No.

Date

SHIVANI GAHLOT IBM19CS150. BATCH-2

^nC_r USING RECURSIVE PROCEDURE

```
.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
jmp final

ncrpro proc near
cmp ax, bx  ; r=n
je res1
cmp bx, 0   ; r=0
je res1                ; 3C2 + 3C1
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 ncrpro
pop bx
pop ax
ret

res1: inc ncr
ret

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

disp proc near
mov bx, ncr
add bx, 3030h
mov dl, bh
mov ah, 02h
mov int 21h
mov dl, bl
mov ah, 02h
int 21h
ret
disp endp
final: mov ah, 4ch
int 21h
end
```