```
.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 pro near
        cmp ax,bx   ;   r=n
        je res1
        cmp bx,0    ;   r=0
        je res1
        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

resi : 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
```