

```
1  DATA SEGMENT
2      MSG1 DB 10,13,"ENTER THE STRING TO check for pal $"
3      MSG2 DB 10,13,"ENTERED STRING IS $"
4      MSG3 DB 10,13,"STRING REVERSE IS $"
5      MSG4 DB 10,13,"STRING IS PAL $"
6      MSG5 DB 10,13,"STRING IS NOT PAL $"
7      MSG6 DB 10,13,"LENGTH OF STRING IS $"
8      P1 LABEL BYTE
9      M1 DB 0FFH
10     L1 DB ?
11     P11 DB 0FFH DUP('$')
12     P22 DB 0FFH DUP('$')
13 DATA ENDS
14
15 DISPLAY MACRO MSG
16     MOV AH,9
17     LEA DX,MSG
18     INT 21H
19 ENDM
20
21 CODE SEGMENT
22     ASSUME CS:CODE,DS:DATA
23     START:
24         MOV AX,DATA
25         MOV DS,AX
26
27         DISPLAY MSG1
28
29         LEA DX,P1
30         MOV AH,0AH
31         INT 21H
32
33         DISPLAY MSG2
34         DISPLAY P11
35         DISPLAY MSG6
36
37         MOV DL,L1
38         ADD DL,30H
39         MOV AH,2
40         INT 21H
41
42         DISPLAY MSG3
43
44         LEA SI,P11
45         LEA DI,P22
46         MOV DL,L1
47         DEC DL
48         MOV DH,0
49         ADD SI,DX
50         MOV CL,L1
51         MOV CH,0
52
53         REVERSE:
54             MOV AL,[SI]
55             MOV [DI],AL
56             INC DI
57             DEC SI
58             LOOP REVERSE
59         DISPLAY P22
60
61         LEA SI,P11
62         LEA DI,P22
63
64         MOV CL,L1
65         MOV CH,0
```

```
66
67     CHECK:
68         MOV AL,[SI]
69         CMP [DI],AL
70         JNE NOTPAL
71         INC DI
72         INC SI
73         LOOP CHECK
74         DISPLAY MSG4
75     JMP EXIT
76     NOTPAL:
77         DISPLAY MSG5
78     EXIT:
79         MOV AH,4CH
80         INT 21H
81
82 CODE ENDS
83 END START
```