```asm
.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
```

```asm
        cmp ax,bx      ;r=n
        je res1
        cmp bx,0       ;r=0
        je res1
        cmp bx,1       ;r=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
```

```
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
      ret
      disp endp

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

```
 File    Edit   View   Search   Run   Watch   Options   Calls                    Help
┌┤·├───────────────────────── local ──────────────────────────────┤↑├─┤·├reg├↑├
│├·├──────────────── source1 CS:IP (ACTIVE)───────────────────────┤↑├  AX = 0000
│052A:0000 B82F05      MOV       AX,052F                                  BX = 0000
│052A:0003 8ED8        MOV       DS,AX                                    CX = 0000
│052A:0005 A10A00      MOV       AX,Word Ptr [000A]                       DX = 0000
│052A:0008 8B1E0C00    MOV       BX,Word Ptr [000C]                       SP = 0000
│052A:000C E80600      CALL      0015                                     BP = 0000
│052A:000F E83400      CALL      0046                                     SI = 0000
│052A:0012 EB41        JMP       0055                                     DI = 0000
│052A:0014 90          NOP                                                DS▌= 051A
│052A:0015 3BC3        CMP       AX,BX                                    ES = 051A
│052A:0017 741F        JZ        0038                                     SS = 0529
│052A:0019 83FB00      CMP       BX,+00                                   CS = 052A
│052A:001C 741A        JZ        0038                                     IP = 0000
│052A:001E 83FB01      CMP       BX,+01                                   FL = 0200
│052A:0021 741E        JZ        0041
│052A:0023 48          DEC       AX                                      NV UP EI PL
│052A:0024 3BD8        CMP       BX,AX                                   NZ NA PO NC
├┤·├────────────────────────── command ────────────────────────┤↑├
│051A:0000  CD 20 FF 9F 00 EA FF FF-AD DE 6C 02 CD 03 32 03   . ...↑
│051A:0010  CD 03 4B 0A CD 03 FF 04-01 01 01 00 02 03 FF FF   ..K..
│>
│                                                               →↓
└─────────────────────────────────────────────────────────────────┘
 <F8=Trace> <F10=Step> <F5=Go> <F6=Window> <F3=Display> <ESC=Cancel>
```