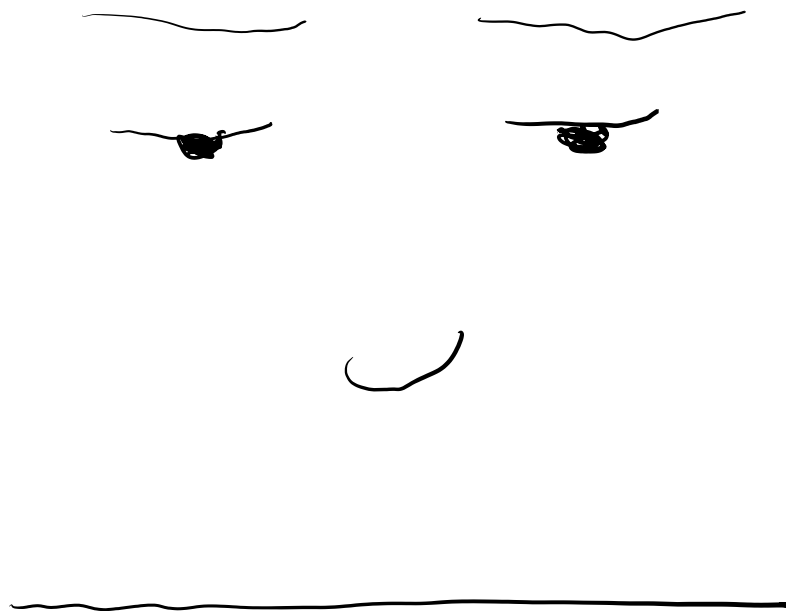


Excited!



! Excited

\sim \rightarrow bit wise not

0011 01
11¹0010

! \rightarrow logical not

0 is false

all other numbers are true

!0 \rightarrow 1

!1, !7, !-23486, \rightarrow 0

!! \equiv any bit

r_0

00001000

~~11001010~~

|||||

r_2

00111100

$r_0 \& r_2$

01100000_b

6081



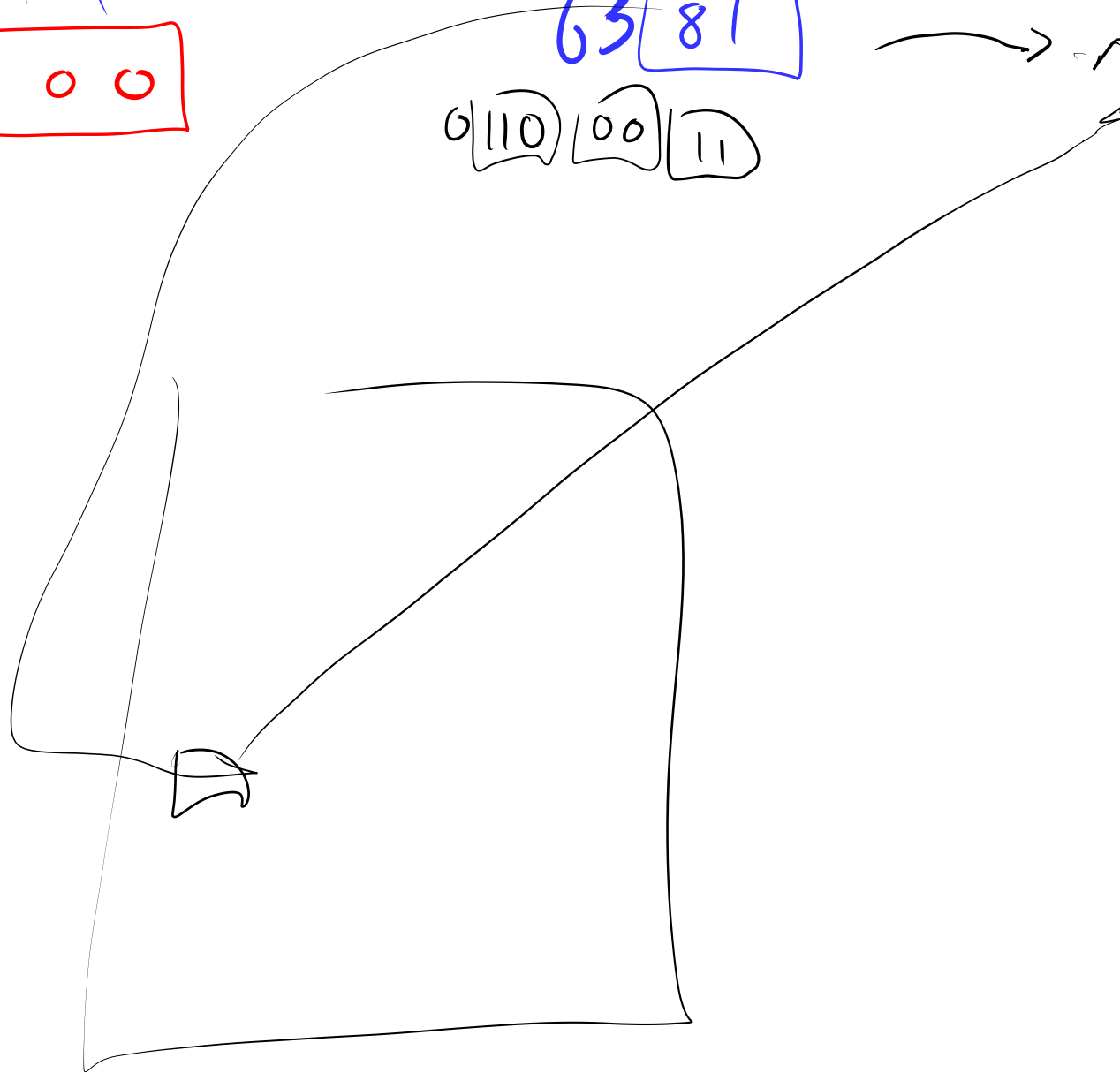
$r_0 = 81$

6381

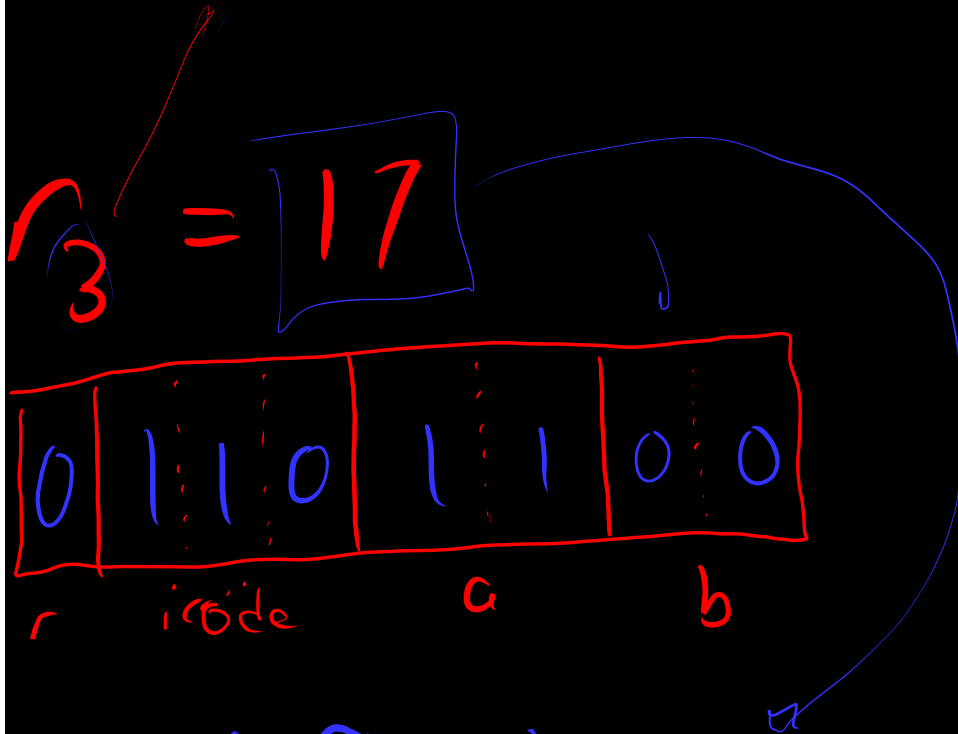


r_0

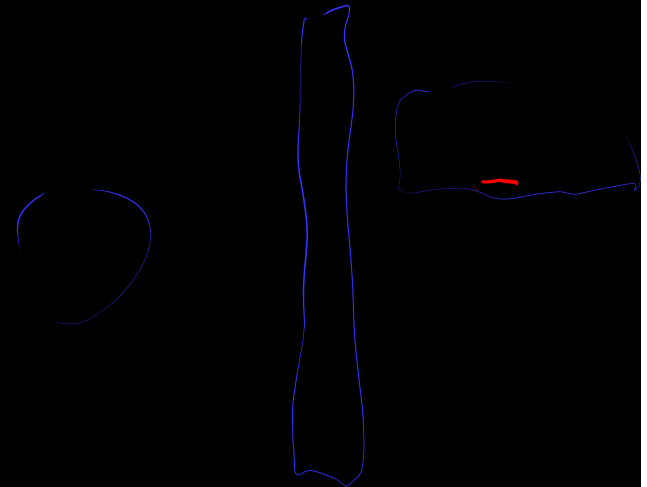
01100011



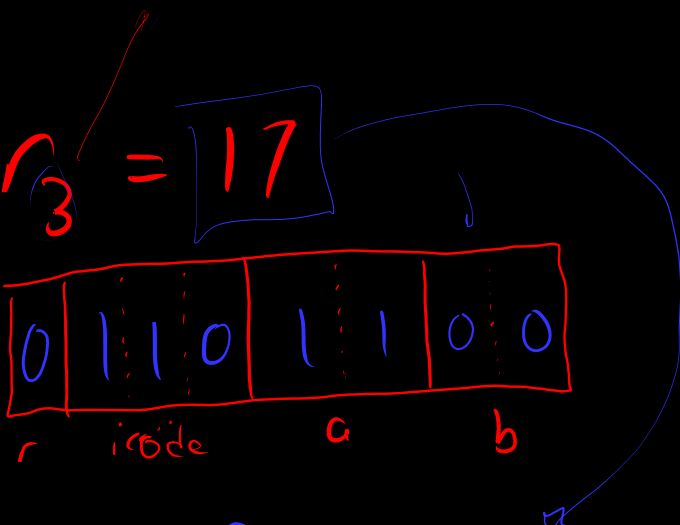
i a b
6 3 0



6C 11



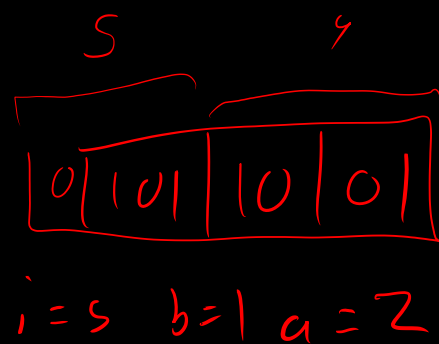
i	a	b
6	3	0



6C 11

$$r_1 \leftarrow -r_2$$

$$\left[\begin{array}{l} r_2 = -r_2 \\ r_1 \leftarrow r_2 \\ r_2 = -r_2 \end{array} \right]$$



59
16
59

if (x) {

Y
else {

Z

}

while (x) {

Y

}

Z

if !x goto else

Y

goto end

else:

Z

end:

beg:



if (x) goto ~~end~~

Y

goto beg

end:

Z

$x \neq 0$

$x \leq 0$

$\sim !!x$ $\begin{matrix} 0 \nearrow \\ \text{not} \searrow \end{matrix}$ $\begin{matrix} 0 \\ -1 \end{matrix}$

$!!x$ $\begin{matrix} 0 \nearrow \\ \text{not} \searrow \end{matrix}$ $\begin{matrix} 0 \\ 1 \end{matrix}$