org 0

mov sp, #50H

clr c

mov a, #0feH

mov R7, a

mov a, #0fH

mov R5, a

mov a, r5

mk1:

cpl a

mov r6, a

mov p1, A

mov a, r7

mov p0, a

call delay

rlc a

mov r7, a

mov a, r6

jc mk1

mov a, #0ccH

mk2:

cpl a

mov r6, a

mov p1, a

mov a, r7

mov p0, a

call delay

rrc a

mov r7,a

mov a, r6

jc mk2

mov p2, r5

jb p2.1, mk3

mov a, #0fH

mov R5, a

jmp mk4

mk3:

mov a, #0f0H

mov R5, a

mk4:

mov a, r5

jmp mk1

delay:

push 5

; push R5???

push 6

push 7

mov r5, #20

dd1:

mov r6, #200

dd2:

mov r7, #250

djnz r7, $

djnz r6, dd2

djnz r5, dd1

pop 7

pop 6

pop 5

ret

end