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CON
{{ Gray to BIN converter to RPM board leds on this are pulled up...
so the outa command is inverted ..leds used for debugging
press F10 load to RAM to check individual settings..
R.T.Nollet gray code to binary converter www.nollet.com.au
}}

    _clkmode      = xtall + pll16x    '80MHZ quick runner..
    _xinfreq      = 5_000_000        '5 Mega HZ
    gray         = 3                 'change this 0..1023
    'gray        = %1000_0000_00    'or use this mode to see bits better
    initmask     = 1024              '10 bit gray mask MSB
    delay        = 80_000_000       'global long delay 1 sec
    sdelay       = 500               'shorter global delay

VAR
long   msb_bin           'binary
long   xorcalc           'bit storer .. word with masks..
long   sh_gray           'shadow Gray ??

pub rotate               'xor rotator/shifter routine..Gray to Bin
outa [25..16] := %1111111111 'turn leds off to start with ..
dira [16..25]-- 'make pins 16 thru to 25 all output
sh_gray := gray

repeat
sh_gray := gray           'shadow gray so we can move it..
msb_bin := (sh_gray & initmask) 'determined MSB in Gray ..

repeat 10
sh_gray <<= 1
xorcalc := (msb_bin & initmask) * (sh_gray & initmask)
msb_bin <<= 1
msb_bin := msb_bin + xorcalc

repeat 1
msb_bin >>= 10           'move back 10 bits .
outa [25..16] := ! msb_bin 'debug to leds on PropRPM board
waitcnt (sdelay + cnt)

```