

Model small

Stack 100H

Data

source string

list DB 1,4,0,9,7,2,4,6,3,5

code

main proc

initialize the ds and es registers

1 mov ax, @Data / CAC thanh ghi

2 mov ds, ax / CAC thanh ghi

3 cld

4 mov cx, 9 / CAC tic thoi

5 lea si, list; si points to list / CAC thanh ghi

6 mov bl, [si]; max ← 1st element / gan tiep qua thanh ghi

7 inc si / CAC tic thoi

8 Start:

9 lodsb / CAC tung tui chi so

10 cmp al, bl / CAC thanh ghi

11 jle BYPASS

12 mov bl, al; $al > bl \rightarrow bl$ ^{to} store new max / CAC thanh ghi

13 BYPASS:

14 loop Start

15 ; print the max

16 add bl, '0'; digit to char / CAC tic thoi

17 mov dx, bl / CAC thanh ghi

18 mov ah, 2 / CAC tic thoi

19 int 21H

20 ; end program

21 mov ah, 4CH / CAC tic thoi

22 int 21H ~~/ CAC tic thoi~~

main endp

End main

23. lea cx, [bx][di] / ~~đọc~~ ^{gián} tiếp qua thanh ghi
 24. mov di, [si] / ~~gián tiếp qua thanh ghi~~
 25. mov ax, table[bx] / ~~gián tiếp qua thanh ghi~~
 26. mov ax, [bx][si]+8 / ~~đọc tổng đối chỉ số cơ sở~~
 27. add cx, [bx]+10 / ~~đọc tổng đối cơ sở~~
 28. sub cx, [bx] / ~~đọc~~ ^{gián} tiếp qua thanh ghi