

```
include 'emu8086.inc'
```

```
ORG 100h
```

```
arxi:
```

```
mov bl,00h
```

```
mov cl,00h
```

```
mov bh,00h
```

```
mov ch,00h
```

```
mov cl,04h
```

```
CALL pthis
```

```
DB 'Give up to 4 characters: ', 0
```

```
diavasma:
```

```
mov ah,08h
```

```
int 21h
```

```
cmp al,90
```

```
jz Telos
```

```
cmp al,48
```

```
jc diavasma
```

```
cmp al,3Ah ;???????? ?? ?? ?????? ??? 9
```

```
jnc diavasma
```

```
mov ah,0Eh
```

int 10h

cmp al,48

jz artios

cmp al,49

jz perittos

cmp al,50

jz artios

cmp al,51

jz perittos

cmp al,52

jz artios

cmp al,53

jz perittos

cmp al,54

jz artios

cmp al,55

jz perittos

cmp al,56

jz artios

cmp al,57

jz perittos

jmp diavasma

artios:

mov bh,al

sub al,48

add bl,al

mov bh,al

mov al,bl

add al,48

;CALL pthis

;DB 'this is artios', 0

mov al,bh

mov bh,00

dec cl

jz diafora

jmp diavasma

perittos:

mov bh,al

sub al,48

add ch,al

mov al,ch

add al,48

```
;CALL pthis
```

```
;DB 'this is perittos', 0
```

```
mov al,bh
```

```
mov bh,00
```

```
dec cl
```

```
jz diafora
```

```
    jmp diavasma
```

```
diafora:
```

```
    sub ch,48
```

```
    sub bl,48
```

```
    cmp bl,ch
```

```
    jc mikrotero
```

```
    sub bl,ch
```

```
    mov al,bl
```

```
    add al,48
```

```
    CALL pthis
```

```
;db 13,10,0
```

```
    DB ' this is diafora ', 0
```

```
    mov ah,0Eh
```

```
int 10h
```

```
    jmp Telos
```

mikrotero:

CALL pthis

;db 13,10,0

DB 'this is diafora ', 0

mov cl,2Dh

mov al,cl

mov ah,0Eh

int 10h

sub ch,bl

mov al,ch

add al,48

mov ah,0Eh

int 10h

Telos:

call pthis

DB 13,10,0

jmp arxi

ret

DEFINE_PTHIS

END

