Set up Rom:

binary	decimal	Program
000 0000	00	
⋮	⋮	⋮
011 1100	60	$ AAAAAAAA
011 1101	61	$ FF00AA55
011 1110	62	$ 12345678
011 1111	63	$ 9ABCDEFØ

$ ⇒ hex, else decimal
# ⇒ immediate

Addr	Label	Instruction	Comments
00		LDU R1, #14	; (address of sub1)
		LDU R19 #31	; Rom is 0-63
		ROL R26, R19	; C ← 0, R26 ← 62
		LD R20 #ABCD	; FFFFABCD
		ROL R21, R20	; sets C
		ROR R22, R26	
		JSR sub1	
		NOP	
		BSR sub2	
		LDIX R11, RØ, #61	; decimal
		OR R12, R11, #$A5AØ	; hex ($)
		AND R13, R11, #$A5AØ	
		XOR R9, R20, #$1234	
ELOOP		BRA ELOOP	

```
sub1    ADD   R25, R19, #29     ; R25 is 60
        SUB   RØ, R25, #60      ; RØ is Ø

        STA   $76 R20           ; RAM $64-$127
        Jmp   smwh              ; [R19]=31...

sub2    LDIx  R28, R25, #3      ; from 63
        COMP  R29, R28          ; 1's comp
        ADD   R27, R29, R28     ; -1
        BNE   RØ, R28, alwys
again   BEQ   R27, R28, same
        BLT   R27, R28, smlr    ; if [R30]<[R28]
        BINE  R27, R28, diff

        JSR SUB1

Same    RTS
diff    MOVE  R27, RØ
        BRA   again
smlr    MOVE  R28, RØ
always  BRA   again

smwh    AND   R6, R20, #003f    ; ...000D
        OR    R7, R6, #001C     ; d29
        STIX  R20, R7, #50      ; store [R20] @ m 79
        LDIX  R8, RØ, #$76

        LDA R14 #79             ; decimal
end     RTS
```