

1. 下列程序执行完后,物理地址单元01070H的内容是什么?

MOV AX,00E0H

MOV DS,AX

MOV BX,0200H

MOV CX,BX

NEXT: MOV [BX],BL

INC BL

LOOP NEXT

MOV AH,4CH

INT 21H

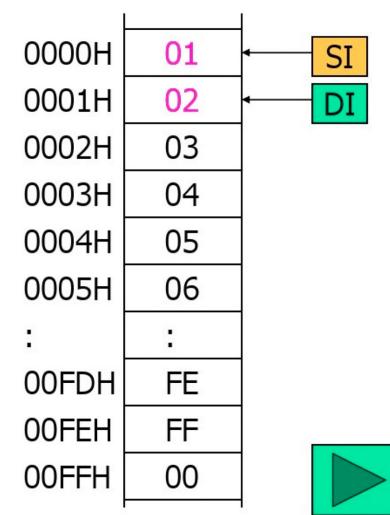
解答这类问题,首先要明确物理地址和逻辑地址的关系,物理地址01070H对应到00E0H段的偏移地址为01070H-00E00H=270H,执行上述程序段可知该单元内容为70H。



2. 已知当前的DS和ES指向同一段,且当前数据段从0000H到00FFH的内容分别是01, 02, 03, ..., 0FEH, 0FFH, 00H, 问下列程序执行后,0000H

~00FFH单元的内容有什么变化?

MOV	DI, 0001H
MOV	SI, 0000H
MOV	CX, 0080H
CLD	
REP	MOVSW
MOV	AH, 4CH
INT	21H

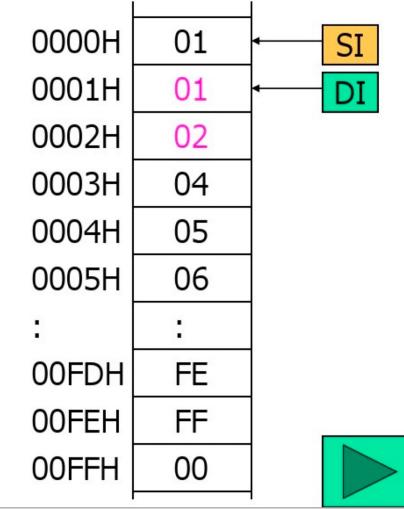




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MOV	DI, 0001H
MOV	SI, 0000H
MOV	CX, 0080H
CLD	
REP	MOVSW
MOV	AH, 4CH
INT	21H





3. 填充下面程序的空白,使程序完成预定功能。程序的功能是将在NUMB开始的单元存放的一组数据中的正数和负数分别挑出来,并分别存入NUMP和NUMM开始的单元,其个数分别放入CNTP和CNTM单元。已知原数据的个数存放在CNTB单元。

```
CL,CNTB
                                            MOV
DSEG
      SEGMENT
                                                                       UP:
                                                                              LOOP
                                                                                    NEXT
NUMB
          10,-1,90,123,24,-17,30H,99,103,-1
      DB
                                            MOV
                                                   CH,(
                                                                              MOV
                                                                                     CNTM,DL
CNTB
      DB
          10
                                            XOR
                                                   DX,DX
                                                                              MOV
                                                                                     CNTP,DH
CNTP
      DB
          0
                                            MOV
                                                   SI,OFFSET NUMB
                                                                              MOV
                                                                                     AH,4CH
CNTM
      DB
          0
                                                   DI,OFFSET NUMM
                                            MOV
NUMP
      DB
          10 DUP (0)
                                                                              INT
                                                                                     21H
                                            MOV
                                                   BX,OFFSET NUMP
NUMM DB
          10 DUP (0)
                                                                       PLUS: MOV
                                                                                     [BX],AL
DSEG
      ENDS
CSEG
      SEGMENT
                                     NEXT: LODSB
                                                                              INC
                                                                                     DH
      ASSUME CS:CSEG,DS:DSEG,ES:DSEG
                                                                              JMP
                                                                                     UP
START: MOV
           AX,DSEG
                                            JNS
                                                  PLUS
                                                                       CSEG ENDS
      MOV
            DS,AX
                                            STOSB
      MOV
            ES,AX
                                                                              END
                                                                                     START
                                            INC
                                                 DL
```



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```
CL,CNTB
                                            MOV
DSEG
      SEGMENT
                                                                       UP:
                                                                              LOOP
                                                                                    NEXT
NUMB
          10,-1,90,123,24,-17,30H,99,103,-1
      DB
                                            MOV
                                                   CH,( 0
                                                                              MOV
                                                                                     CNTM,DL
CNTB
      DB
          10
                                            XOR
                                                   DX,DX
                                                                              MOV
                                                                                     CNTP,DH
CNTP
      DB
          0
                                            MOV
                                                   SI,OFFSET NUMB
                                                                              MOV
                                                                                     AH,4CH
CNTM
      DB
          0
                                                   DI,OFFSET NUMM
                                            MOV
NUMP
      DB
          10 DUP (0)
                                                                              INT
                                                                                     21H
                                            MOV
                                                   BX,OFFSET NUMP
NUMM DB
          10 DUP (0)
                                                                       PLUS: MOV
                                                                                     [BX],AL
DSEG
      ENDS
                                           (CLD
                                                                             (INC
                                                                                     BX
CSEG
      SEGMENT
                                     NEXT: LODSB
                                                                              INC
                                                                                     DH
      ASSUME CS:CSEG,DS:DSEG,ES:DSEG
                                           (AND
                                                  AL.AL
                                                                              JMP
                                                                                     UP
START: MOV
           AX,DSEG
                                            JNS
                                                  PLUS
                                                                       CSEG ENDS
      MOV
            DS,AX
                                            STOSB
      MOV
            ES,AX
                                                                              END
                                                                                     START
                                            INC
                                                 DL
```



4. 编程: 计算下述数据的平均值,并将大于平均值的数据存入AE开始的单元。已知数据为无符号数,数据个数存储在CNT中。数据段初始状态如下:

1:DSEG SEGMENT

2: DATA DW 1524, 2748, 13, 56, 47, 634

3:CNT DW 6

4:AE DW 6 DUP (0)

5:DSEG ENDS

4. 编程:计算下述数据的平均值,并将大于平均值的数据存入AE开始的单元。已知数据为无符号数,数据个数存储在CNT中。数据段初始

```
状态如下: 1:DSEG
                           SEGMENT
               2:DATA
                           DW
                                   1524, 2748, 13, 56, 47, 634
               3:CNT
                                    6
               4:AE
                           DW
                                   6 DUP (0)
               5:DSEG
                           ENDS
               6:CSEG
                           SEGMENT
                           ASSUME
                                   DS:DSEG, CS:CSEG
               8:START:
                                   AX, DSEG
                           MOV
               9:
                           MOV
                                   DS, AX
               10:
                                              : 或者改为 MOV SI, OFFSET
                           LEA
                                   SI, DATA
               11:
                           MOV
                                   CX, CNT
               12:
                           PUSH
                                   CX
                           XOR
                                   AX, AX
                           XOR
                                   DX, DX
```

AX, [SI]



13: AGAIN:

ADD

4. 编程:计算下述数据的平均值,并将大于平均值的数据存入AE开始的单元。已知数据为无符号数,数据个数存储在CNT中。数据段初始状态如下:

1:DSEG	SEGMENT			ADC	DX, O			
2:DATA	DW	1524, 2748, 13, 56, 47, 634	14:	ADD	SI, 2			
3:CNT	DW	6	15:	DEC	CL CL			
4:AE	DW	6 DUP (0)	16:	JNZ	AGAIN			
5:DSEG	ENDS		17:	POP	CX			
6:CSEG	SEGMENT							
			18:	DIV	CX			
7:	ASSUME	DS:DSEG, CS:CSEG	19:	XOR	BP, BP			
8:START:	MOV	AX, DSEG	20: REPT1:	SUB	SI, 2			
9:	MOV	DS, AX	21:	CMP	AX, [SI]	27:	MOV	AH, 4CH
10:	LEA	SI, DATA ; 或者改为 MOV	22:	JNB	NEXT	28:	INT	21H
11:	MOV	CX, CNT	23:	MOV	DX, [SI]	29: DSEG:	ENDS	
12:	PUSH	CX		MOV	DS: AE[BP], DX	30:	END	START
	XOR	AX, AX	24:	ADD	BP, 2			
	XOR	DX, DX	25: NEXT:	DEC	CX			
13: AGAIN:	ADD	AX, [SI]	26:	JNZ	REPT1			