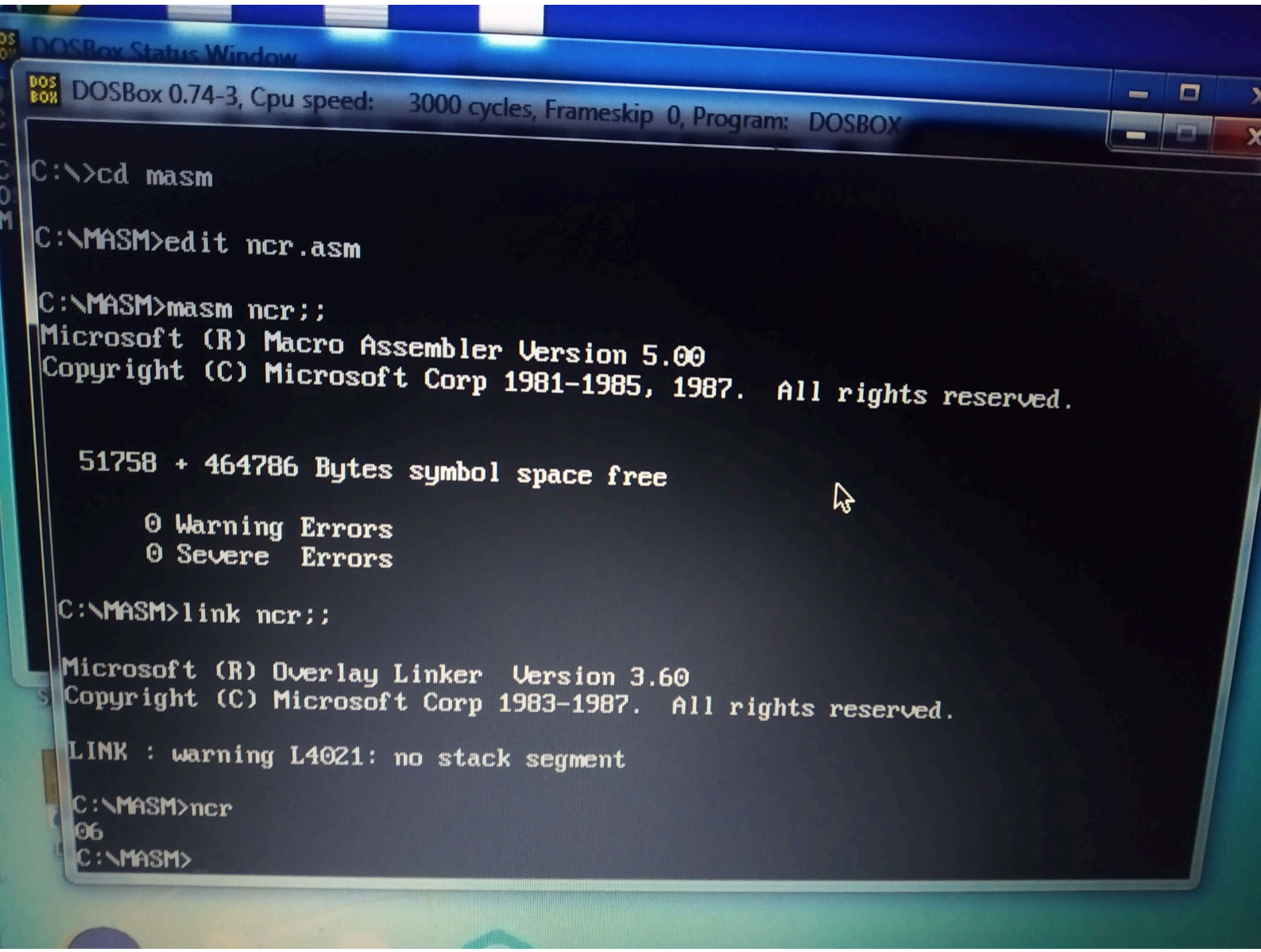
To compute ncr using recursive function.

```
.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 norpro
call disp
jmp final

norpro proc near
  cmp ax, bx
  je res1
  cmp bx, 0
  je res1
  cmp bx, 1
  je resn
  dec ax
  cmp bx, ax
  je incr
  push ax
  push bx
 ret
  res1: inc nor
ret
 incr: inc nor
resn: add nor, ax        ; 1+2  3+3 = 6
ret
norpro endp
disp proc near
   mov bx, nor
   add bx, 3030H
   mov .dl, bh
   mov ah, 02H
   int 21H
   mov dl, bl
   mov ah, 02H
```

```
int 21H
ret
disp endp
final: mov ah, 4ch
       int 21H
       end
```


DOSBox Status Window
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
C:\>cd masm
C:\MASM>edit ncr.asm
C:\MASM>masm ncr;;
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.
51758 + 464786 Bytes symbol space free
0 Warning Errors
0 Severe Errors
C:\MASM>link ncr;;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.
LINK : warning L4021: no stack segment
C:\MASM>ncr
06
C:\MASM>