

U19CS076

Kaithikha
Balamurugan
~~Kaithikha~~

MIT-TUT

Write ALP to implement following

dosseg
"model small
.8086

.data

n db ?

ans db 00h

x db ?

y db "\$"

cr equ 0dh

lf equ 0ah

msg1 db "n = \$"

msg2 db "Enter number list: \$"

msg3 db "Enter value to be inserted: \$"

msg4 db "Enter position of insertion: \$"

r db ?

print macro msg

mov ah, 09h

mov dx, offset msg

int 21h

endm

read macro no

mov ~~ah~~ ah, 01h

int 21h

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Kruthika Balamurugan
Kruthika

```
sub al, '0'  
mov bl, 0ah  
mul bl  
mov no, al  
mov ah, 01h  
int 21h  
sub al, '0'  
add no, al  
end m
```

```
.code  
mov ax, @data  
mov ds, ax  
print msg1  
read n  
prints msg2  
print msg3  
read x  
print msg4  
read n2  
print msg2  
mov ch, 00h  
mov cl, n
```