

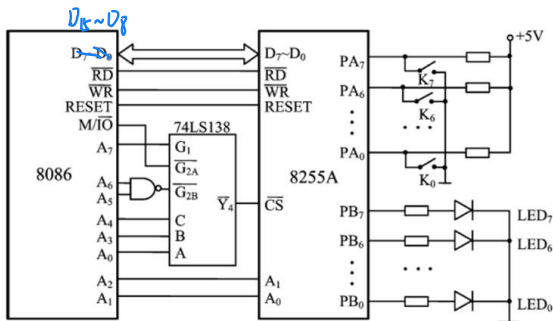
1. 程序如下所示

```

MOV BX, 1000H
MOV CX, 100
READ_S1: IN AL, 81H
TEST AL, 02H
JZ READ_S1
IN AL, 80H
MOV [BX], AL
INC BX
LOOP READ_S1
MOV BX, 2000H
MOV CX, 100
READ_S2: IN AL, 81H
TEST AL, 01H
JNZ READ_S2
MOV AL, BX
OUT 80H, AL
INC BX
LOOP READ_S1

```

2.



将 8255A 的  $D_7 \sim D_0$  接在数据总线的  
 高 8 位地址  $D_7 \sim D_0$  可使接口地址为奇地址口

3. 改为共阳极接法后当  $P8 = 1$  时对应的 LED 管会亮，  
由此可得 0~F 的七段代码为

共阴极	共阳极
0: 0100 0000	→ 0011 1111 → 3FH
1: 0111 1001	→ 0000 0110 → 06H
2: 0010 0100	→ 0101 1011 → 5BH
3: 0011 0000	→ 0100 1111 → 4FH
4: 0001 1001	→ 0110 0110 → 66H
5: 0001 0010	→ 0110 1101 → 6DH
6: 0000 0010	→ 0111 1101 → 70H
7: 0111 1000	→ 0000 0111 → 07H
8: 0000 0000	→ 0111 1111 → 7FH
9: 0001 1000	→ 0110 0111 → 67H
10: 0000 1000	0111 0111 → 77H
11: 0000 0011	0111 1100 → 7CH
12: 0100 0110	0011 1001 → 39H
13: 0010 0001	0101 1110 → 5DH
14: 0000 0110	0111 1001 → 79H
15: 0000 1110	0111 0001 → 71H

程序应当修改为:

```

DATA SEGMENT
TABLE DB 3FH, 06H, 5BH, 4FH, 66H, 6DH, 70H, 07H
      7FH, 67H, 77H, 7CH, 39H, 5DH, 79H, 71H
DATA ENDS
CODE SEGMENT
ASSUME CS:CODE, DS:DATA
MOV AL, 90H
OUT 63, AL
IN-PA: IN AL, 60H
AND AL, 0FH
MOV BX, OFFSET TABLE
XLAT
OUT 61H, AL
CALL DELAY
JMP IP-PA
DELAY: ...
MOV AH, 4CH
INT 21H
CODE ENDS
END

```

4. 键C在0行0列,压下后从B口可读得 $D_4=0$ 和 $D_3=0$ ,其余位为1  
故其编码为1110011B=ETH

5. 由要求可得控制字为:

10001010

程序为: MOV AL, 10001010B

OUT 86H, AL

