NCR

```
.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

ncrpro proc near
        cmp ax, bx      ; r=n
        je resl
        cmp bx, 0       ; r=0
        je resl
        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 ncs proc
pop bx
pop ax
ret

resl : inc ncs
ret
ncs : inc ncs
non : add ncs, ax ;
ret
ncs proc endp .

disp proc ncas
    mov bx, ncs
    add be, 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
```