

$A = A << 1;$

$A = A \gg 1$

↓
0111 1111
0x7_FFF

$A = 0xFF$

←
 $= 0b \underline{1111 \ 1111}$ ←

$= 2^8 - 1 = 255$

uint8_t

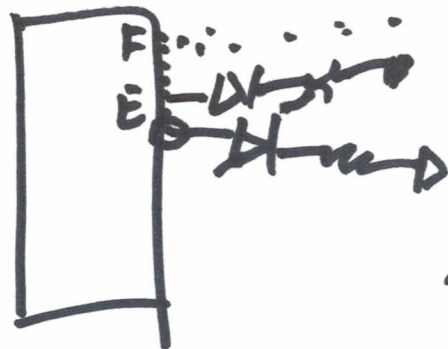
↓
type

1111 1110 254
0xFE

PORTA ← A

& bit-wise AND

$A = 1111 \ 0111$ &
Mask = 0000 1111
 $B = A \& \text{Mask}$
0000 0111



0x10101010
0x11110000 &
0x10101010
0x 0011 1100
3 1

①

~ bit-wise NOT
!= logic NOT

A <= A

A <<= A

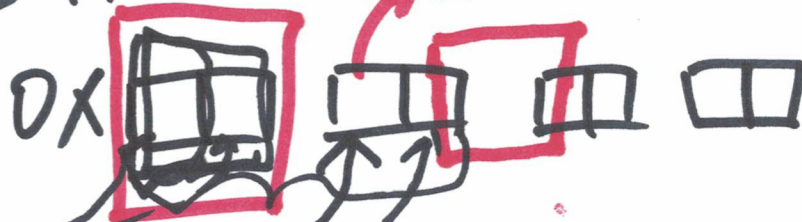
$\Leftrightarrow \underline{A} = \underline{A} << \underline{A}$

A += 1

A = A + 1

uint32_t X;

X = X & 0xFF000000



(2)

$$0b\ 0011 \leftarrow 1 \times 2$$

$$0110 \rightarrow 1 / 2$$

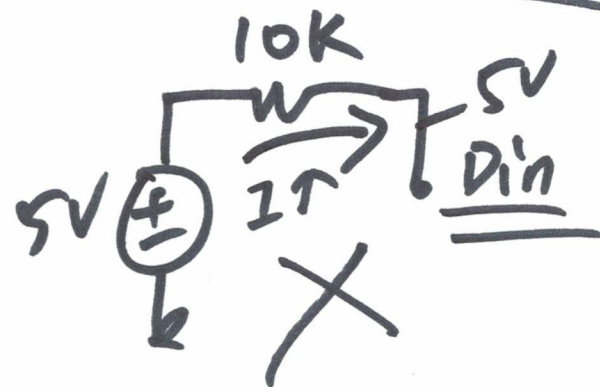
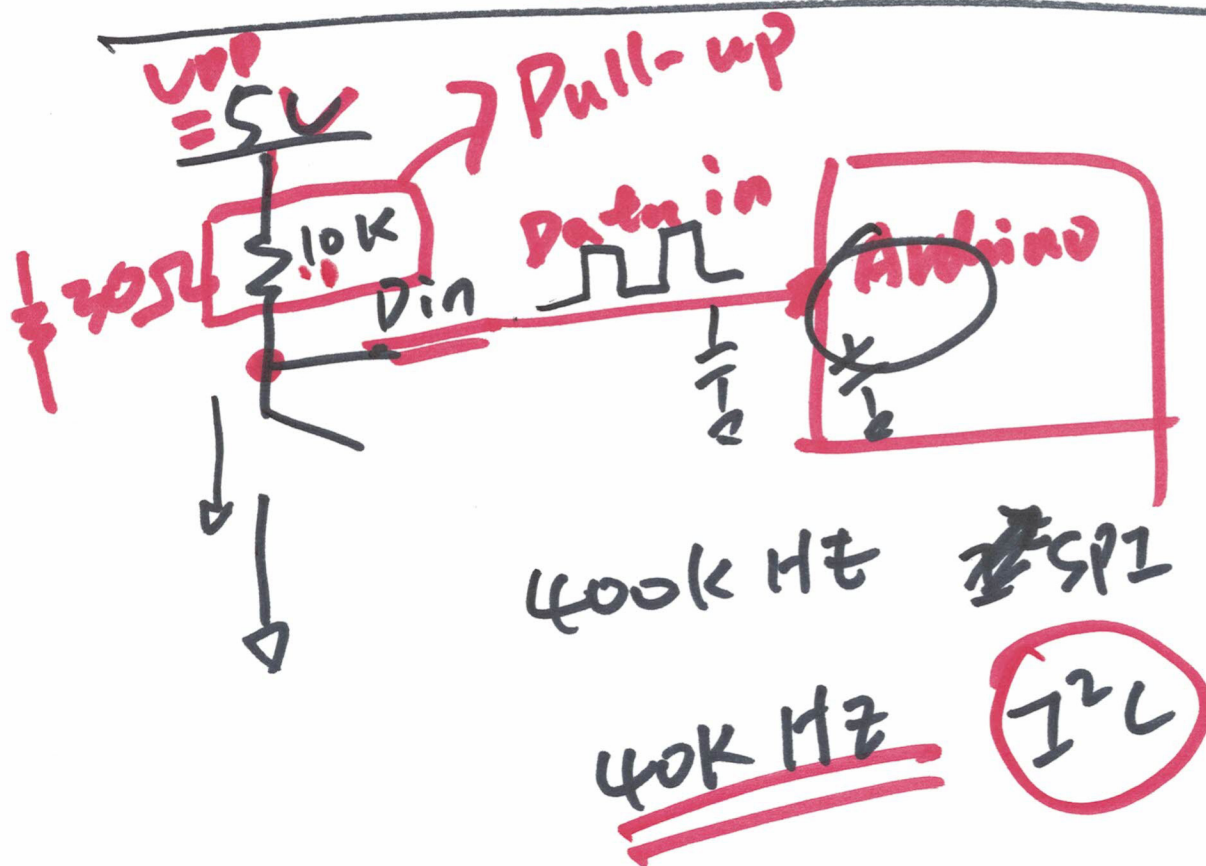
$$\begin{array}{r} 02 \quad 20 \\ \times 10 \end{array}$$

$$X = (X \ll 3) + \underline{\quad}$$

(3)

$\text{uint8_t } i;$
 $\text{for}(i=3; i < 105; i++)$
 $\{$
 $\}$

$$\begin{aligned}
 & \text{11111111} \\
 & 2^8 - 1 = 256 - 1 = \underline{\underline{255}} \\
 & 0 - 255 \\
 & \quad 256
 \end{aligned}$$



(3)