

MODEL SMALL

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DISPLAY MACRO MSG

IBM19CS183

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

.DATA

MSG1 DB 0DH, 0AH, "Enter string: \$"

MSG2 DB 0DH, 0AH, "Entered string is palindrome \$"

MSG3 DB 0DH, 0AH, "Entered string is not palindrome \$"

STR DB 10H DUP(0)

REVSTR DB 10H DUP(0)

LEN DW 0

.CODE

MOV AX, @DATA

MOV DS, AX

DISPLAY MSG1

MOV SI, 00H

BACK1: MOV AH, 01H

INT 21H

CMP AL, 0DH

JZ NEXT

MOV STR[SI], AL

INC SI

INC LEN

JMP BACK1

NEXT: MOV SI, 00H

MOV DI, 00H

ADD DI, LEN

DEC DI

MOV CX, LEN

BACK2: MOV AL, STR[SI]
MOV REVSTR[DI], AL
INC SI
DEC DI
LOOP BACK2
MOV CX, LEN
MOV SI, 0DH
MOV DI, 00H
CLD

BACK3: MOV BL, STR[SI]
CMP BL, REVSTR[DI]
JNZ NOTPAL1
LOOP BACK3
DISPLAY MSG2
JMP LAST

NOTPAL1: DISPLAY MSG3

LAST: MOV AH, LCH

INT 21H

END

VINEETH

IBM PC5183.