

Date ___/___/___

MODEL SMALL

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

.DATA

MSG1 DB 0DH, 0AH, "ENTER STRING: \$"

MSG2 DB 0DH, 0AH, "ENTER STRING: \$"

MSG3 DB 0DH, 0AH, "IS PALINDROME \$"

MSG4 DB 0DH, 0AH, "INPUT STRING NOT PALINDROME. \$"

STRING DB 80H DUP(?)

RSTRING DB 80H DUP(?)

.CODE

START: MOV AX, @DATA

MOV DS, AX

DISPLAY MSG1

MOV SI, OFFSET STRING

XOR CL, CL

AGAIN: MOV AH, 01H

INT 21H

CMP AL, 0DH

JE NEXT

MOV [SI], AL

INC SI

INC CL

MOV DI, OFFSET RSTRING

BACK: MOV AL, [SI]

MOV [DI], AL

DEC SI

INC DI

DEC CH

Date ___/___/___

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$1  JNZ BACK
    MOV [DI], BYTE PTR '$'
    DISPLAY MSG2
    DISPLAY RSTRING
    MOV SI, OFFSET STRING
    MOV DI, OFFSET RSTRING
AG:  MOV AL, [SI]
     CMP AL, [DI]
     JNE FAIL
     INC SI
     INC DI
     DEC CX
     JZ SUCCESS
     JMP AG
FAIL: DISPLAY MSG4
     JMP FINAL
SUCCESS: DISPLAY MSG3
FINAL: MOV AH, 4CH
       INT 21H
END
    
```