

# Program 4.

Date:

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~~MODEL~~

· MODEL SMALL

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

· DATA

MSG1 DB 0DH, 0AH, "ENTER A string :: \$"

MSG2 DB 0DH, 0AH, "INPUT STRING IS  
PALINDROME. \$"

MSG3 DB 0DH, 0AH, "INPUT STRING IS NOT A  
PALINDROME STRING. \$"

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

BAC1: MOV AH, 01H

INT 21H

CMP AL, 0DH

JZ NEXT



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MOV STR[SI], AL
INC SI
INC LEN
JMP BACK1

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NEXT: MOV SI, 00H
MOV DI, 00H
ADD DI, LEN
DEC DI
MOV CX, LEN

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BACK2: MOV AL, STR[SI]
MOV REVSTR[DI], AL
INC SI
DEC DI
LOOP BACK2

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MOV CX, LEN
MOV SI, 00H
MOV DI, 00H
CLD

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BACK3: MOV BL, STR[SI]
CMP BL, REVSTR[DI]
JNZ NOTPAL1
LOOP BACK3

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DISPLAY MSG2
JMP LAST

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NOTPAL1: DISPLAY MSG3

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LAST: MOV AH, 4CH
INT 21H
END

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