Lab Experiment: NCR

- MODEL SMALL
- DATA

```asm
N DW 4
R DW 2
NCR DW 0
```

- CODE

```asm
MOV AX, @DATA
MOV DS, AX
MOV AX, N
MOV BX, R
CALL NCRPRO
CALL DISP
JMP FINAL

NCRPRO   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
          CALL NCRPRO
POP AX
POP BX
DEC BX
PUSH AX
PUSH BX
CALL NCRPRO
POP BX
POP AX
```

```asm
        RET
RES1:   INC NCR
        RET
INCR:   INC NCR
RESN:   ADD NCR, AX
        RET
NCR PRO END

DISP PROC NEAR
        MOV BX, NCR
        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
```