

```
RD EQU P3.0
WR EQU P3.1
RS EQU P3.2
RES EQU P3.3
CS1 EQU P3.4
COM EQU 30H
DAT EQU 31H
    ORG 0000H
    AJMP MAIN
    ORG 0050H
MAIN: CLR RES
    LCALL DELAY
    LCALL DELAY
    SETB RES
    LCALL DELAY
    MOV COM,#0A0H
    LCALL PR1
    MOV COM,#0AEH
    LCALL PR1
    MOV COM,#0A2H
    LCALL PR1
    ;MOV COM,#0A6H
    ;LCALL PR1
    ;MOV COM,#0A4H
    ;LCALL PR1
    ;MOV COM,#0ACH
    ;LCALL PR1
    MOV COM,#0C8H
    LCALL PR1
    MOV COM,#02FH
    LCALL PR1
    MOV COM,#040H
    LCALL PR1
    MOV COM,#023H
    LCALL PR1
    MOV COM,#081H
    LCALL PR1
    MOV COM,#014H
    LCALL PR1
```

```
AD1: MOV R2,#00H
    MOV R4,#0B1H
    MOV R5,#00H
    MOV R3,#10H
    MOV R1,#00H
ADD1: MOV COM,R4
    LCALL PR1
    MOV COM,R5
    LCALL PR1
    MOV COM,R3
    LCALL PR1
TAB1: MOV A,#055H
    MOV DAT,A
    LCALL PR2
    INC R2
```

```
MOV COM,#0AFH
LCALL PR1
CJNE R2,#060H,TAB1
MOV R2,#00H
INC R1
INC R4
MOV COM,R4
LCALL PR1
MOV R5,#00H
MOV COM,R5
LCALL PR1
MOV R3,#10H
MOV COM,R3
LCALL PR1
CJNE R1,#04H,TAB1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
```

```
;AJMP $
```

```
AD2: MOV R2,#00H
MOV R4,#0B1H
MOV R5,#00H
MOV R3,#10H
MOV R1,#00H
ADD2:MOV COM,R4
LCALL PR1
MOV COM,R5
LCALL PR1
MOV COM,R3
LCALL PR1
TAB2:MOV A,#0AAH
MOV DAT,A
LCALL PR2
INC R2
MOV COM,#0AFH
LCALL PR1
CJNE R2,#060H,TAB2
MOV R2,#00H
INC R1
INC R4
MOV COM,R4
LCALL PR1
MOV R5,#00H
MOV COM,R5
LCALL PR1
MOV R3,#10H
MOV COM,R3
```

```

LCALL PR1
CJNE R1,#04H,TAB2
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
AD13: MOV R2,#00H
      MOV R4,#0B1H
      MOV R5,#00H
      MOV R3,#10H
      MOV R1,#00H
ADDD13:MOV COM,R4
        LCALL PR1
        MOV COM,R5
        LCALL PR1
        MOV COM,R3
        LCALL PR1
        MOV DPTR,#TABLE13
TAB13: CLR A
        MOVC A,@A+DPTR
        MOV DAT,A
        LCALL PR2
        INC DPTR
        INC R2
        MOV COM,#0AFH
        LCALL PR1
        CJNE R2,#060H,TAB13
        MOV R2,#00H
        INC R1
        INC R4
        MOV COM,R4
        LCALL PR1
        MOV R5,#00H
        MOV COM,R5
        LCALL PR1
        MOV R3,#10H
        MOV COM,R3
        LCALL PR1
        CJNE R1,#04H,TAB13
        LCALL DELAY1
        LCALL DELAY1
        LCALL DELAY1
        LCALL DELAY1
        LCALL DELAY1
        LCALL DELAY1
        LCALL DELAY1
        LCALL DELAY1
        LCALL DELAY1
AD14: MOV R2,#00H
      MOV R4,#0B1H
      MOV R5,#00H

```

```

MOV R3,#10H
MOV R1,#00H
ADDD14:MOV COM,R4
LCALL PR1
MOV COM,R5
LCALL PR1
MOV COM,R3
LCALL PR1
MOV DPTR,#TABLE14
TAB14: CLR A
MOVC A,@A+DPTR
MOV DAT,A
LCALL PR2
INC DPTR
INC R2
MOV COM,#0AFH
LCALL PR1
CJNE R2,#060H,TAB14
MOV R2,#00H
INC R1
INC R4
MOV COM,R4
LCALL PR1
MOV R5,#00H
MOV COM,R5
LCALL PR1
MOV R3,#10H
MOV COM,R3
LCALL PR1
CJNE R1,#04H,TAB14
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1

AD11: MOV R2,#00H
MOV R4,#0B1H
MOV R5,#00H
MOV R3,#10H
MOV R1,#00H
ADD11:MOV COM,R4
LCALL PR1
MOV COM,R5
LCALL PR1
MOV COM,R3
LCALL PR1
TAB11:MOV A,#000H
MOV DAT,A
LCALL PR2
INC R2
MOV COM,#0AFH
LCALL PR1

```


LCALL DELAY1

```
AD3: MOV R2,#00H
      MOV R4,#0B1H
      MOV R5,#00H
      MOV R3,#10H
      MOV R1,#00H
ADDD3:MOV COM,R4
      LCALL PR1
      MOV COM,R5
      LCALL PR1
      MOV COM,R3
      LCALL PR1
      MOV DPTR,#TABLE1
TAB3: CLR A
      MOVC A,@A+DPTR
      MOV DAT,A
      LCALL PR2
      INC DPTR
      INC R2
      MOV COM,#0AFH
      LCALL PR1
      CJNE R2,#060H,TAB3
      MOV R2,#00H
      INC R1
      INC R4
      MOV COM,R4
      LCALL PR1
      MOV R5,#00H
      MOV COM,R5
      LCALL PR1
      MOV R3,#10H
      MOV COM,R3
      LCALL PR1
      CJNE R1,#04H,TAB3
      LCALL DELAY1
      LCALL DELAY1
      LCALL DELAY1
      LCALL DELAY1
      LCALL DELAY1
      LCALL DELAY1
      LCALL DELAY1
      LCALL DELAY1
```

```
AD4: MOV R2,#00H
      MOV R4,#0B1H
      MOV R5,#00H
      MOV R3,#10H
      MOV R1,#00H
ADDD4:MOV COM,R4
      LCALL PR1
      MOV COM,R5
      LCALL PR1
```

```

MOV COM,R3
LCALL PR1
MOV DPTR,#TABLE2
TAB4: CLR A
MOV A,@A+DPTR
MOV DAT,A
LCALL PR2
INC DPTR
INC R2
MOV COM,#0AFH
LCALL PR1
CJNE R2,#060H,TAB4
MOV R2,#00H
INC R1
INC R4
MOV COM,R4
LCALL PR1
MOV R5,#00H
MOV COM,R5
LCALL PR1
MOV R3,#10H
MOV COM,R3
LCALL PR1
CJNE R1,#04H,TAB4
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1

```

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;AJMP $

```

```

AD5: MOV R2,#00H
MOV R4,#0B1H
MOV R5,#00H
MOV R3,#10H
MOV R1,#00H
ADD5:MOV COM,R4
LCALL PR1
MOV COM,R5
LCALL PR1
MOV COM,R3
LCALL PR1
TAB5:MOV A,#0FFH
MOV DAT,A
LCALL PR2
INC R2
MOV COM,#0AFH
LCALL PR1
CJNE R2,#060H,TAB5
MOV R2,#00H
INC R1
INC R4

```

```
MOV COM,R4
LCALL PR1
MOV R5,#00H
MOV COM,R5
LCALL PR1
MOV R3,#10H
MOV COM,R3
LCALL PR1
CJNE R1,#04H,TAB5
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
LCALL DELAY1
```

```
LJMP AD1
PR1: PUSH ACC
CLR CS1
CLR RS
SETB RD
SETB WR
PR11: MOV P1,#0FFH
CLR RD
NOP
NOP
NOP
MOV A,P1
NOP
NOP
NOP
SETB RD
JB ACC.7,PR11
CLR RS
CLR WR
NOP
NOP
MOV P1,COM
NOP
NOP
SETB WR
SETB CS1
POP ACC
RET
PR2: PUSH ACC
CLR CS1
CLR RS
SETB RD
SETB WR
PR21: MOV P1,#0FFH
CLR RD
NOP
NOP
```



```

MOV  A,P1
NOP
NOP
SETB RD
JB   ACC.7,PR21
SETB RS
CLR  WR
NOP
NOP
MOV  P1,DAT
NOP
NOP
SETB WR
CLR  CS1
POP  ACC
RET

```

```

DELAY1: MOV R5,#0FFH
DELY1:  MOV R4,#0FFH
DELY2:  DJNZ R6,DELY2
        DJNZ R7,DELY1
        RET

```

```

DELAY:  MOV R7,#080H
DEL:    MOV R6,#0A0H
DEL1:   NOP
        NOP
        DJNZ R6,DEL1
        DJNZ R7,DEL
        RET

```

TABLE1:

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;-- μ÷ÈëÁËÖ»·ù¼¼İñ£°E:\tæ, ñÊé\GDSC-9633WM-02\μÚËý·ù.bmp --
;-- ¿i¶Ëx,ß¶Ë=96x24 --
DB 000H,000H,000H,000H,000H,000H,000H,000H,0F0H,080H,010H,090H,090H,0F0H,090H,090H,090H,
DB 0F0H,090H,090H,010H,000H,000H,000H,000H,000H,0E0H,0E0H,07FH,0FFH,001H,001H,0FFH,
DB 0FFH,01FH,001H,001H,08FH,0EFH,0EFH,0E0H,0E1H,0EFH,0EFH,08FH,001H,00FH,001H,001H,
DB 00FH,001H,001H,08FH,0EFH,0E1H,0E1H,0E0H,0EFH,08FH,001H,001H,01FH,0FFH,0FFH,0FFH,
DB 001H,0FFH,0FFH,07FH,0E0H,000H,000H,000H,000H,000H,000H,000H,080H,080H,070H,
DB 000H,0E0H,090H,090H,080H,080H,080H,080H,080H,000H,000H,000H,000H,000H,000H,000H,
DB 000H,000H,000H,000H,000H,00FH,00FH,0FFH,000H,00CH,0FCH,0FCH,0ECH,0FFH,0FFH,0ECH,
DB 0ECH,0FCH,0FCH,00CH,000H,000H,000H,000H,000H,0FFH,0FFH,000H,0F0H,000H,000H,003H,
DB 0FFH,00CH,01FH,01FH,00FH,0FCH,0FCH,0FFH,0FFH,0FFH,0FFH,0FFH,000H,000H,000H,000H,
DB 000H,000H,000H,0FFH,0FFH,0FFH,0FFH,0FFH,0FCH,00FH,01FH,01FH,00CH,0FFH,0FFH,003H,
DB 000H,0F0H,0F0H,000H,0FFH,000H,000H,000H,000H,000H,00CH,003H,0FFH,0FFH,00CH,
DB 003H,0F0H,000H,000H,0FCH,000H,000H,0F0H,003H,000H,000H,000H,000H,000H,000H,000H,
DB 000H,000H,000H,000H,000H,000H,000H,03FH,000H,030H,037H,037H,036H,03FH,03FH,036H,
DB 036H,037H,037H,030H,000H,000H,000H,000H,000H,0FFH,0FFH,0FEH,0FFH,0FFH,0FFH,0C0H,
DB 0FFH,0F8H,0C0H,0C0H,000H,001H,001H,001H,001H,001H,001H,000H,030H,0C0H,0C0H,0C0H,
DB 0C0H,030H,030H,000H,001H,001H,001H,001H,001H,000H,0C0H,0C0H,0F8H,0FFH,0FFH,0C0H,
DB 0FFH,0FFH,0FFH,0FEH,0FFH,000H,000H,000H,000H,000H,000H,000H,000H,03FH,03FH,006H,
DB 001H,030H,030H,030H,03FH,000H,000H,000H,007H,000H,000H,000H,000H,000H,000H,000H,

```

TABLE2:

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;-- μ÷ÈëÁËÖ»·ù¼¼İñ£°E:\tæ, ñÊé\GDSC-9633WM-02\μÚËÄ·ù.bmp --
;-- ¿i¶Ëx,ß¶Ë=96x24 --

```


END