

Computing NCr using recursive procedure.

. model small

. data

n db 05h

r db 02h

nextval dw ah dup(?)

. code

start: mov ax, @data

mov ds, ax

mov cl, r

mov ch, n

xor ax, ax

call ncr

mov [nextval], ax

mov ah, 4ch

int 21h

ncr proc near

cmp ch, cl

jz equal

jz finish

cmp cl, 01h

jz next

cmp cl, 00h

jz equal

dec ch

push cx

call ncr

pop cx

dec cl
call ncl
ret

next: XOR BX, BX
 MOV BL, CH
 ADD AX, BX

ret
equal : add ax, 01h
finish : ret
ncl endp

end start