N-C-R

```
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  ncrproo
call  disp
jmp   final

ncrproo  proc  near

cmp   ax, bx  ; r=n
je    resl
cmp   bx, 0 ; r=0
je    resl
cmp   bx, 1 ; a=1
je    resn
dec   ax
cmp   bx, ax
je    incr
```

```asm
push ax
push bx
call ncopies


pop bx
pop ax


dec bx
push ax
push bx
call ncopies
pop bx
pop ax
ret


cosl: inc ncr
ret


incr: inc ncr
sum: add ncr, cu    ; 1+2 3+3=6
ret
ncopies 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
dish endp.

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

```
Z:\>c:

C:\>cd masm

C:\MASM>masm NCR;;
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    51758 + 464786 Bytes symbol space free

        0 Warning Errors
        0 Severe   Errors

C:\MASM>LINK NCR;;

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LINK : warning L4021: no stack segment

C:\MASM>NCR
06
C:\MASM>_
```