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Program to find the number of combinations
 nC_r

• model small

• data

n dw 4

r dw 2

nrc dw 0

• code

mov ax, @data

mov ds, ax

mov ax, n

mov bx, r

call nrcpro

call disp

jmp final

nrcpro: proc near

cmp ax, bx ; r = n

je res1

cmp bx, 0 ; r = 0

je

res1:

cmp bx, 1

je resn

dec ax

cmp bx, ax

```
inc rcr  
push ax  
push bx  
call ncrpro  
pop  
pop bx  
pop ax  
dec bx  
push bx  
call ncrpro  
pop bx  
pop ax  
ret
```

```
resl: inc rcr  
ret
```

```
incr: inc rcr
```

```
resn: add rcr, ax  
ret
```

```
ncrpro endp
```

```
disp proc near  
mov bx, rcr  
add bx, 3030h  
mov dl, bh  
mov ah, 02h  
int 21h  
mov dl, bl  
mov ah, 02h  
int 21h  
ret
```

```
disp endp
```

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final: max ab, 4ch

int 21h

end