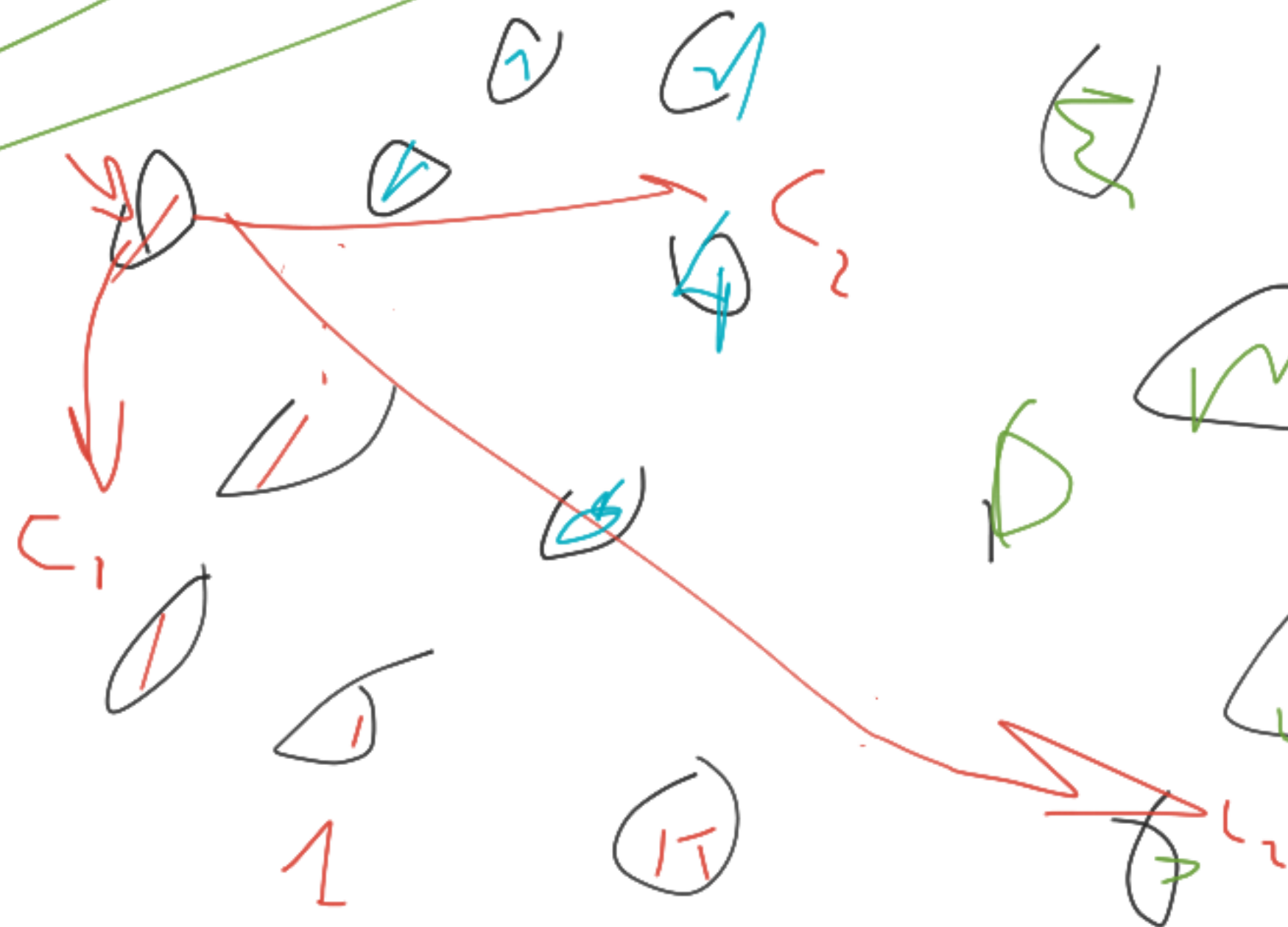




$$\begin{aligned}
 x &= \underbrace{U_1}_{\text{blue}} + \underbrace{V_1}_{\text{red}} \\
 y &= \underbrace{U_2}_{\text{blue}} + \underbrace{V_2}_{\text{red}}
 \end{aligned}$$

$$x \circ y = u_1 \oplus v_2$$

V. Means



EV min \sqrt{e}

→

0	1
7	1 ✓
...	1
N	

$(2 \text{ IO } N/s) \downarrow (d)$

RAM



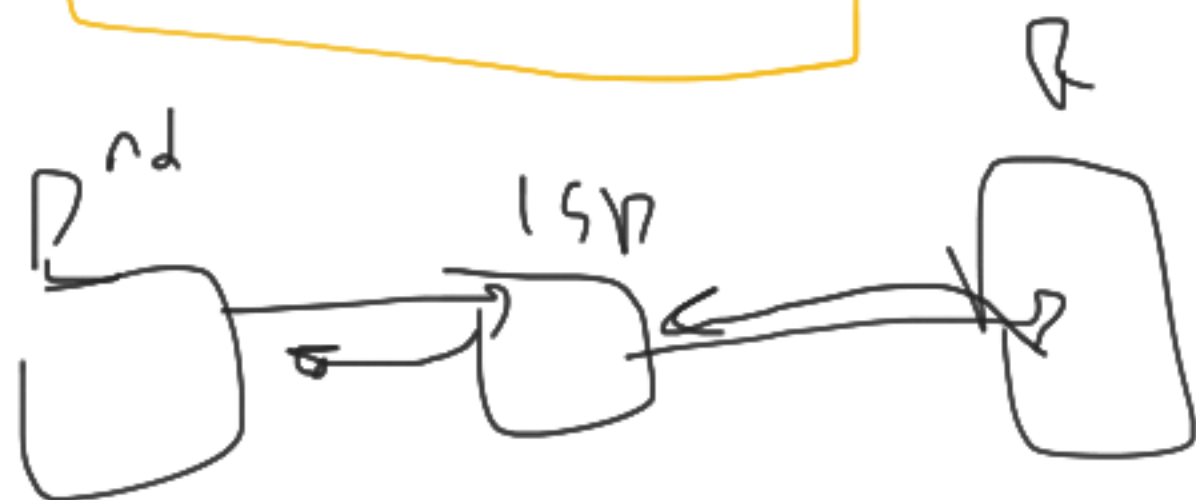
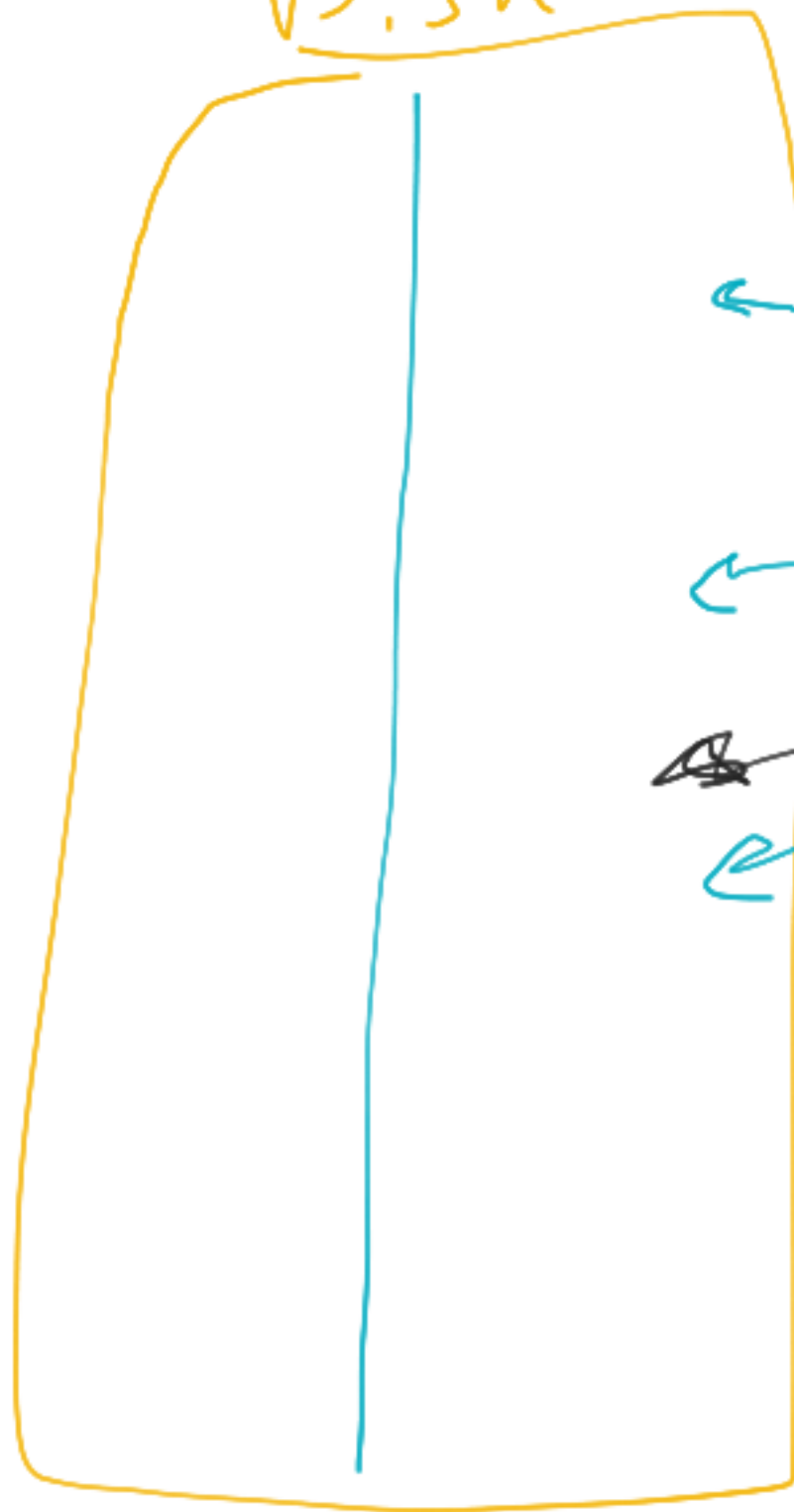
#8 #it. 2
 $2 \text{ IO } \left(\frac{N}{s} \right) \downarrow (L) (d)$



Search kg

Disk

RAM



$$C = [C_1, C_2, \dots, C_k^2]$$

$$C_i = \{u_j, v_k\}$$

$$i \leq N, k \leq k^2$$

1 1
2 2
2 1
2 2





RAM



\rightarrow Candidate
 C_{v2}



$u = \{0060\}$

$v = \{0000\}$

~~$Sov +$~~

base 10

BS

→ 100
→ 110
→ 110

0 2 1 4 2 6 5 8 10

$O(N)$

2
~~20x1~~
5

IC = Passes 1