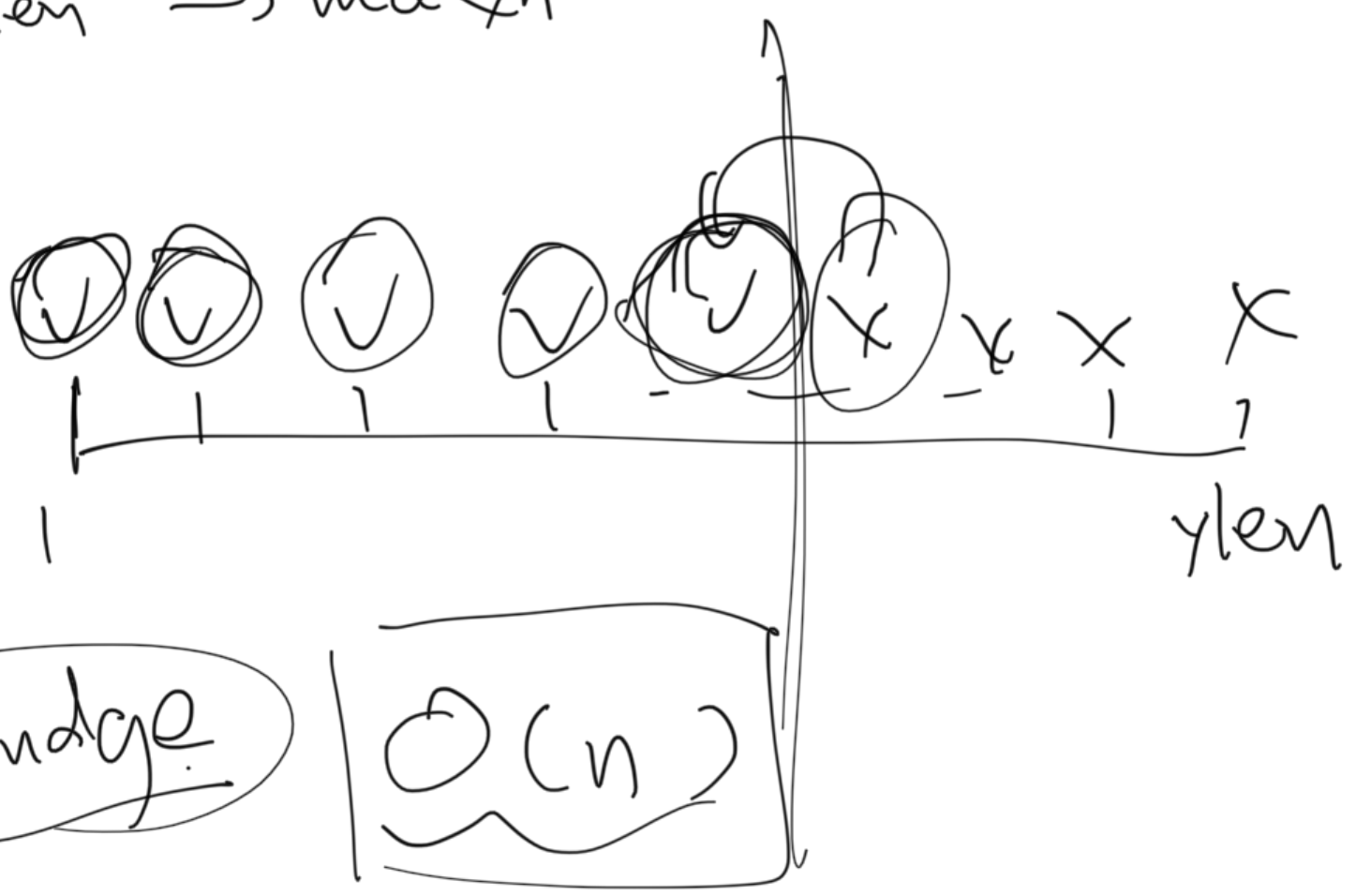
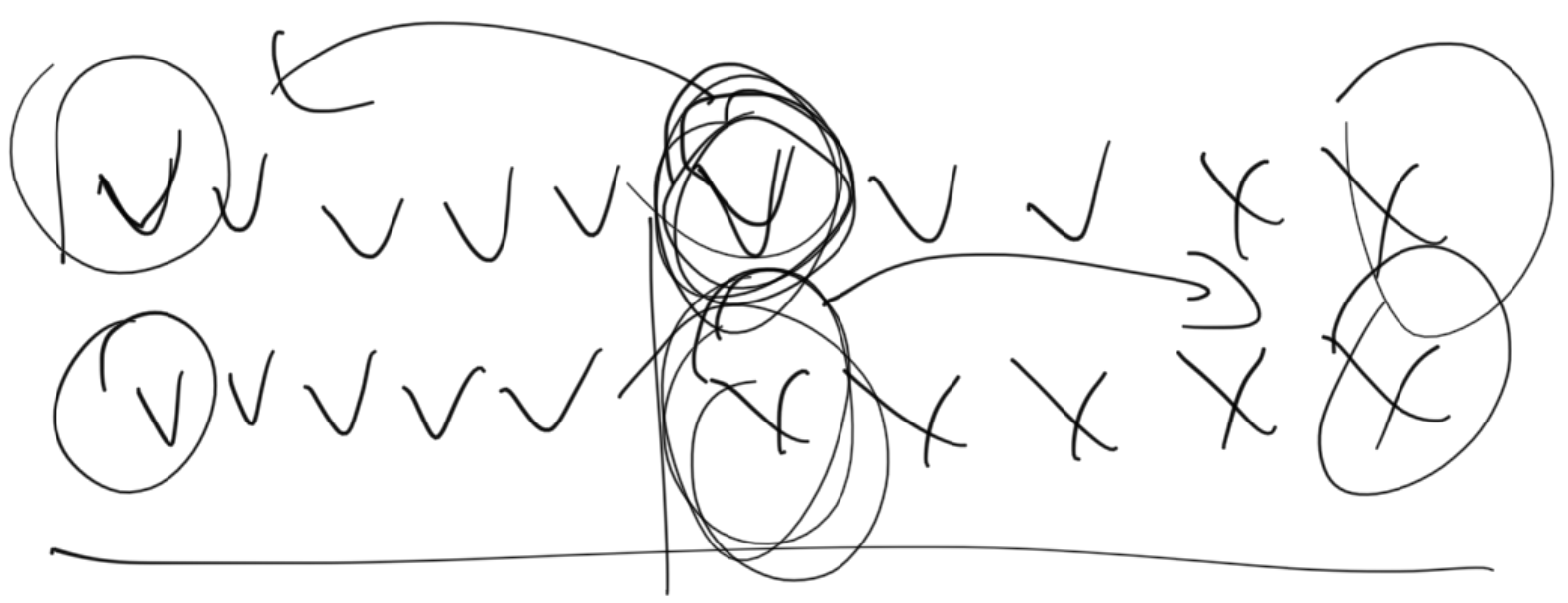
1 ~ ylen → maxn



judge

O(n)



$n \quad \frac{n}{2} \quad \frac{n}{4} \quad - \quad - \quad - \quad 1$

O(n)

$\boxed{\log_2 n} = O(\log n)$

n 4

log n 2

1024

10

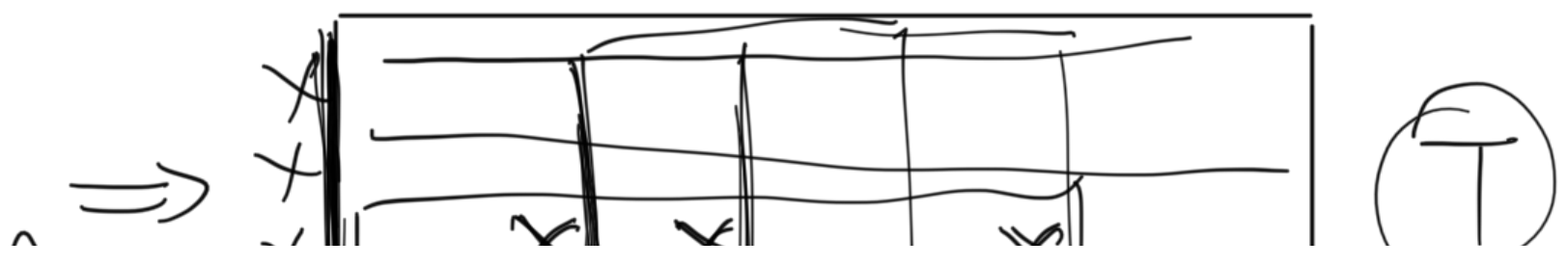
1024 $\approx (10^3)$ = 10

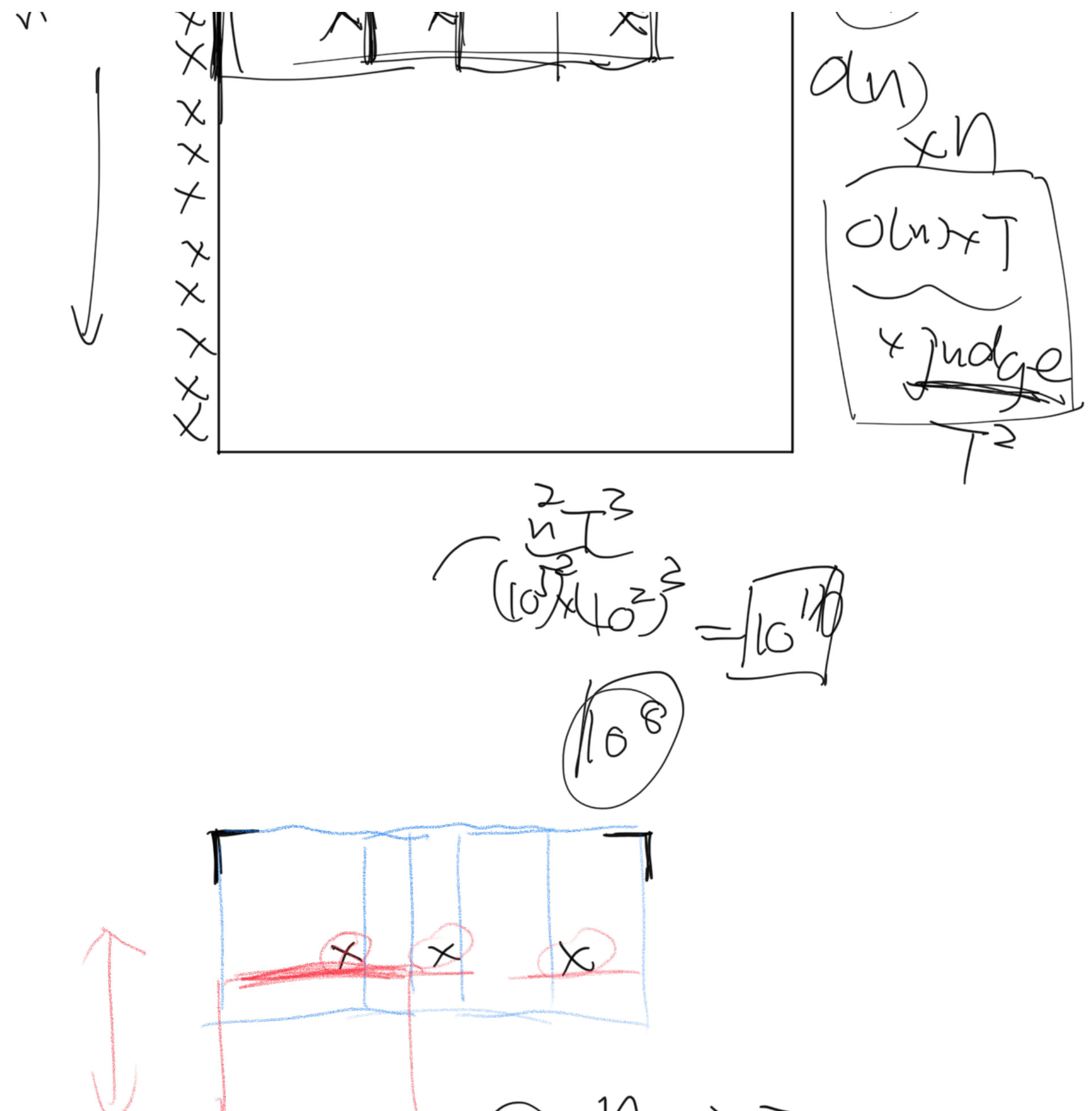
20

离散化

$n \le 1e5 = 10^5$

$T \le 100 = 10^2$

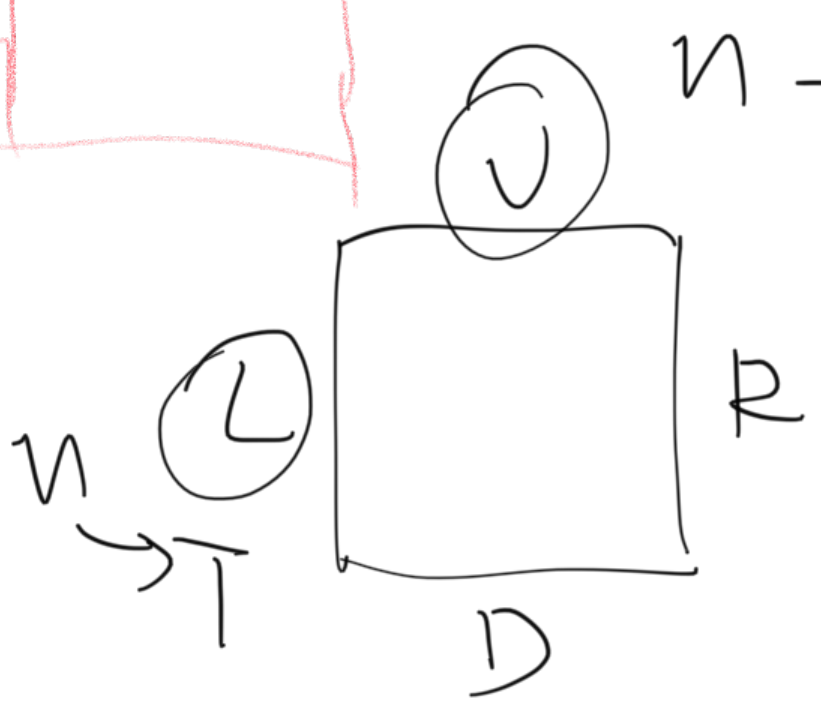




$$n^2 T^3$$

$$(10^5)^2 \times (10^2)^3 = 10^{10}$$

10^8



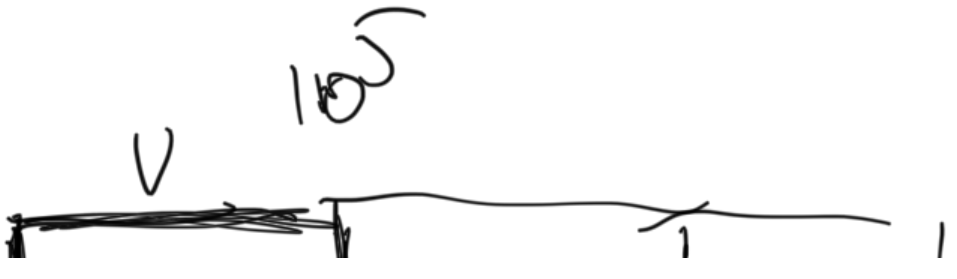
$n^2 \to T^2$

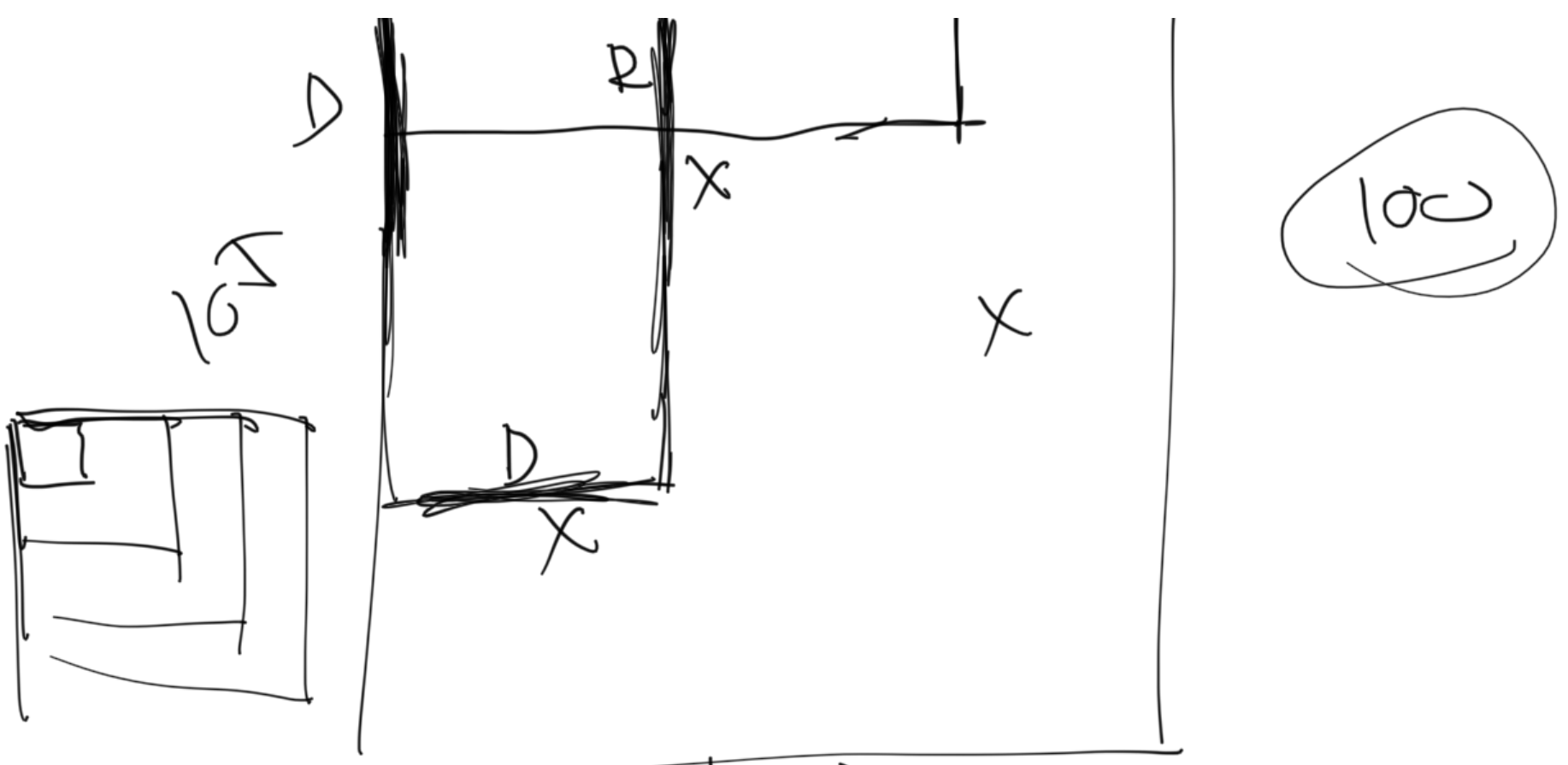
$(10^5)^2 \quad (10^2)^2$

$10^{10} \to 10^4$

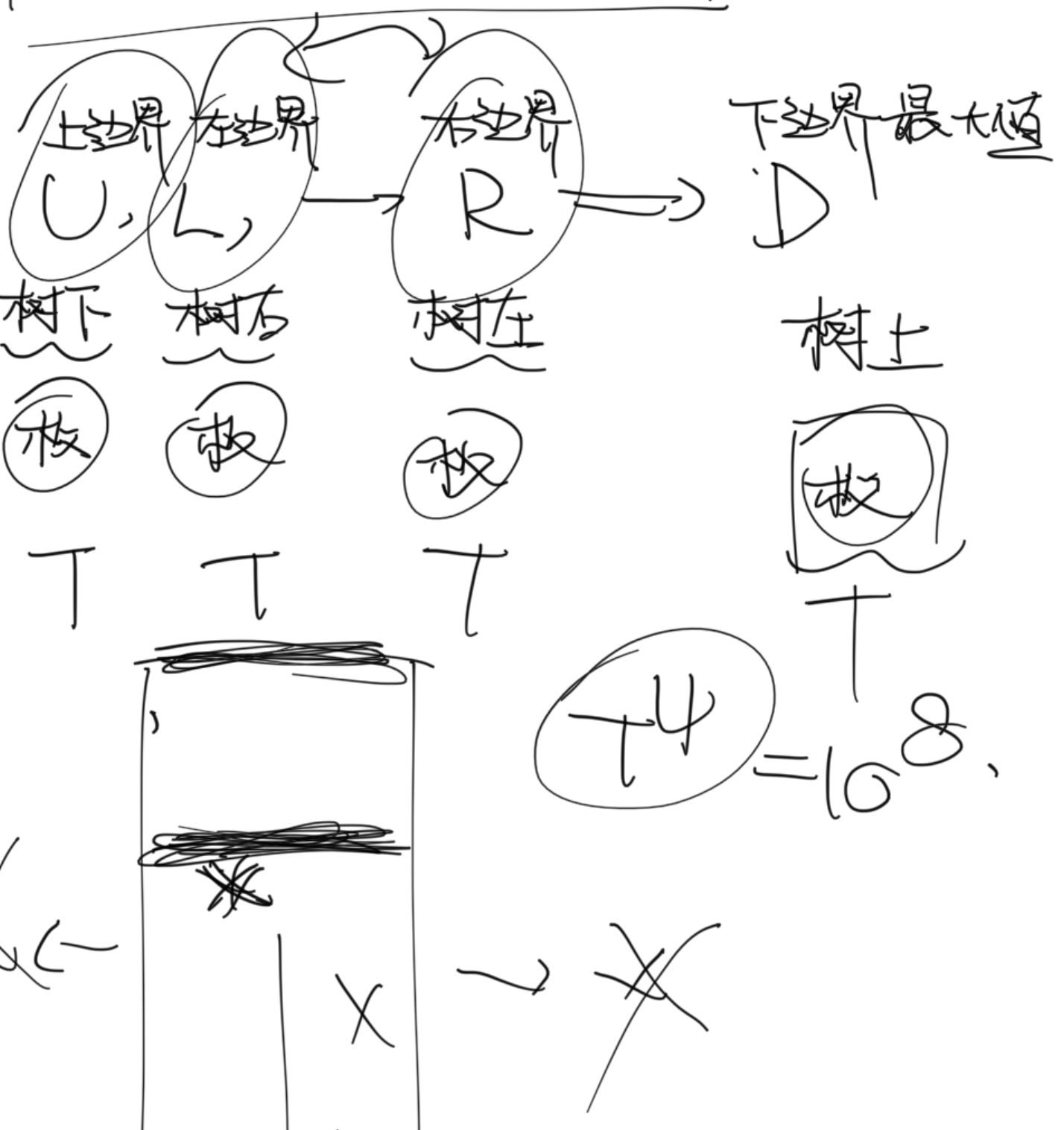
$T^2 \times T^2 \times n = 10^8 \times 10^5 = 10^{13}$

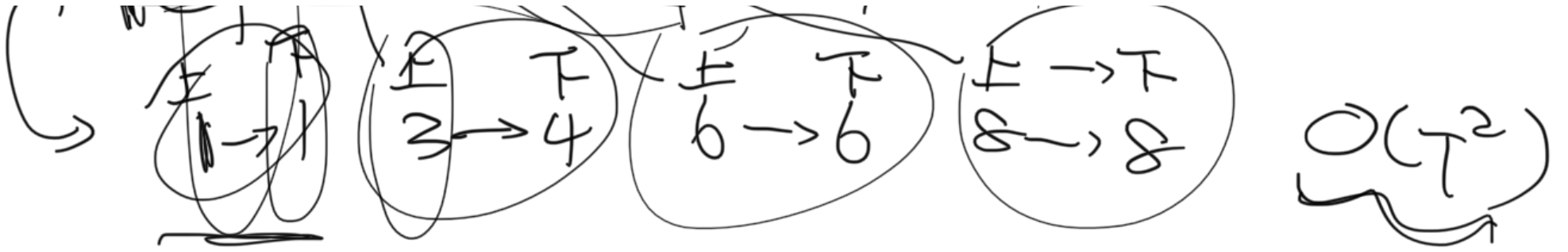
$\log n \qquad 1 \qquad = 10^9$

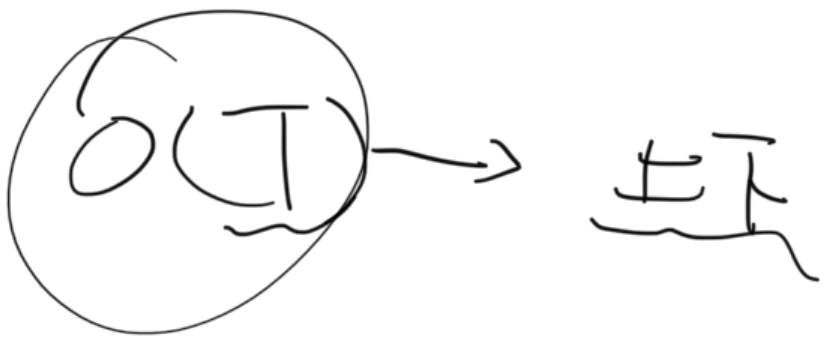


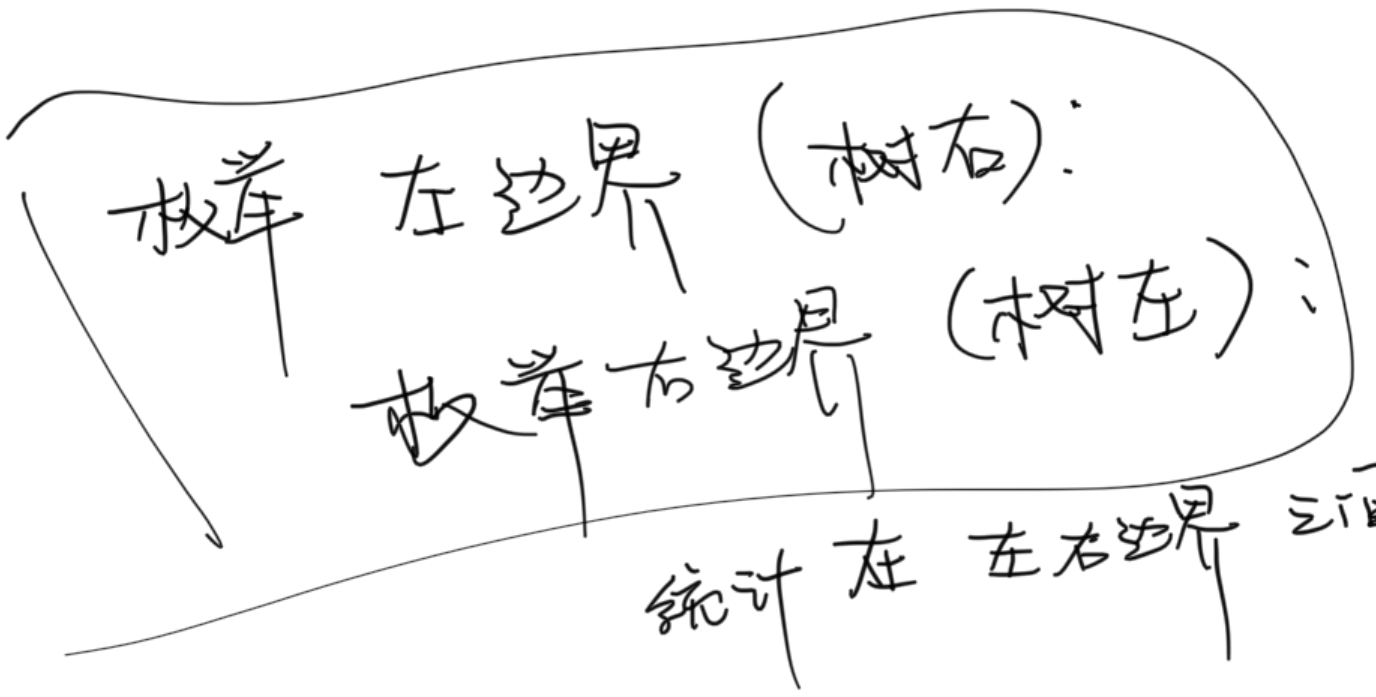

D
R
X
X
D
X

10


上边界
左边界
U、L、
右边界
R
下边界最大值
D
树下
树右
树左
树上
枚
枚
枚
枚
T
T
T
T
=10^8、
X
X
X
X
左右
上下
树所在的行
0 1 2 3 4 5 6 7 8 9
X
X
X
X
X
X







行号 list: 0 2 5 7 9

遍历 list 每两个相邻行号

之间 即为 上、下边界

(2, 5) ⇒ U=3、D=3

min(U-1+1, R-L+1)