Laborator 0×08

- 1. Revan
- 2. Functie : suma el. dinte un ouroug
- 3. Functie : lungunea unu vir de conactere
- 4. I tructura stivei in cozul opelmilor imbricate

Recon

- configuration stives
- implementarea proceduri har

Comenții

- 1. Arg se încarcă în vidine inversa pe stivă
- 2. apel prin call / ret; call := jmn et linh
 re trere i riais pe stiva
 jmn
- 3. 1 eax, 1 ecx, 1 edx m govanteazo restaurana valvii returnate
- h. 1. els, 1 es, 1 em mut restaurati
- 5. avesava în cadul de grel re fare relative la 1 els

vx 1

Så se implementeze providura <u>num Arg</u> core nå calculeze suma el. dinti-cus avay din intreg:

. data

v: . long 10, 20, 30, 15, 7

n: . long 5

format Print g: . aniz " Sum 1.d"

. test

. global main

mm Am:

push teln

mor ten, teln

xor tens, tens # ruma

xor tens, tens # index

push tedi

mor 8 (teln), tedi

push tels

mor 12 (teln), tels # n 9 5 v

12 n

Sum Arr - boon:

je sum Arr_ suit

mor (1. idi, 1. es, h), 1. edx

add 1. eds, 1. eax

inc 1. ex

jmn num Arr_ boon

num Am - exit

non 1. else
non 1. edi
non 1. edi
non 1. eln
net

main

push n

push \$ v

call num An

add \$ 8, 1/2 em

rush 1 eas rush \$ format Printy call ruinty add \$ 8, 1. em

mor \$1, 1. ear

mor \$0, 1. elx

int \$04.80

ex 2

Svieli o Junctie <u>stringlen</u> con primeste odresa uni sir de conoctere si relumeaçõe lungimea ousturi sir

long shinglen (shor + sts)

. data

n: . long 0

v:. aniz "lungine 'n"

- . test
- . global main

main:

rush \$ stringlen

add \$ h, 1 elm

mod teas, n

mor \$1, 1- cax

mor \$0) 1- elx

int \$0 x00

stringlen:

push 1. eln

mor 1. em, 1. eln

push 1. edi

mor 8 (1. eln), 1. edi

xor 1. eas, 1. eas # counter

shunglen _ loop:

mover (+ edi, + en, 1), 1. cl

je shunghen - sait inc 1. eas

jmp stinglen - seit

stringlen - escit

pon 1 edi

pon 1 eln

ret

Structura stive in copul opelusible imbricate

$$g(x) = x+1$$

 $f(x) = 2 \cdot g(x)$

g :

push I eln

mor 1 em, 1 ely

mor 8 (+ dn), + eax

im I wax

pon I dn

ret

f:

push tely

nor ten, tely

mor 8 (+ dn), + eax

push + eax

sall g

(n.a. (.) -) add \$4, 1. em

ear + g(+)

odd I ear, I ear

pon 1. da

ret

· I. ebn

- a) Soricti o procedura long Mar (long * v, long m)

 =) det max din An
- b) Snicti o posedura max (long * v, long m)

 =) det m. apariti al clem. max

 In m Apar Max efutuati un apel la max

. data

n: long 6

v: long 20, 5, 20, 3, 6, 20

. text

. global main

max

mor 1 em, 1 elm

mor 50, 1 em

mor 50, 1 em

push 1 edi

mor 8(1 elm), 1 edi

push 1 elm

mor 12(1 elm), 1 elm

```
max_loon:
```

je man-veit

push I eda

mor (I edi, I eex, h), I edx

comp 1 cax , 1 idx

jg dange-max

jmp wit - max

change - max :

mor 1. eds, 1. eax

wnt_ max :

im I ex

pon 1. way

jmp man - loon

may - exit:

non 1. els

non 1. whi

pon -1. Un

ret

m Apon Max:

punh I da

mor tem, tely

I dan
I edi
I con

12

```
mor 12(1eln), 1eox

push 1eox

nor 8(1eln), 1eox

call max

add $8, 1eon
```

1. cax + max

mor 1. cax, 1. edx

1. cdx + max

mor \$0, 1. cax

mor 8 (1. chn, 1. coli)

push 1. ebx

mor 12 (1. eln), 1. elx

mor 50, 1. ecx

m Apan Max - Loon:

unn 1. exx, 1. elx

je m Apan Max - exid

purh 1. elx

morr (1. edi, 1. ers, h), 1. els

comp 1. els, 1. eds

je et_adaugā

jour et_wat_born

et - adanga :

ine I wax

it _ wort _ loon :

pon 1. elx

inc 1. ex

jan n A na Max - boon

m Apon Mas _ exit :

pop 1. els

pan I edi

pop 1. dn

net

main :

push on

mush 5 v

call m Apa Max

add \$ 6, 1. um

push tox

puch \$ found Pind

fring llas

add \$6, 1. em

d- ord:

mor \$1, -1. cax

mor \$0, 1 de

int \$ 0 x 80