

NCR

• model small

• data

n dw 1

r dw 2

ncr dw 0

• code

mov ax, @data

mov ds, ax

mov ax, n

mov bx, r

call ncrproc

call disp

jmp final

ncrproc proc near

cmp ax, bx ; r = n

je yes1

cmp bx, 0 ; r = 0

je yes1

cmp bx, 1

je yesn,

dec ax ; $x \geq n-1$

cmp bx, ax

je incx

push ax

push bx

call ncrpro

pop bx

pop ax

dec bx

push ax

push bx

call ncrpro

pop bx

pop ax

ret

mes1: inc ncr

ret

mes2: inc ncr

mes3: add ncr, ax

; 1+2 5+3:6

ret

ncrpro endp

disp proc near

mov bx, ncr

add bx, 3030H

mov dl, bh

mov ah, ~~20h~~ 02h

int 21h

mov dl, bl

mov ah, 02h

int 21h

ret

disp endp

final: mov ah, 4ch

int 21h

end