$$1 + \times (2 + \times \cdot 13 + \times \cdot (41))$$

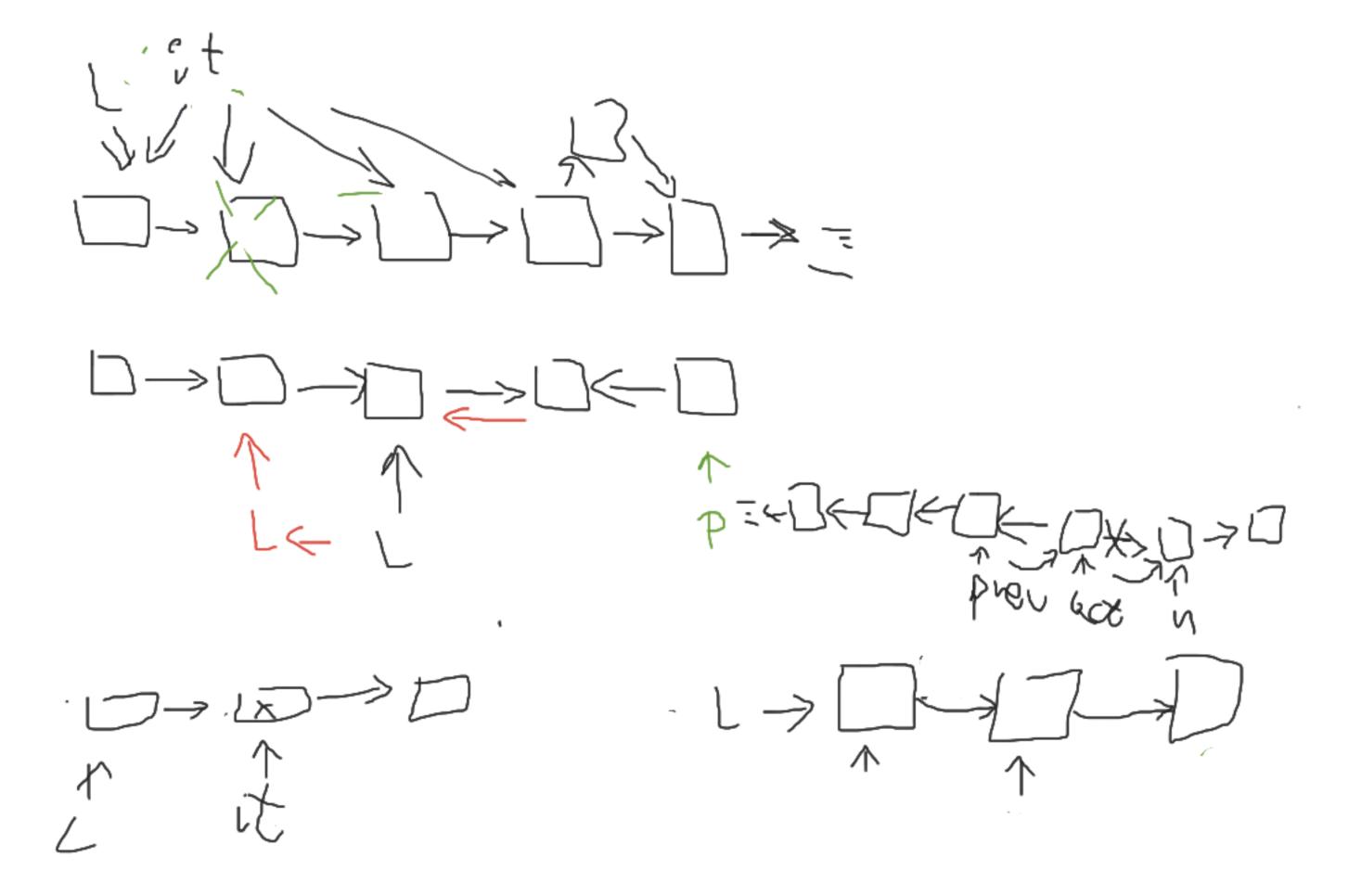
 $5 - \alpha (n+1)$
 $5 - \alpha i = 0$
 $5 = 5 \cdot \times$
 $5 + = \alpha [i]$

$$x^{10} = x^{2} \left(x^{2}\right)$$

$$t = x$$
 $S = 1$
 $t = t \cdot t // x^2$
 $t = t \cdot t // x = x^2$
 $t = t \cdot t // x = t \cdot t // x$
 $t = t \cdot t // x = t \cdot t // x$

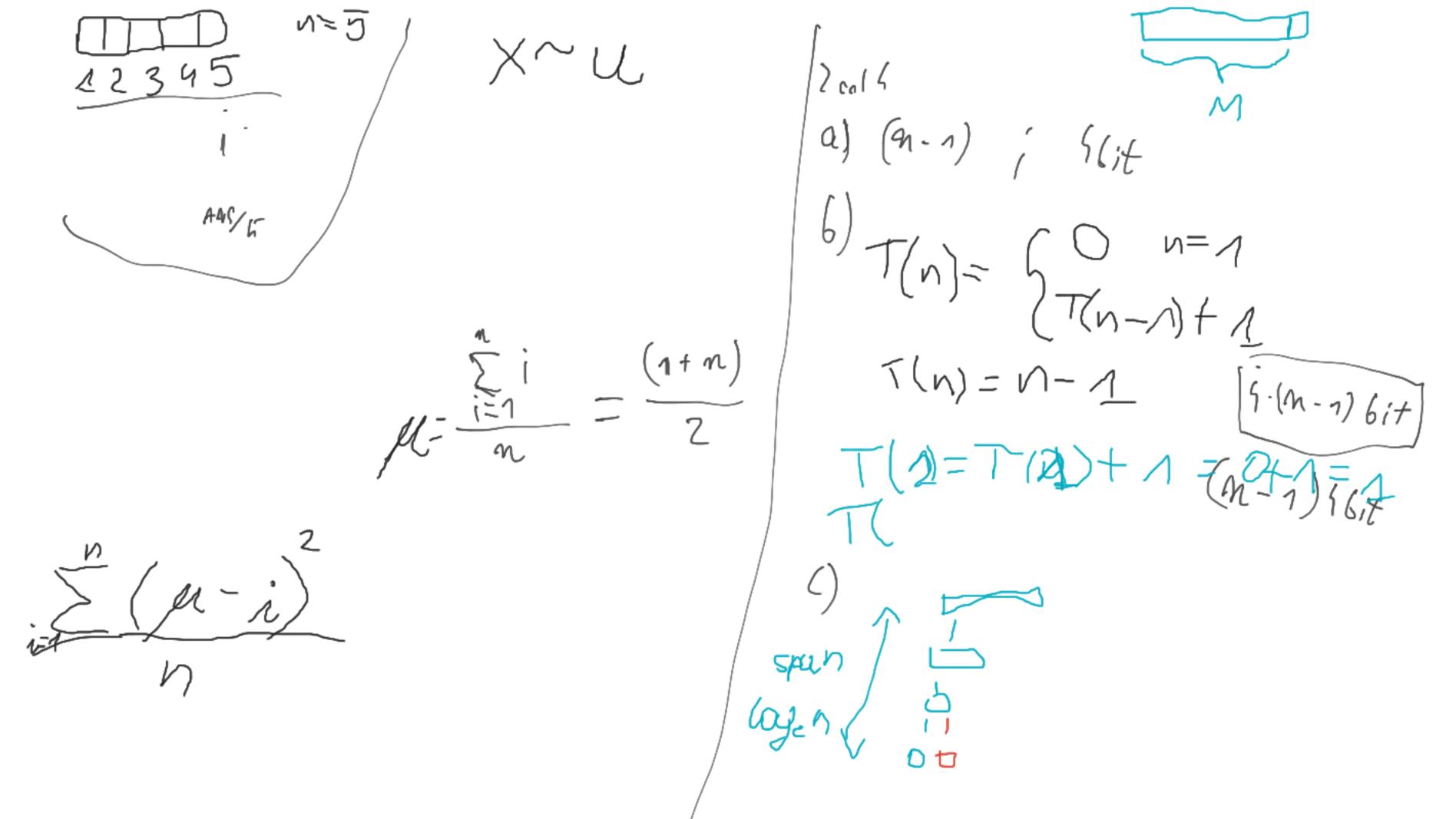
5= 57 1/ 2, X = 10 x 5=1 x white b>0: if b % 2=1: SX=t tiet *t わノニュ

 $\frac{1125}{345}$ (21) (87) (64) $\frac{1125}{345}$ (21) (87) (64) $\frac{1125}{345}$ (21) (87) (64) $\frac{1125}{345}$ (21) (87) (64)



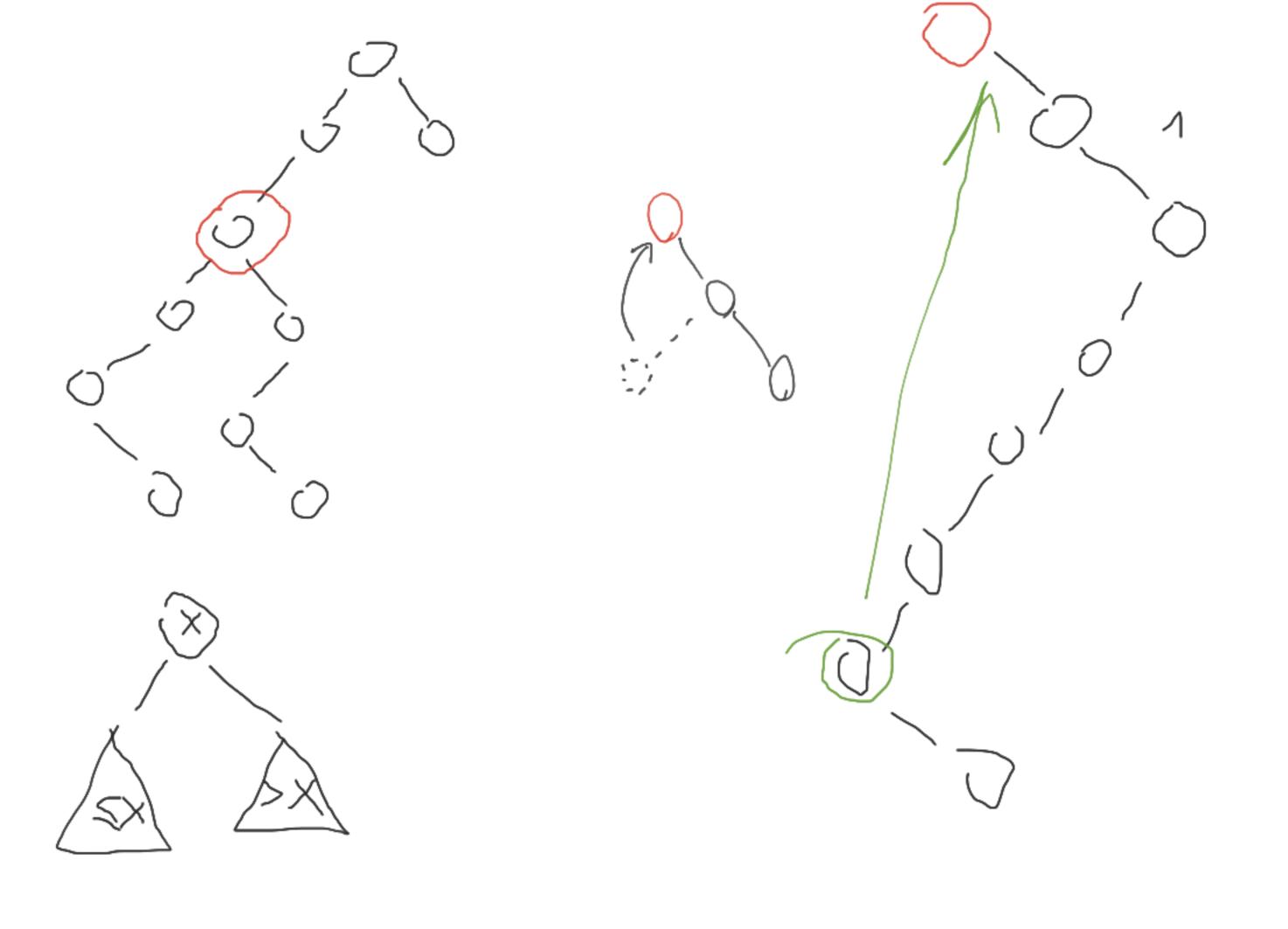
.

1- tlas-1 if t[1] <=x ip tancx 1234 O (Logzh)



16-1

nolihil/1sta h=m n o j mnissen 1 Log 2 (n+1)



nie - sout 345/162 134562 1345612

[insut sont]

$$A = T(n) = T(\frac{n}{2}) + n^{2} \qquad 0 = T \qquad b = T \qquad b = T^{2}$$

$$A' = T'(n) = T(\frac{n}{2}) + n^{2} \qquad 0 = T \qquad b = T \qquad b' = T^{2}$$

$$1 = T(\frac{n}{2}) + n^{2} \qquad 0 = T \qquad b' = T^{2}$$

$$1 = T(\frac{n}{2}) + n^{2} \qquad 0 = T \qquad b' = T^{2}$$

$$1 = T(\frac{n}{2}) + n^{2} \qquad 0 = T \qquad b' = T^{2}$$

$$1 = T(\frac{n}{2}) + n^{2} \qquad 0 = T \qquad b' = T^{2}$$

$$1 = T(\frac{n}{2}) + T^{2} \qquad 0 = T^{2} \qquad 0 = T^{2}$$

$$1 = T(\frac{n}{2}) + T^{2} \qquad 0 = T^{2} \qquad 0 = T^{2}$$

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$$1 = T(\frac{n}{2}) + T^{2} \qquad 0 = T^{2} \qquad 0 = T^{2} \qquad 0 = T^{2}$$

$$1 = T(\frac{n}{2}) + T^{2} \qquad 0 = T^{2} \qquad 0 = T^{2} \qquad 0 = T^{2} \qquad 0 = T^{2}$$

$$1 = T(\frac{n}{2}) + T^{2} \qquad 0 = T^{2} \qquad$$

(f) nlog 49 / nlog 4° = nlog 18

Y F 2

วร์ 17 17 19 85 19 6 22 9 Hugh)

$$\frac{h}{2} \cdot O(hgh) = O(hhgh)$$

presiej = $O(h)$

log27=2.9... 12,91-1=3

K< X < K+V アソコード LSJ=3 3≤3<4 13,57=3 3<3.50 3494-3 3 <3,499 <4 1925 - 2 h-1 < (-22n < h /+1 L25+1=3 h < lggn+1 Lh+1 $\leq N < 2^{h}$ $\lfloor \lfloor q_{2^{n-1}} \rfloor = \lfloor \lfloor q_{2^{n}} \rfloor + 1 = h$

2-1

23-1

$$7/h = 2T(\frac{1}{2}/+h)^{-1}$$

=0\(\lambda\) \(\lambda\)

$$T(y) = T(n-1) + h = \sum_{i=1}^{\infty} i = O(n^2)$$

$$\begin{array}{lll}
h & n = 1 \\
h & = \frac{1}{n} \left[\log_{\alpha} \frac{1}{n} \right] \\
\log_{\alpha} \frac{1}{n} & \log_{\alpha} \frac{1}{n} \\
\log_{\alpha} \frac{1}{n} & \log_{\alpha} \frac{1}{n} \\
h = \log_{\alpha} \frac{1}{n} & \log_{\alpha} \frac{1}{n} \\
- \frac{\log_{\alpha}(n)}{\log_{\alpha}(n)} & = O(\log_{\alpha}(n))
\end{array}$$

Loga 6 · logo 6 = loga 6 Loga 6 · logo 6 = loga 6 Loga (a) · loga (n) = logo (n) : logo (a)

$$f(x) = \frac{e-a}{x-a}$$

$$\left[\frac{x-a}{6-a}\right]$$

-101 234 5

$$\left(\frac{n}{k}\right)^2 \cdot k = \frac{n^2}{k} = O(n^2)$$

e tablica pointe o'n [4+1] [min +-symo'n] · tablica h livry [4] (2+) default e Roalzic

· K - (iGba. //[17278 = (+, 2+)

•

.

$$T(n,k) = T(n-1,k) + T/n-1,k-1$$

$$\binom{n-1}{k} + \binom{n-1}{k-1} = \frac{(n-1)!}{k!(n-1-k)!} + \frac{(n-n)!}{(n-1)!(n-1-k+1)!} = \frac{(n-1)!}{k!(n-1-k)!}$$

$$= \frac{\left(\frac{(n-n)!}{(k-n)!} \cdot \frac{1}{(m-k-1)!} \left(\frac{1}{k} + \frac{1}{n-k}\right) - \left(\frac{n-k+k}{k \cdot (n-k)}\right) - \left(\frac{n}{k \cdot (n-k)} + \frac{1}{k \cdot (n-k)}\right)}{\left(\frac{n-k+k+k}{k \cdot (n-k)}\right)} = \frac{\left(\frac{n-k+k+k}{k \cdot (n-k)} + \frac{1}{k \cdot (n-k)}\right)}{\left(\frac{n-k+k+k}{k \cdot (n-k)}\right)} = \frac{\left(\frac{n-k+k+k}{k \cdot (n-k)}\right)}{\left(\frac{n-k+k+k}{k \cdot (n-k)}\right)} = \frac{\left(\frac{n-k+k}{k \cdot (n-k)}\right)}{\left(\frac{n-k+k+k}{k \cdot (n-k)}\right)}$$

$$\frac{\lfloor 921 \rfloor}{(k-n)! \cdot (m-k-1)!} = \frac{(m-n)!}{(k-n-k)!} = \frac{n!}{k! \cdot (m-k)!} = \frac{n!}{k! \cdot (m-k)$$