


```

        ldi r16, 0b11111110
        out PORTB, r16

ON:
        rcall WAIT_MILLISECONDS

        rol r16
        inc r16
        out PORTB, r16

        cpi r16, 0b11111111
        breq INIT
rjmp ON
;----- DELAY -----
WAIT_MILLISECONDS:
        ldi r23, 255
        ldi r24, 0

        DEL_1:
                rcall DELAY_2
        rjmp HIGH_

        FINISH:
                inc r24
                cp r23, r24
                brne DEL_1
        ret

        DELAY_2:
                ldi r25, 255
                ldi r26, 0

                DEL_2:
                        inc r26
                        cp r25, r26
                        brne DEL_2
                ret
;-----
HIGH_:
        ldi r17, high(1000)
        ldi r18, 0

        DEL_HIGH:
                rcall CARRY_BIT
                inc r18
                cp r17, r18
                brne DEL_HIGH
        rjmp LOW_
;-----

```

CARRY_BIT:

ldi r19, 128

ldi r20, 0

DEL:

inc r20

cp r19, r20

brne DEL

ret

;-----

LOW_:

ldi r21, low(1000)

ldi r22, 0

DEL_LOW:

inc r22

cp r21, r22

brne DEL_LOW

rjmp FINISH