ORG 0000H

START: MOV DPTR,#TABLE

MOV R3,#OK-TABLE+1

LOOP: MOV R2,#3

SCAN: ACALL SCAN1

DJNZ R2,SCAN

INC DPTR

DJNZ R3,LOOP

AJMP START

SCAN1: MOV R1,#00H

MOV R5,#01111111B

MOV R4,#08

LOOP1: MOV A,R1

MOVC A,@A+DPTR

MOV P0,A

MOV P1,R5

MOV R6,#5

DL1: MOV R7,#200

DL2: DJNZ R7,DL2

DJNZ R6,DL1

MOV P1,#11111111B

MOV A,R5

RR A

MOV R5,A

INC R1

DJNZ R4,LOOP1

RET

TABLE: DB 11111111B

DB 11111111B

DB 11111111B

DB 11111111B

DB 11111111B

; 1

DB 11111111B

DB 10111101B

DB 00000001B

DB 11111101B

DB 11111111B

;

DB 11111111B

DB 11111111B

; 2

DB 10111101B

DB 01111001B

DB 01110101B

DB 01101101B

DB 10011101B

;

DB 11111111B

DB 11111111B

OK: DB 11111111B

DB 11111111B

DB 11111111B

DB 11111111B

DB 11111111B

;

ORG 00H

JMP BEGIN

ORG 03H

JMP EXT0

ORG 13H

JMP EXT1

ORG 70H

BEGIN: MOV SP,#30H

MOV P0,#0H

MOV IE,#10000101B

MOV IP,#00000001B

MOV A,#1

MAIN

MOV P0,A

INC A

CALL DELAY

JMP MAIN

EXT0: PUSH PSW

PUSH A

CLR C

MOV A,#01H

EXT0A: MOV P0,A

CALL DELAY

RLC A

JNC EXT0A

POP A

POP PSW

RETI

EXT1: PUSH PSW

PUSH A

CLR C

MOV A,#80H

EXT1A: MOV P0,A

CALL DELAY

RRC A

JNC EXT1A

POP A

POP PSW

RETI

DELAY MOV R6,#200

C1 MOV R7,#200

C2 DJNZ R7,C2

DJNZ R6,C1

RET

ORG 0000H

;

LOOP: MOV P3,#11111110B

JNB P3.7,KEY0

JNB P3.6,KEY1

JNB P3.5,KEY4

JNB P3.4,KEY7

;

MOV P3,#11111101B

JNB P3.7,KEYA

JNB P3.6,KEY2

JNB P3.5,KEY5

JNB P3.4,KEY8

;

MOV P3,#11111011B

JNB P3.7,KEYB

JNB P3.6,KEY3

JNB P3.5,KEY6

JNB P3.4,KEY9

;

MOV P3,#11110111B

JNB P3.7,KEYF

JNB P3.6,KEYE

JNB P3.5,KEYD

JNB P3.4,KEYC

AJMP LOOP

;

KEY0: MOV P1,#11111111B

AJMP LOOP

KEY1: CALL RIGHT

AJMP LOOP

KEY2: CALL LEFT

AJMP LOOP

KEY3: MOV P1,#11111100B

AJMP LOOP

KEY4: MOV P1,#11111011B

AJMP LOOP

KEY5: MOV P1,#11111010B

AJMP LOOP

KEY6: MOV P1,#11111001B

AJMP LOOP

KEY7: MOV P1,#11111000B

AJMP LOOP

KEY8: MOV P1,#11110111B

AJMP LOOP

KEY9: MOV P1,#11110110B

AJMP LOOP

KEYA: MOV P1,#11110101B

AJMP LOOP

KEYB: MOV P1,#11110100B

AJMP LOOP

KEYC: MOV P1,#11110011B

AJMP LOOP

KEYD: MOV P1,#11110010B

AJMP LOOP

KEYE: MOV P1,#11110001B

AJMP LOOP

KEYF: MOV P1,#11110000B

AJMP LOOP

RIGHT: MOV A,#0FEH

GOR: RR A

MOV P1,A

CALL DELAY

CJNE A,#0FEH,GOR

AJMP LOOP

LEFT : MOV A,#07FH

GOL: RL A

MOV P1,A

CALL DELAY

CJNE A,#07FH,GOL

AJMP LOOP

DELAY:

MOV R5,#2

DL2: MOV R4,#199

DL1: MOV R3,#250

DJNZ R3,$

DJNZ R4,DL1

DJNZ R5,DL2

RET

END