.MODEL SMALL

.DATA

X DB 33h

MS DB "NUMBER IS ->>>>$"

MSG DB 10,13, "pallindrome$"

MSG1 DB 10,13, "not palindrome$"

PRINT MACRO MSG

MOV DX,OFFSET MSG

MOV AH,09H

INT 21H

ENDM

.CODE

MOV AX,@DATA

MOV DS,AX

PRINT MS

MOV AL,X

MOV CL,04H

ROR AL,CL

MOV DL,AL

MOV AH,02H

INT 21H

MOV DL,X

MOV AH,02H

INT 21H

MOV AL,X

AND AL,0F0H

MOV BL,X

AND BL,0FH

MOV CL,04H

MOV DX,0

UP:ROL AL,1

JC DOW

ROR BL,1

JC DOW1

CMP DL,DH

JNZ DOWN

LOOP UP

JMP DOW2

DOW:INC DL

JMP UP

DOW1: INC DH

JMP UP

DOW2:

LEA DX,MSG

MOV AH,09H

INT 21H

JMP EXIT

DOWN: LEA DX,MSG1

MOV AH,09H

INT 21H

EXIT:MOV AH,4CH

INT 21H

END