx,[nr]

jae s

mov ebx,[nr]

mov dword[max],ebx

s:

mov dword[nr],0

jmp citeste

iesi:

push dword [max]

push dword formatnou

call [printf]

add esp,4\*2

push dword 0

call [exit]

bits 32

global start

extern exit,printf; tell nasm that exit exists even if we won't be defining it

import exit msvcrt.dll; is defined in msvcrt.dll

import printf msvcrt.dll

segment data use32 class=data

a dw 0ABh

m dd 0

n dd 5

rez dw 0

segment code use32 class=code

start:

mov ecx,16

mov ebx,0

mov ax,[a]

repeta1:

cmp ebx,[m]

je la2

shr ax,1

inc ebx

loop repeta1

la2:

mov ecx,[n]

sub ecx,[m]

inc ecx

mov edx,0

repeta2:

shr ax,1

rcr dx,1

loop repeta2

afara:

mov ecx,[n]

sub ecx,[m]

inc ecx

mov eax,16

sub eax,ecx

mov cl,al

shr dx,cl

push dword 0; push the parameter for exit onto the stack

call [exit]; call exit to terminate the program