```
1
 2
    DATA SEGMENT
 3
    STRING DB 100 DUP(?)
 4
    MSG1 DB 10,13,"ENTER A STRING: $"
 5
    MSG2 DB 10,13,"NO. OF VOWELS_FOUNDS: $"
 6
    VOWELS DW 0
 7
    DATA ENDS
 8
    CODE SEGMENT
9
        ASSUME CS:CODE, DS:DATA
10
        START:
11
          MOV AX, DATA
12
13
          MOV DS, AX
14
          MOV ES, AX
15
          MOV AH, 9
16
          LEA DX, MSG1
17
18
          INT 21H
19
20
          LEA DI, STRING
21
          MOV AH, 1
22
          READ:
23
24
          INT 21H
          CMP AL, 0DH
25
          JE ENDOFSTRING
26
27
          ST0SB
          JMP READ
28
29
30
          ENDOFSTRING:
31
          MOV AL, "$"
          ST0SB
32
33
34
          XOR BX, BX
35
36
          COUNT:
          MOV AL, STRING[BX]
37
38
          CMP AL, "$"
39
          JE EXIT
          CMP AL, "a"
40
          JE VOWEL_FOUND
41
                   <del>"</del>e"
          CMP AL,
42
          JE VOWEL_FOUND
43
          CMP AL,
44
45
          JE VOWEL FOUND
          CMP AL, "o"
46
47
          JE VOWEL FOUND
          CMP AL, "u"
48
49
          JE VOWEL FOUND
          CMP AL, "A"
50
51
          JE VOWEL FOUND
          CMP AL, "E"
52
          JE VOWEL FOUND
53
          CMP AL, "I"
54
55
          JE VOWEL FOUND
          CMP AL, "0"
56
          JE VOWEL_FOUND CMP AL, "U"
57
58
59
          JE VOWEL_FOUND
60
          INC BX
61
          JMP COUNT
62
          VOWEL FOUND:
63
64
          MOV CX, VOWELS
65
          INC CX
```

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```
MOV VOWELS, CX INC BX
66
67
           JMP COUNT
68
69
70
           EXIT:
71
           MOV AH, 9
LEA DX, MSG2
72
73
           INT 21H
74
75
76
           MOV AH, 2
           MOV DX, VOWELS
ADD DX, 30H
77
78
           INT 21H
79
80
           MOV AH,4CH
INT 21H
81
82
83
     CODE ENDS
84
     END START
85
```