微机 第4章 张沛相瑞 20211414 50152

4.1 AX=9

AX=1

AX=1E14 H

AX=281E H

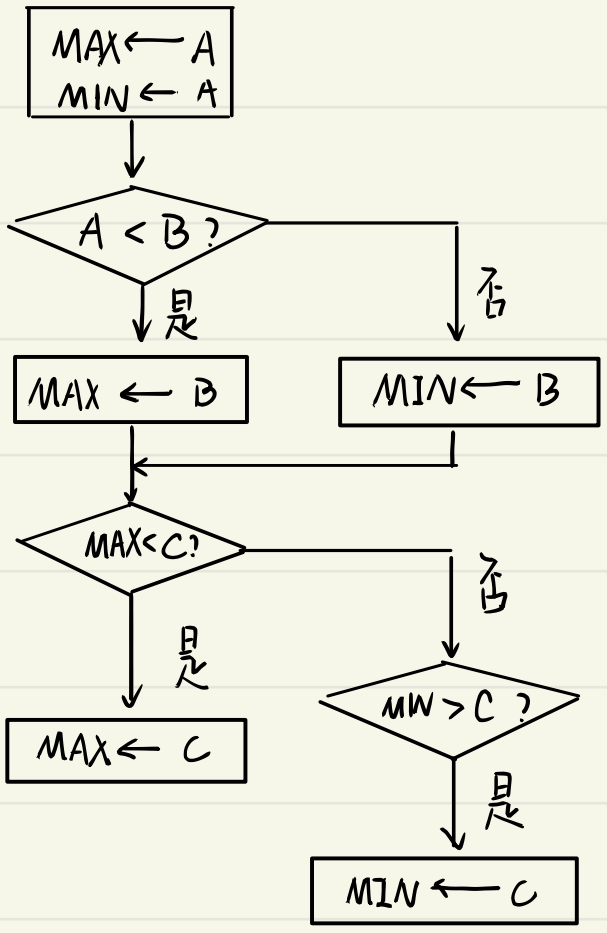
AX=0014 H

AX=3C32 H

4.2 地址增加 ↓

STRING	31 H	1
	32 H	2
ADDR	00 H	
	00 H	
DW1	?	
	FF	-1
	?	
	FF	-1
DD1	78H	
	J6 H	
	34 H	
	12 H	
DW2	02H	
	00H	

4.3




```
DATA  SEGMENT
    MAX  DB  A
    MIN  DB  A
DATA  ENDS
STACK SEGMENT
    DW 64DUP(?)
STACK ENDS
CODE  SEGMENT
    ASSUME CS:CODE, DS:DATA, SS:STACK
START:
    MOV AX, DATA
    MOV DS, AX
    MOV AX, A
    MOV BX, B
    CMP AX, BX
    JS one
    MOV MIN, B
    JMP two
one MOV MAX, BX
two MOV CX, C
    CMP MAX, CX
    JS three
    CMP MIN, CX
    JNS four
```

注释

A-B

A<B

MAX-C

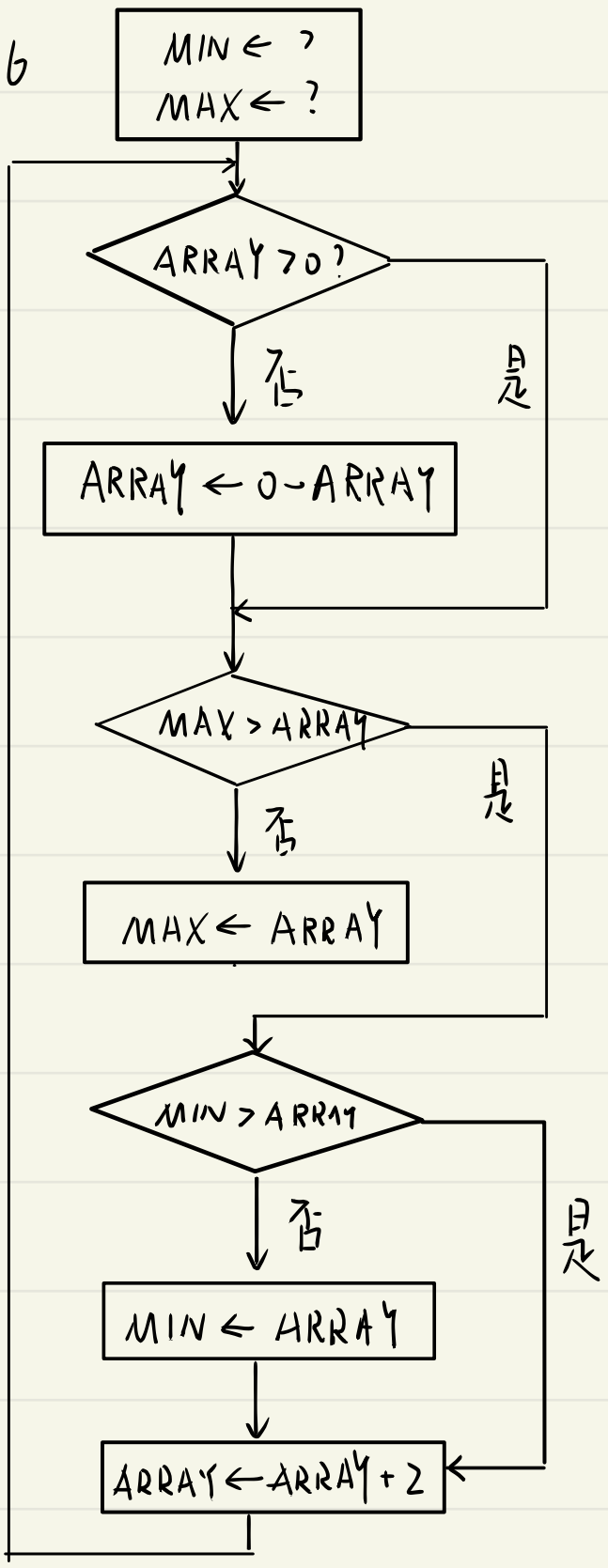
MAX<C

```
four    MOV MIN, CX
        JMP five
three   MOV MAX, CX
five    MOV AH 4CH
        INT 21H
        CODE ENDS
        END STATE
```

MIN<C

MIN>C

4.6




```
DATA    SEGMENT
        MAX DW ?
        MIN DW?
DATA    ENDS
STACK SEGMENT
        DW 50DUP(?)
STACK ENDS
CODE  SEGMENT
        ASSUME CS:CODE, DS:DATA, SS:STACK
START:
        MOV AX, DATA
        MOV DS, AX
        MOV CX, 50
        MOV BX, ARRAY
        MOV MAX, [BX]
        MOV MIN [BX]
        MOV CX, 50
AGAIN   CMP [BX], 0
        JG  one
        NEG [BX]
one     CMP MAX [BX]
        JG  two
        MOV MAX, [BX]
two     CMP MIN [BX]
        JNG three
        MOV MIN [BX]
three   MOV BX, BX+
        LOOP AGAIN
        MOV AH 4CH
        INT 21H
        CODE ENDS
        END STATE
```

注释

[BX]-0

[BX]>0

BX← 0-BX

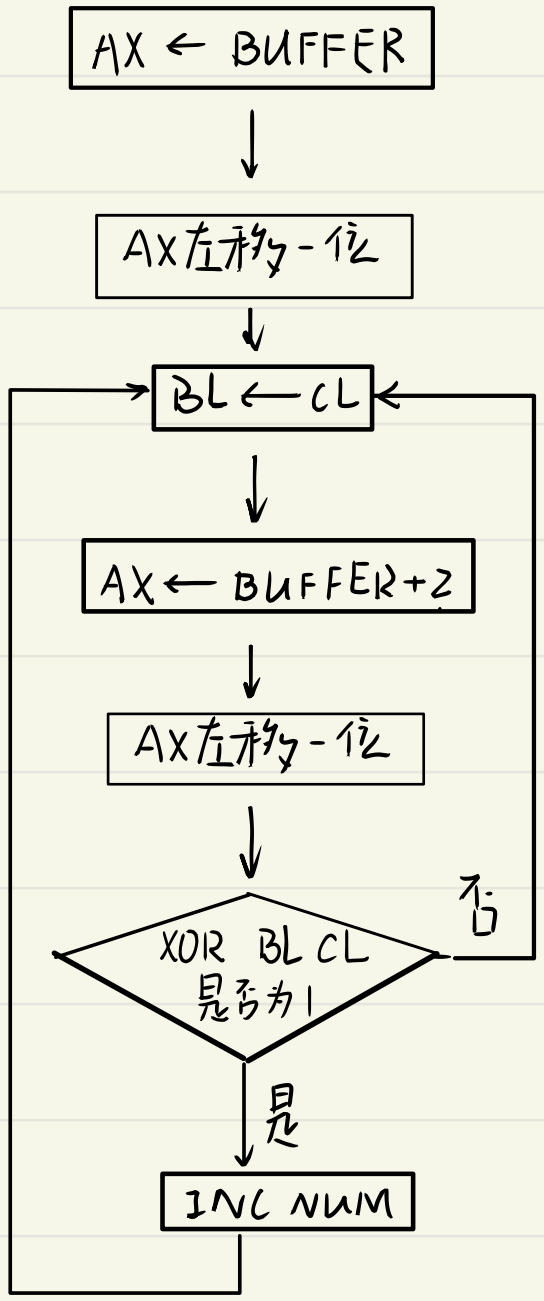
MAX-[BX]

MAX>BX

MIN-[BX]

MIN≤BX

4.7




```
DATA  SEGMENT
    NUM DW 0
    BUFFER DW 100DUP ?
DATA  ENDS
STACK SEGMENT
    DW 50DUP(?)
STACK ENDS
CODE  SEGMENT
    ASSUME CS:CODE, DS:DATA, SS:STACK
START:
    MOV AX, DATA
    MOV DS, AX
    MOV CX, 100
    MOV AX,[BUFFER]
    SHL AX, 1
AGAIN MOV BL, CL
    MOV AX, [BUFFER+2]
    SHL AX, 1
    XOR BL, CL
    JZ one          若JZ=0 则二者相同
    INC NUM
one LOOP AGAIN
    MOV AH 4CH
    INT 21H
    CODE ENDS
    END STATE
```