

[illegible]

```

;-----
;START Func
;-----
START:
    out PORTB, r21

    rcall SHIFT           ;Call SHIFT func
    rcall DELAY           ;Call DELAY func

    cpi r21, 0xFF         ;loops the program

    breq MAIN
    rjmp START

```

```

;-----
;SHIFT Func
;-----
SHIFT:
    lsl r21
    add r21, r22
    ret

```

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;-----
;DELAY Func
;-----
DELAY:
    ; Generated by delay loop calculator
    ; at http://www.bretmulvey.com/avrdelay.html
    ;
    ; Delay 500 000 cycles
    ; 500ms at 1 MHz

    ldi r18, 4
    ldi r19, 138
    ldi r20, 86
L1: dec r20
    brne L1
    dec r19
    brne L1
    dec r18
    brne L1
    rjmp PC+1
    ret
;-----

```