

3) model small
.data

n dw 4

r dw 2

na dw 0

.code

mov ax, @data

mov ds, ax

mov ax, n

mov bx, r

call ncrpro

call disp

jmp final

ncrpro proc near

cmp ax, bx

je res1

cmp bx, 0

je res1

cmp bx, 1

je resn

dec ax

cmp bx, ax

je incr

push ax

push bx

call ncrpro

pop bx

pop ax

```
dec bx
push ax
push bx
call ncrpro
pop bx
pop ax
ret
```

```
set:inc ncr
ret
```

```
inc:inc ncr
resn: add ncr, ax
ret
```

```
ncrpro endp
disp proc near
mov bx, ncr
add bx, 3030h
mov dl, bh
mov ah, 02h
int 21h
mov dl, bl
mov ah, 02h
int 21h
ret
```

```
disp endp.
```

```
final: mov ah, 4ch
int 21h
end
```

DOS DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip: 0, Emulation: 0

Cop06

---C:\MASM>edit ncr.asm

CON C:\MASM>link ncr;;
IID

Microsoft (R) Overlay Linker Version 3.60
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LINK : warning L4021: no stack segment

C:\MASM>masm ncr;;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51758 + 464786 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\MASM>ncr

@:

C:\MASM>ncr

@:

C:\MASM>link _

Data\Local\