

Lab program-6

NCR

.model small

.data

n dw 4

r dw 2

near dw 0

.code

mov ax, @data

mov ds, ax

mov ax, n

mov bx, r

call disp

call ncrpro

jmp final

ncrpro proc near

cmp ax, bx ; $n = 0$

jle res1

cmp bx, 0 ; $n = 0$

je res1

cmp bx, 1 ; $n = 1$

dec ax

cmp bx, ax

jle incr

push ax

push bx

call ncrpro

pop bx

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pop ax
dec bx
push ax
push bx
call ncrpro
pop bx
pop ax
ret

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res1: inc ncr
ret

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incr: inc ncr
res2: add ncr, ax ; 1+2 3+3 = 6
ret
ncrpro endp

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disp proc near
mov bx, ncr
add bx, 303ch
mov dl, 6h
mov ah, 02h
int 21h
mov dl, 6h
mov ah, 02h
int 21h
ret
disp endp

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final: mov ah, 4ch
int 21h
end

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