



m16.asm



File Edit View

```
data segment
msg1 db 0ah,0dh,"first no$"
msg2 db 0ah,0dh,"second no$"
msg3 db 0ah,0dh,"result$"
n1 db 07h dup(?)
n2 db 07h dup(?)
data ends

display macro msg
lea dx,msg
mov ah,09h
int 21h
endm

readDigit macro
mov ah,01h
int 21h
sub al,30h
endm

printDigit macro
add dl,30h
mov ah,02h
int 21h
endm

code segment
assume cs:code,ds:data
start:
mov ax,data
mov ds,ax
mov si,offset n1
mov di,offset n2
display msg1
mov cl,04h

first:
readDigit
```





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```
first:
readDigit
mov[si],al
inc si
dec cl
jnz first
display msg2
mov cl,04h
```

```
second:
readDigit
mov[di],al
inc di
dec cl
jnz second
clc
mov cl,04h
```

```
addition:
dec di
dec si
mov al,[si]
mov bl,[di]
adc al,bl
mov ah,00h
aaa
mov [di],al
dec cl
jnz addition
display msg3
mov cl,04h
print:
mov dl,[di]
printDigit
inc di
dec cl
```







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```
jnz first  
display msg2  
mov cl,04h
```

```
second:  
readDigit  
mov[di],al  
inc di  
dec cl  
jnz second  
clc  
mov cl,04h
```

```
addition:  
dec di  
dec si  
mov al,[si]  
mov bl,[di]  
adc al,bl  
mov ah,00h  
aaa  
mov [di],al  
dec cl  
jnz addition  
display msg3  
mov cl,04h  
print:  
mov dl,[di]  
printDigit  
inc di  
dec cl  
jnz print  
mov ah,4ch  
int 21h  
code ends  
end start
```

