

32-bit

10 - 1010 - 2-set bits

11 - 1011 - 3-set bits

8421

1011

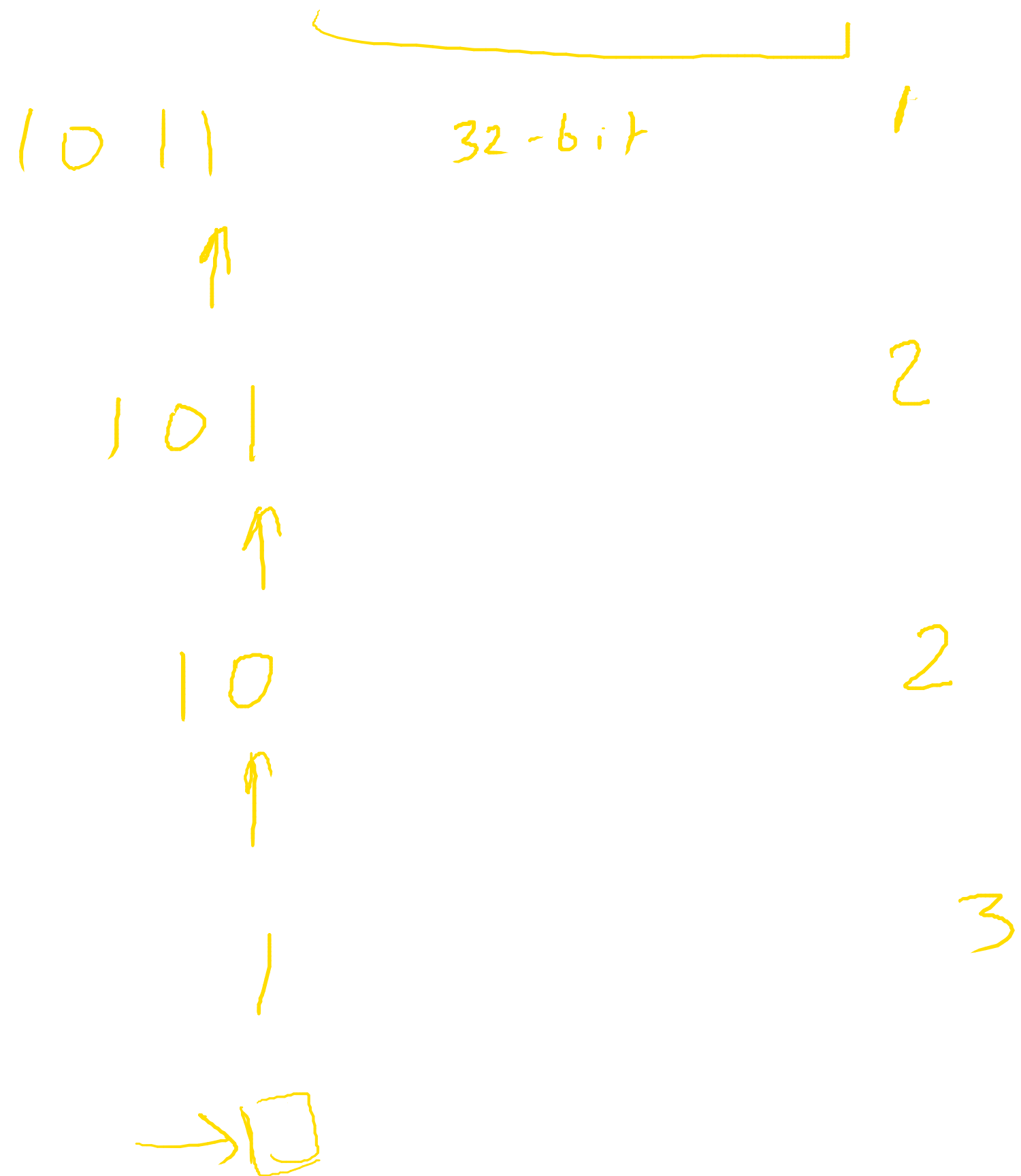
↑↑↑↑

6

1

2

3



1011

↑

1010

↑

1000

↑

1000

↑

0000

1

2

2

3

$$\underline{a += b}$$

$$\underline{a = a + b}$$

$$a \ll b$$

$$a \& b$$

$$1101 \ll 3$$

$$a = a \& b$$

↑
x
1101000

$$a \ll = b$$

$$a = a \ll b$$

$Var = \underbrace{\underbrace{Cond}_{?} \underbrace{e_1}_{:} \underbrace{e_2}_{:}}_{}$

$a + b \rightarrow$ operands
 \uparrow
operator

?:

~~#~~ if (cond)
{ var = e₁; }
else
{ var = e₂; }

X
var = if(cond) { e₁ } else { e₂ }

var = (cond) ? e₁ : e₂

if(cond)

{
~~for~~ while
switch
}

X
cond ? { switch }

1011

~1011

0100

~1001

0110

~0000

1110 & 1011

~0010

1010

1101 & 1010

1000

unsigned

1101

□110

0110

1101 >> 2
L

□011

0011

1101 << 2

110100

Bitwise AND

$$\begin{array}{r} 1011 \\ \& 1001 \\ \hline 1001 \end{array}$$

$$\begin{array}{r} 1011 \\ \& 0001 \\ \hline 0001 \end{array}$$

$$\begin{array}{r} 1010 \\ \& 0010 \\ \hline \boxed{10010} \\ \uparrow \end{array}$$