.8086

.model small

.data

msg db 'Enter string(end input with 0):',13,10,'$'

palin db 13,10,'It is a palindrome$'

notpalin db 13,10,'It is not a palindrome$'

inputstorage db 10 dup(?)

.code

start: mov ax, @data

mov ds, ax

lea si, inputstorage

lea dx, msg

mov ah, 09

int 21h

l1: mov ah, 08

int 21h

cmp al, 30h

jz endin

mov dl, al

mov ah, 02

int 21h

inc cl

mov [si], al

inc si

jmp l1

endin: lea di, inputstorage

mov ax, cx

mov cl, 02h

div cl

mov cx, ax

dec si

check: mov al, [si]

cmp al, [di]

jnz notp

inc di

dec si

dec cl

jnz check

lea dx, palin

mov ah, 09

int 21h

jmp done

notp: lea dx, notpalin

mov ah, 09

int 21h

done: mov ah, 4ch

int 21h

end start

