.include "C:\VMLAB\include\m168def.inc"

loop5:

ldi r16, 1 ; loads r16 with 00000001

mov r1, r16 ; moves r16 into r1

clr r16 ; clears r16

loop1: ; loop1 shifts left through r1, stops when all 0

lsl r1

brne loop1

ldi r17, 1 ; loads r17 with 00000001

mov r0, r17 ; moves r17 into r0

clr r17 ; clears r17

loop2: ; loop2 shifts left through r0, stops when all 0

lsl r0

brne loop2

ldi r18, 128 ; loads r18 with 10000000

mov r0, r18 ; moves r18 into r0

clr r18 ; clears r18

loop3: ; loop3 shifts right through r0, stops when all 0

lsr r0

brne loop3

ldi r19, 128 ;loads r19 with 10000000

mov r1, r19 ; moves r19 into r1

clr r19 ; clears r19

loop4: ; loop4 shifts right through r1, stops when all 0

lsr r1

brne loop4

breq loop5 ; loops back to start