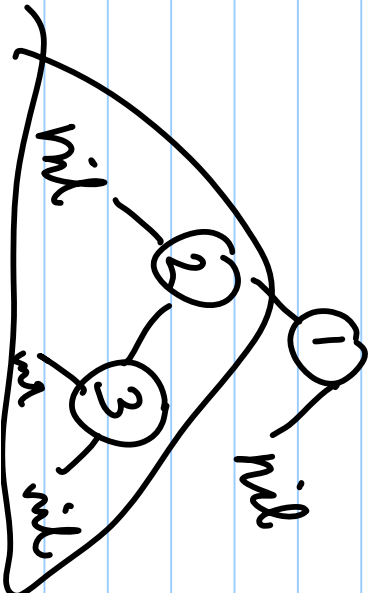
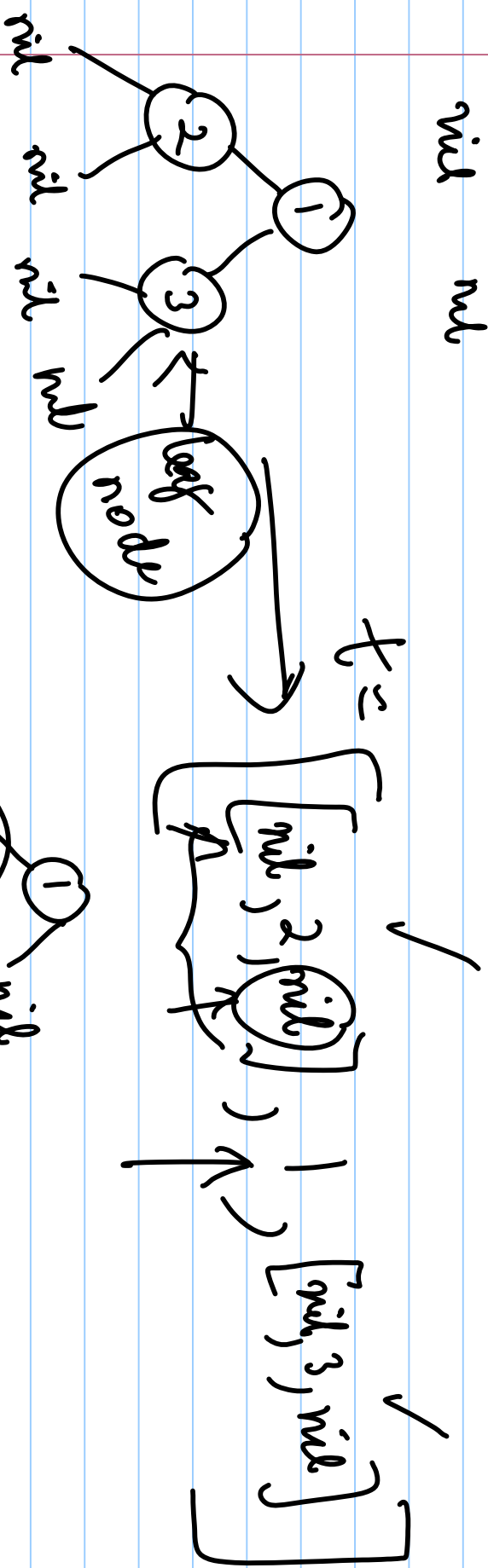
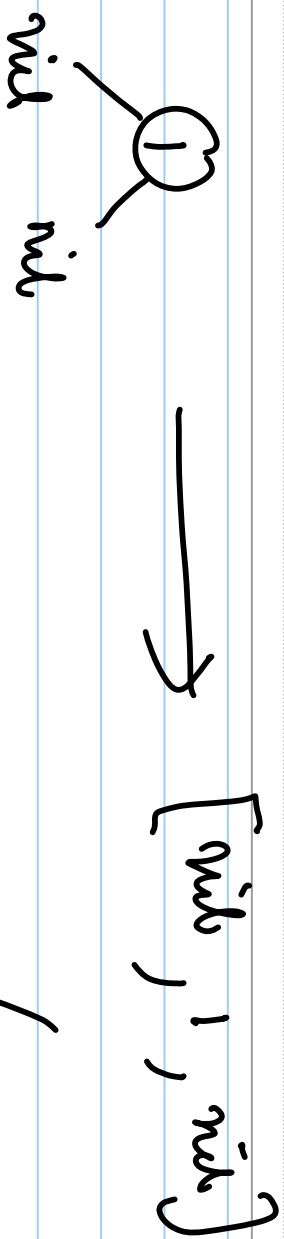
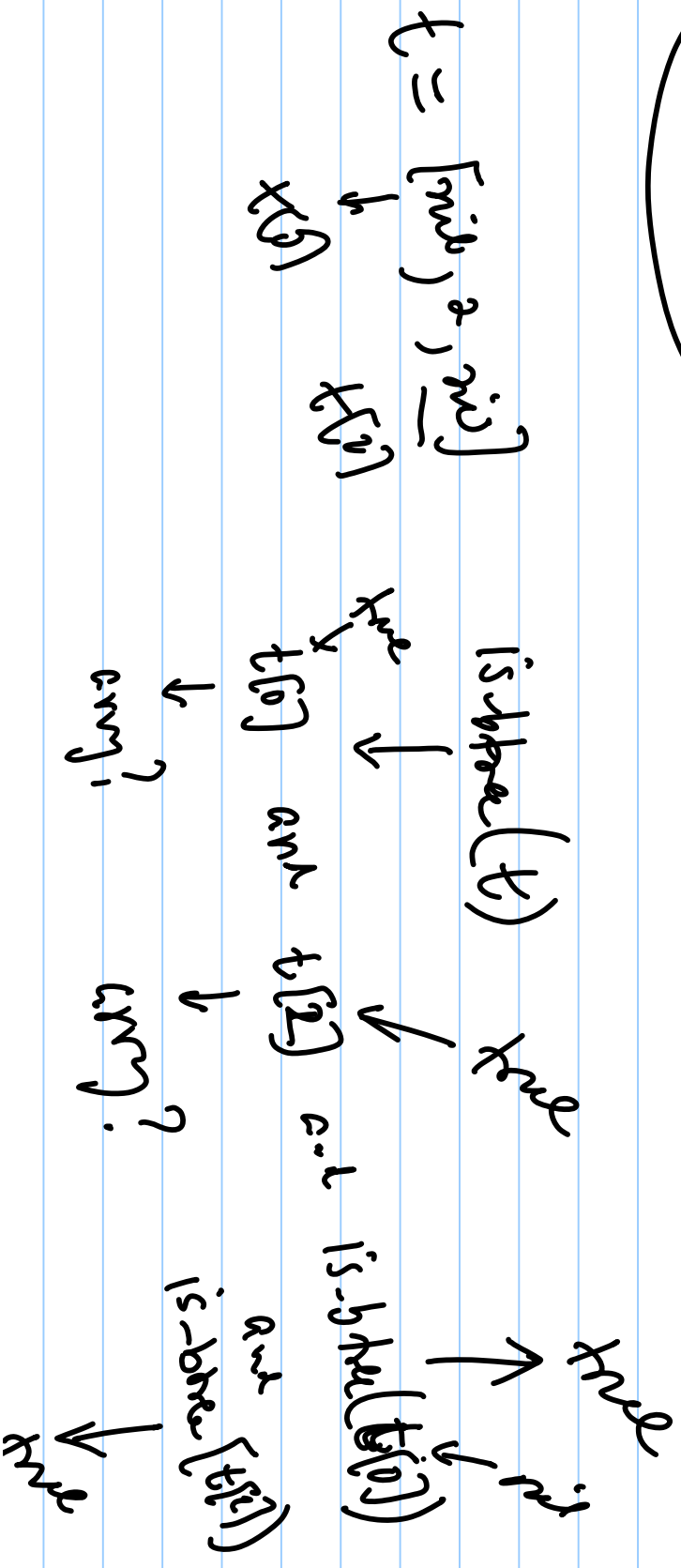




[[nil, 2, [nil, 3, nil]], nil]

t = [[2, 3, nil]] → is-tree? NO

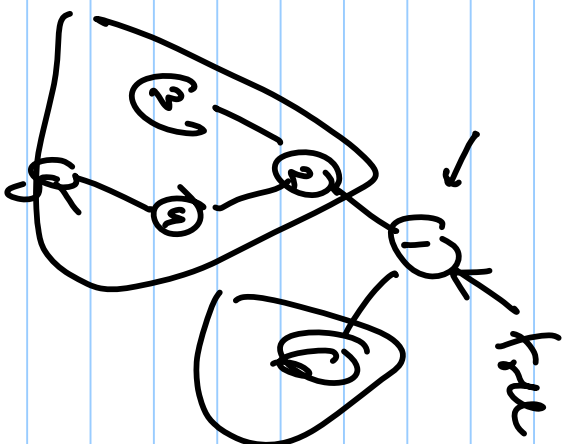
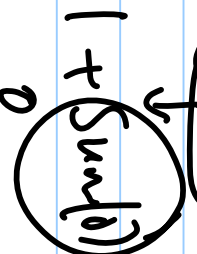
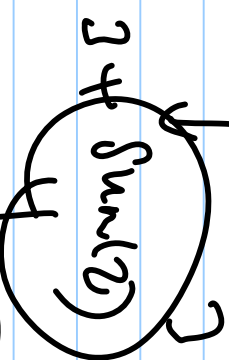
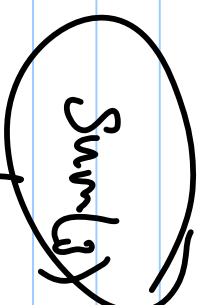


def sum(n)

1+2+...+n

if n=0 return 0

else return n+sum(n-1)



Count(tree) = 0 tree = 0

= 1 + Count(tree₁)

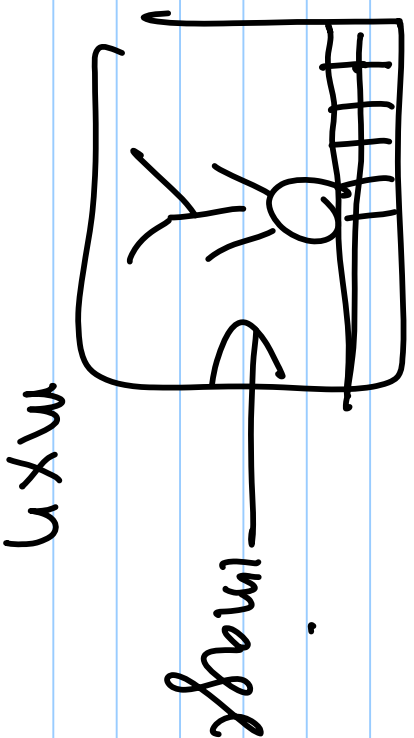
+ Count(tree₂)

*

1 1

$$\begin{aligned} \text{Count}(1) &= 1 + \text{Count}(2) + \text{Count}(6) = 16 \\ &\quad \downarrow \quad \quad \quad \downarrow \\ &\quad \text{Count}(3) + \text{Count}(4) = 10 \\ &\quad \downarrow \quad \quad \quad \downarrow \\ &\quad \text{Count}(5) + \text{Count}(7) = 10 \end{aligned}$$

Image | Sketch

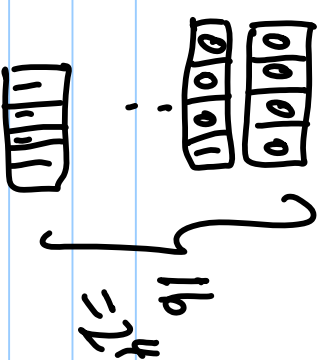
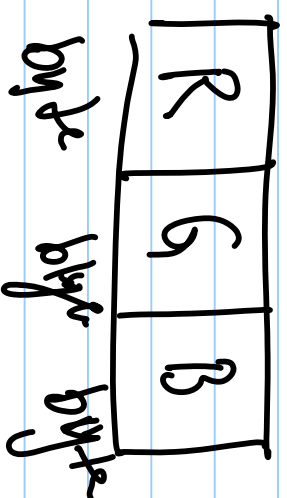


$m \times n$

How many colors
in 24-bits?

bitmap
color

$m \times n$ pixels



24-bits $\rightarrow 2^{24}$ colors
 $= (2^8)^3 = 16^3$ colors

$a a a a \dots a \rightarrow 00000000$
 by ~~by~~ 1011

abcabc...

$$a = 5$$

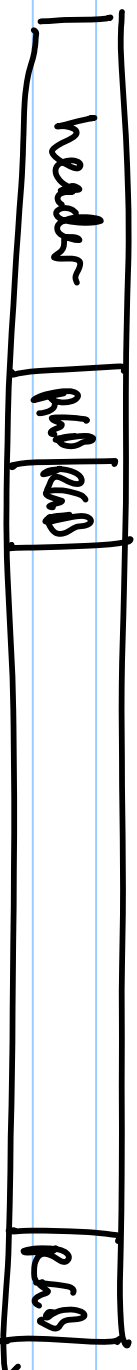
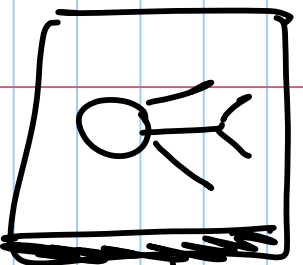
$$b = 2$$

$$c = 21$$

OSMP

54 bytes

$m \times n \times 3$



$$\text{Size} = (54) + m \times n \times 3$$