

MIT LAB 11

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1. Write ALP to ADD/SUB 'n' 16 bit numbers stored in consecutive memory location

```
.model small

.data
    sum dw ?
    carry db ?
    nums dw 0011h, 0022h, 0033h, 0044h, 0055h

.code
    mov ax,@data
    mov ds,ax

    mov ax, 0000H
    mov cx, 05H ; counter
    mov bl, 00H ; to count carry
    mov si, offset nums ; init si to start of nums
up:
    add ax, [si]
    jnc skip
    inc bl ;
skip:
    inc si
    inc si
    loop up
    mov sum, ax
    mov carry, bl

    mov ah, 4ch
    int 21h
end
```

```

C:\SOURCE\TASM>DEBUG.EXE Q1.EXE
-u
076A:0000 B86C07      MOV     AX,076C
076A:0003 8ED8        MOV     DS,AX
076A:0005 B80000      MOV     AX,0000
076A:0008 B90500      MOV     CX,0005
076A:000B B300        MOV     BL,00
076A:000D BE0900      MOV     SI,0009
076A:0010 0304        ADD     AX,[SI]
076A:0012 7302        JNB     0016
076A:0014 FEC3        INC     BL
076A:0016 46          INC     SI
076A:0017 46          INC     SI
076A:0018 E2F6        LOOP    0010
076A:001A A30600      MOV     [0006],AX
076A:001D 8B1E0800     MOV     [0008],BL
-

```

```

Program terminated normally
-d 076c:0000
076C:0000  00 B4 4C CD 21 00 FF 00-00 11 00 22 00 33 00 44  ..L.!.....".3.D
076C:0010  00 55 00 04 72 05 83 0E-7A 04 04 BE 42 58 B4 00  .U..r...z...BX..
076C:0020  8C 0E 50 34 E8 55 35 89-1E 5E 04 72 05 83 0E 7A  ..P4.U5..^..r...z
076C:0030  04 08 83 3E 7A 04 00 75-03 E9 AE 00 53 8B 1E 38  ...>z..u....S..8
076C:0040  07 C4 7F 02 83 C7 18 3B-3F 76 09 E8 2B F8 5B 73  .....;?v...+.[s
076C:0050  07 E8 EC F7 87 7F 02 5B-8B D7 A1 56 04 AB A1 74  .....[...U...t
076C:0060  07 AB A1 84 07 AB A1 94-07 AB A1 AC 07 AB B8 01  .....T....e.
076C:0070  00 AB B0 00 AB AB AA 8B-1E 54 04 A1 D8 03 40 A3
-

```

2. Write a Program to find smallest/largest number in a given array of 16 bits numbers.

```

.model small

.data
    max dw ?
    min dw ?
    nums dw 1111H, 0EEFFH, 0EFFFH, 2222H, 9999H

.code
    mov ax,@data
    mov ds,ax
    mov si, offset nums ; init si to start of nums
    mov ax, [si]
    mov dx, [si]
    mov cx, 05H ;counter
up:
    cmp ax, [si]

```

```

jnc next
mov ax, [si]
next:
cmp dx, [si]
jc skip
mov dx, [si]
skip:
inc si
inc si
loop up
mov max, ax
mov min, dx
mov ah, 4ch
int 21h
end

```

C:\SOURCE\TASM>DEBUG.EXE Q2.EXE

-u

076A:0000	B86C07	MOV	AX,076C
076A:0003	8ED8	MOV	DS,AX
076A:0005	BE0E00	MOV	SI,000E
076A:0008	8B04	MOV	AX,[SI]
076A:000A	8B14	MOV	DX,[SI]
076A:000C	B90500	MOV	CX,0005
076A:000F	3B04	CMP	AX,[SI]
076A:0011	7302	JNB	0015
076A:0013	8B04	MOV	AX,[SI]
076A:0015	3B14	CMP	DX,[SI]
076A:0017	7202	JB	001B
076A:0019	8B14	MOV	DX,[SI]
076A:001B	46	INC	SI
076A:001C	46	INC	SI
076A:001D	E2F0	LOOP	000F
076A:001F	A30A00	MOV	[000A],AX

-

```

076A:0040 8C0E5034      MOV     [3450],CS
-d 076C:0000
076C:0000  0A 00 89 16 0C 00 B4 4C-CD 21 FF EF 11 11 11 11  .....L.!.....
076C:0010  FF EE FF EF 22 22 99 99-7A 04 04 BE 42 58 B4 00  ....""..z...BX..
076C:0020  8C 0E 50 34 E8 55 35 89-1E 5E 04 72 05 83 0E 7A  ..P4.U5..^.r...z
076C:0030  04 08 83 3E 7A 04 00 75-03 E9 AE 00 53 8B 1E 38  ...>z..u....S..8
076C:0040  07 C4 7F 02 83 C7 18 3B-3F 76 09 E8 2B F8 5B 73  .....;?v...+.ls
076C:0050  07 E8 EC F7 87 7F 02 5B-8B D7 A1 56 04 AB A1 74  .....[...U...t
076C:0060  07 AB A1 84 07 AB A1 94-07 AB A1 AC 07 AB BB 01  .....
076C:0070  00 AB B0 00 AB AB AA 8B-1E 54 04 A1 D8 03 40 A3  .....T....@.
-

```

3. Write a Program to sort 16 bits given numbers in ascending /descending order.

```

.model small

.data
    nums dw 0048H, 0012H, 0111H, 0FFFFh, 9999h

.code
    mov ax, @data
    mov ds, ax
    mov ax, 0000h
    mov bx, 0005h
up1:
    mov si, offset nums
    mov cx, 0005h
up:
    mov dx, [si]
    inc si
    inc si
    mov ax, [si]
    cmp ax, dx
    jnc skip
    xchg [si], dx
    xchg [si - 2], ax
skip:
    loop up
    dec bx
    jnz up1
    mov ah, 4ch
    int 21h
end

```

```

C:\SOURCE\TASM>DEBUG .EXE Q3.EXE
-u
076A:0000 B86C07      MOV     AX,076C
076A:0003 8ED8          MOV     DS,AX
076A:0005 B80000          MOV     AX,0000
076A:0008 BB0500          MOV     BX,0005
076A:000B BE0A00          MOV     SI,000A
076A:000E B90500          MOV     CX,0005
076A:0011 8B14          MOV     DX,[SI]
076A:0013 46          INC     SI
076A:0014 46          INC     SI
076A:0015 8B04          MOV     AX,[SI]
076A:0017 3BC2          CMP     AX,DX
076A:0019 7305          JNB     0020
076A:001B 8714          XCHG    DX,[SI]
076A:001D 8744FE        XCHG    AX,[SI-02]

```

```

Program terminated normally
-d 076c:0000
076C:0000 E2 EF 4B 75 E6 B4 4C CD-21 00 12 00 48 00 11 01 ..Ku..L.!...H...
076C:0010 72 05 99 99 FF FF 83 0E-7A 04 04 BE 42 58 B4 00 r.....z...BX..
076C:0020 8C 0E 50 34 E8 55 35 89-1E 5E 04 72 05 83 0E 7A ..P4.U5...^..r...z
076C:0030 04 08 83 3E 7A 04 00 75-03 E9 AE 00 53 8B 1E 38 ...>z...u....S..8
076C:0040 07 C4 7F 02 83 C7 18 3B-3F 76 09 E8 2B F8 5B 73 .....;?v...+. [s
076C:0050 07 E8 EC F7 87 7F 02 5B-8B D7 A1 56 04 AB A1 74 .....[...U...t
076C:0060 07 AB A1 84 07 AB A1 94-07 AB A1 AC 07 AB B8 01 .....
076C:0070 00 AB B0 00 AB AB AA 8B-1E 54 04 A1 D8 03 40 A3 .....T....@.

```

4. Write a Program to find occurrences of a given number in a list of N numbers given through keyboard.

```

.model small

.8086
.data
    cr equ 0dh
    lf equ 0ah
    msg db "Enter data: $"
    msg1 db cr,lf,"Enter a search charecter: $"
    msg2 db cr,lf,"Frequency: $"
    c db ?
    st1 db 80 dup('$')
    cnt db 0h

print macro msg
    mov ah,09h
    mov dx,offset msg
    int 21h
endm

```

```

.code
    mov ax,@data
    mov ds,ax
    print msg
    mov si,offset st1
    mov cx,0000h
    up:
    mov ah,01h
    int 21h
    cmp al,0dh
    je stp
    mov [si],al
    inc si
    inc cx
    jmp up
    stp:
    print msg1
    mov ah,01h
    int 21h
    mov c,al
    mov si,offset st1
    u:
    mov bl,[si]
    cmp c,bl
    jz down
    inc si
    loop u
    jmp e
    down:
    inc cnt
    inc si
    loop u
    e:
    print msg2
    mov ah,02h
    mov dh,00h
    mov dl,cnt
    add dl,30h
    int 21h
    mov ah,4ch
    int 21h
end

```

```

C:\SOURCE\TASM>DEBUG.EXE Q4.EXE
-u
076A:0000 B86F07      MOV     AX,076F
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0E00      MOV     DX,000E
076A:000A CD21        INT     21
076A:000C BE4600      MOV     SI,0046
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
Enter data: sahilbondre@gmail.com

Enter a search charecter:a
Frequency: 2
Program terminated normally
_

```

5. Write a Program to move a string from source to destination.

```

.model small
.8086

.data
    p1 db "sahil$"
    p2 db 6 dup(0)

.code
    mov ax,@data
    mov ds,ax

    mov si,offset p1
    mov di,offset p2
    mov cx,0006h
up:
    mov al,[si]
    mov [di],al
    inc si
    inc di
    dec cx
    jnz up
    mov ax,4c00h
    int 21h

```

end

```
C:\SOURCE\TASM>DEBUG.EXE Q5.EXE
-u
076A:0000 B86B07      MOV     AX,076B
076A:0003 8ED8        MOV     DS,AX
076A:0005 BE0C00      MOV     SI,000C
076A:0008 BF1200      MOV     DI,0012
076A:000B B90600      MOV     CX,0006
076A:000E 8A04        MOV     AL,[SI]
076A:0010 8805        MOV     [DI],AL
076A:0012 46          INC     SI
076A:0013 47          INC     DI
076A:0014 49          DEC     CX
076A:0015 75F7        JNZ     000E
076A:0017 B8004C      MOV     AX,4C00
076A:001A CD21        INT     21
076A:001C 7361        JNB     007F
076A:001E 68          DB     68
076A:001F 69          DB     69
-
```

```
Program terminated normally
-d 076b:0000
076B:0000 88 05 46 47 49 75 F7 B8-00 4C CD 21 73 61 68 69 ..FGlu...L.!sahi
076B:0010 6C 24 73 61 68 69 6C 24-00 8C 0E 50 34 E8 6C 35 l$sa hil$...P4.l5
076B:0020 89 1E 5C 04 72 05 83 0E-7A 04 04 BE 42 58 B4 00 ..\..r....z...BX..
076B:0030 8C 0E 50 34 E8 55 35 89-1E 5E 04 72 05 83 0E 7A ..P4.U5...^..r...z
076B:0040 04 08 83 3E 7A 04 00 75-03 E9 AE 00 53 8B 1E 38 ...>z..u....S..8
076B:0050 07 C4 7F 02 83 C7 18 3B-3F 76 09 E8 2B F8 5B 73 .....;?v...+.[s
076B:0060 07 E8 EC F7 87 7F 02 5B-8B D7 A1 56 04 AB A1 74 .....[...U...t
076B:0070 07 AB A1 84 07 AB A1 94-07 AB A1 AC 07 AB B8 01 .....
-
```

6. Write a Program to reverse a given string.

```
model small
.8086

.data
cr equ 0dh
lf equ 0ah
msg db "Enter string: $"
msg1 db cr,lf, "String: $"
msg2 db cr,lf, "Reverse: $"
st1 db 80 dup('$')
st2 db 80 dup('$')
```



```
    print macro msg
    mov ah,09h
    mov dx,offset msg
    int 21h
endm
```

```
.code
```

```
    mov ax,@data
    mov ds,ax
    print msg
    mov si,offset st1
    mov cx,0000h
up:
    mov ah,01h
    int 21h
    cmp al,0dh
    je stp
    mov [si],al
    inc si
    inc cx
    jmp up
stp:
    print msg1
    print st1
    mov si,offset st1
    add si,cx
    dec si
    mov di,offset st2
m:
    mov bl,[si]
    mov [di],bl
    dec si
    inc di
    dec cx
    jnz m
    print msg2
    print st2
    mov ah,4ch
    int 21h
end
```

```

C:\SOURCE\TASM>DEBUG.EXE Q6.EXE
-u
076A:0000 B86F07      MOV     AX,076F
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0200      MOV     DX,0002
076A:000A CD21        INT     21
076A:000C BE2800      MOV     SI,0028
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
Enter string: sahil

String: sahil
Reverse: lihas
Program terminated normally
-
```

7. Write a Program to perform case conversion (U to L, L to U) for a given string.

To uppercase:

```

model small
.8086

.data
    cr equ 0dh
    lf equ 0ah
    msg db "Enter a string: $"
    msg1 db cr,lf, "String: $"
    msg2 db cr,lf, "Uppercase: $"
    st1 db 80 dup('$')
    st2 db 80 dup('$')

print macro msg
    mov ah,09h
    mov dx,offset msg
    int 21h
endm

.code
    mov ax,@data
    mov ds,ax
```

```

print msg
mov si,offset st1
mov cx,0000h
up:
mov ah,01h
int 21h
cmp al,0dh
je stp
mov [si],al
inc si
inc cx
jmp up
stp:
print msg1
print st1
mov si,offset st1
mov di,offset st2
u:
mov al,[si]
cmp al,'a'
jb next
cmp al,'z'
ja next
sub al,20h
next: mov [di],al
inc si
inc di
loop u
print msg2
print st2

mov ah,4ch
int 21h
end

```

```

C:\SOURCE\TASM>DEBUG.EXE Q7a.EXE
-u
076A:0000 B86F07      MOV     AX,076F
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0800      MOV     DX,0008
076A:000A CD21        INT     21
076A:000C BE3200      MOV     SI,0032
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
Enter a string: sahil

String: sahil
Uppercase: SAHIL
Program terminated normally
-

```

```

.model small
.8086

.data
    cr equ 0dh
    lf equ 0ah
    msg db "Enter a string: $"
    msg1 db cr,lf, "String: $"
    msg2 db cr,lf, "Lowecase: $"
    st1 db 80 dup('$')
    st2 db 80 dup('$')
    print macro msg
        mov ah,09h
        mov dx,offset msg
        int 21h
    endm

.code
    mov ax,@data
    mov ds,ax
    print msg
    mov si,offset st1
    mov cx,0000h
up:
    mov ah,01h

```

```
int 21h
cmp al,0dh
je stp
mov [si],al
inc si
inc cx
jmp up
stp:
print msg1
print st1
mov si,offset st1
mov di,offset st2
u:
mov al,[si]
cmp al,'A'
jb next
cmp al,'Z'
ja next
add al,20h
next: mov [di],al
inc si
inc di
loop u
print msg2
print st2
mov ah,4ch
int 21h
end
```

```

C:\SOURCE\TASM>DEBUG.EXE Q7b.EXE
-u
076A:0000 B86F07      MOV     AX,076F
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0800      MOV     DX,0008
076A:000A CD21        INT     21
076A:000C BE3000      MOV     SI,0030
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
Enter a string: SAHIL

String: SAHIL
Lowecase:sahil
Program terminated normally
_

```

8. Write a Program to merge two strings entered through keyboard.

```

model small
.8086

.data
    cr equ 0dh
    lf equ 0ah
    msg db "First String: $"
    msg1 db cr,lf,"Second String: $"
    msg2 db cr,lf,"Concat: $"
    st1 db 80 dup('$')
    st2 db 80 dup('$')
    st3 db 80 dup('$')

print macro msg
    mov ah,09h
    mov dx,offset msg
    int 21h
endm

.code
    mov ax,@data
    mov ds,ax
    print msg

```

```

mov si,offset st1
mov cx,0000h
up:
mov ah,01h
int 21h
cmp al,0dh
je stp
mov [si],al
inc si
inc cx
jmp up
stp:
print msg1
mov si,offset st2
mov dh,00h
u:
mov ah,01h
int 21h
cmp al,0dh
je s
mov [si],al
inc si
inc dh
jmp u
s:
mov si,offset st1
mov di,offset st3
me:
mov dl,[si]
mov [di],dl
inc si
inc di
loop me
mov si,offset st2
go:
mov dl,[si]
mov [di],dl
dec cx
inc si
inc di
dec dh
jnz go
print msg2
print st3
mov ah,4ch
int 21h

```

end

```
C:\SOURCE\TASM>DEBUG.EXE Q8.EXE
-u
076A:0000 B87007      MOV     AX,0770
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0A00      MOV     DX,000A
076A:000A CD21        INT     21
076A:000C BE3600      MOV     SI,0036
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
First String: Hello

Second String: World

Concat: HelloWorld
Program terminated normally
-
```

9. Write a Program to search a character in a given string

```
model small
.8086

.data
    cr equ 0dh
    lf equ 0ah
    msg db "Enter String: $"
    msg1 db cr,lf,"Enter Search Charecter: $"
    msg2 db cr,lf,"Found!$"
    msg3 db cr,lf,"Not Found$"
    c db ?
    st1 db 80 dup('$')

print macro msg
    mov ah,09h
    mov dx,offset msg
    int 21h
```


endm

.code

mov ax,@data

mov ds,ax

print msg

mov si,offset st1

mov cx,0000h

up:

mov ah,01h

int 21h

cmp al,0dh

je stp

mov [si],al

inc si

inc cx

jmp up

stp:

print msg1

mov ah,01h

int 21h

mov c,al

mov si,offset st1

u:

mov bl,[si]

cmp c,bl

jz down

inc si

loop u

print msg3

jmp e

down:

print msg2

e: mov ah,4ch

int 21h

end

```

C:\SOURCE\TASM>DEBUG.EXE Q9.EXE
-u
076A:0000 B86F07      MOV     AX,076F
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0200      MOV     DX,0002
076A:000A CD21        INT     21
076A:000C BE4200      MOV     SI,0042
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
Enter String: sahil

Enter Search Charecter: s
Found!
Program terminated normally
-
-

```

10. Write a Program to find occurrences of a given character in a given string through keyboard.

```

.model small

.8086
.data
    cr equ 0dh
    lf equ 0ah
    msg db "Enter data: $"
    msg1 db cr,lf,"Enter a search charecter:$"
    msg2 db cr,lf,"Frequency: $"
    c db ?
    st1 db 80 dup('$')
    cnt db 0h

print macro msg
    mov ah,09h
    mov dx,offset msg
    int 21h
endm

.code

```

```

mov ax,@data
mov ds,ax
print msg
mov si,offset st1
mov cx,0000h
up:
mov ah,01h
int 21h
cmp al,0dh
je stp
mov [si],al
inc si
inc cx
jmp up
stp:
print msg1
mov ah,01h
int 21h
mov c,al
mov si,offset st1
u:
mov bl,[si]
cmp c,bl
jz down
inc si
loop u
jmp e
down:
inc cnt
inc si
loop u
e:
print msg2
mov ah,02h
mov dh,00h
mov dl,cnt
add dl,30h
int 21h
mov ah,4ch
int 21h
end

```

```

C:\SOURCE\TASM>DEBUG.EXE Q4.EXE
-u
076A:0000 B86F07      MOV     AX,076F
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0E00      MOV     DX,000E
076A:000A CD21        INT     21
076A:000C BE4600      MOV     SI,0046
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
Enter data: sahilbondre@gmail.com

Enter a search charecter:a
Frequency: 2
Program terminated normally
_

```

11. Program to check whether given substring exist in a main string or not?

```

model small
.8086

.data
    cr equ 0dh
    lf equ 0ah
    msg db "Enter String: $"
    msg1 db cr,lf,"Enter Substring: $"
    msg2 db cr,lf,"Found!$"
    msg3 db cr,lf,"Not Found$"
    st1 db 80 dup('$')
    st2 db 80 dup('$')

print macro msg
    mov ah,09h
    mov dx,offset msg
    int 21h
endm

.code
    mov ax,@data
    mov ds,ax
    print msg

```

```
mov si,offset st1
mov cx,0000h
up:
mov ah,01h
int 21h
cmp al,0dh
je stp
mov [si],al
inc si
inc cx
jmp up
stp:
print msg1
mov si,offset st2
mov bx,0000h
u:
mov ah,01h
int 21h
cmp al,0dh
je stop
mov [si],al
inc si
inc bx
jmp u
stop:
mov si,offset st1
mov di,offset st2
cmp cx,bx
jc down
mov dx,0000h
go:
mov al,[si]
cmp al,[di]
je me
mov dx,0000h
mov di,offset st2
inc si
loop go
jmp en
me:
inc dx
inc si
inc di
cmp dx,bx
jnz go
en:
```

```

cmp dx,bx
jnz down
print msg2
jmp e
down:
print msg3
e: mov ah,4ch
int 21h
end

```

```

-u
076A:0000 B87107      MOV     AX,0771
076A:0003 8ED8        MOV     DS,AX
076A:0005 B409        MOV     AH,09
076A:0007 BA0A00      MOV     DX,000A
076A:000A CD21        INT     21
076A:000C BE4200      MOV     SI,0042
076A:000F B90000      MOV     CX,0000
076A:0012 B401        MOV     AH,01
076A:0014 CD21        INT     21
076A:0016 3C0D        CMP     AL,0D
076A:0018 7406        JZ      0020
076A:001A 8804        MOV     [SI],AL
076A:001C 46          INC     SI
076A:001D 41          INC     CX
076A:001E EBF2        JMP     0012
-g
Enter String: sahil

Enter Substring: ah

Found!
Program terminated normally
-

```