

.model small

.data

n dw 4

r dw 2

ncr 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 ;r=n

 je res1

 cmp bx,0 ;r=0

 je res1 ; 3c2 +3c1

 cmp bx,1 ;r=1

 je resn

 dec ax ;r=n-1

 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
```

```
res1:inc ncr
ret
```

```
incr:inc ncr
resn:add ncr,ax ;1+2 3+3=6
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
```

51756 + 464788 Bytes symbol space free

3 Warning Errors
5 Severe Errors

C:\MASM>masm ncr.;

Microsoft (R) Macro Assembler Version 5.00

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51758 + 464786 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\MASM>link ncr.;

Microsoft (R) Overlay Linker Version 3.60

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LINK : warning L4021: no stack segment

C:\MASM>ncr

06

C:\MASM>S