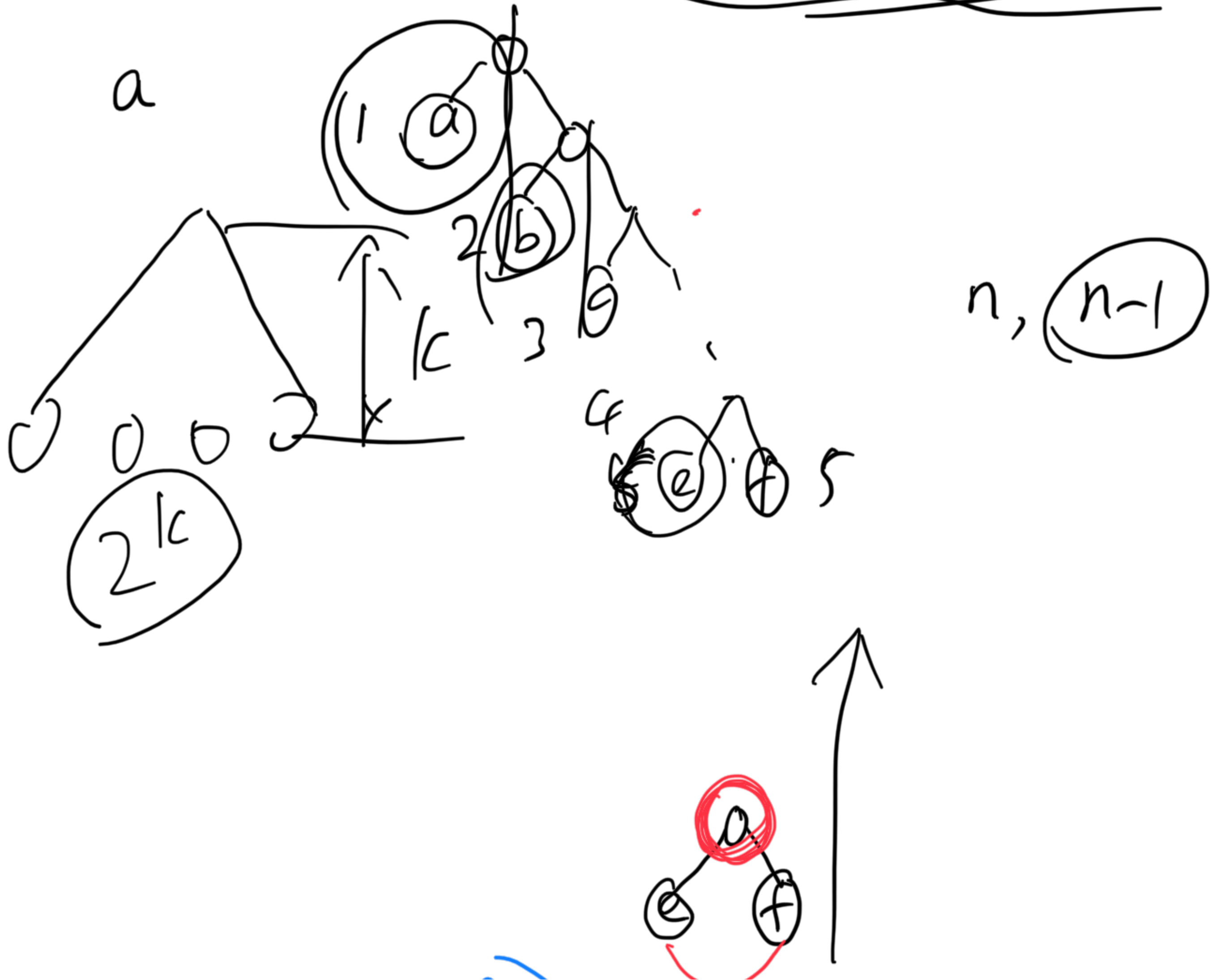
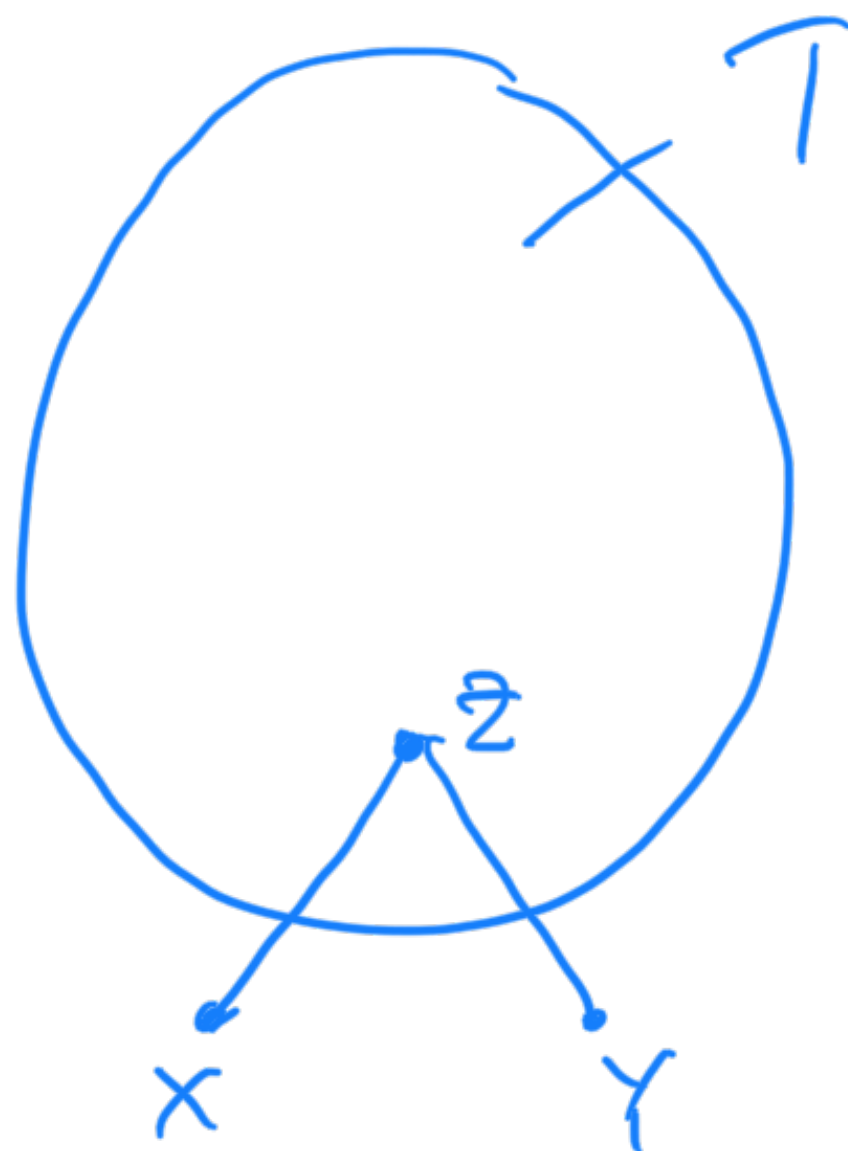


Shorter code to move freq. char.





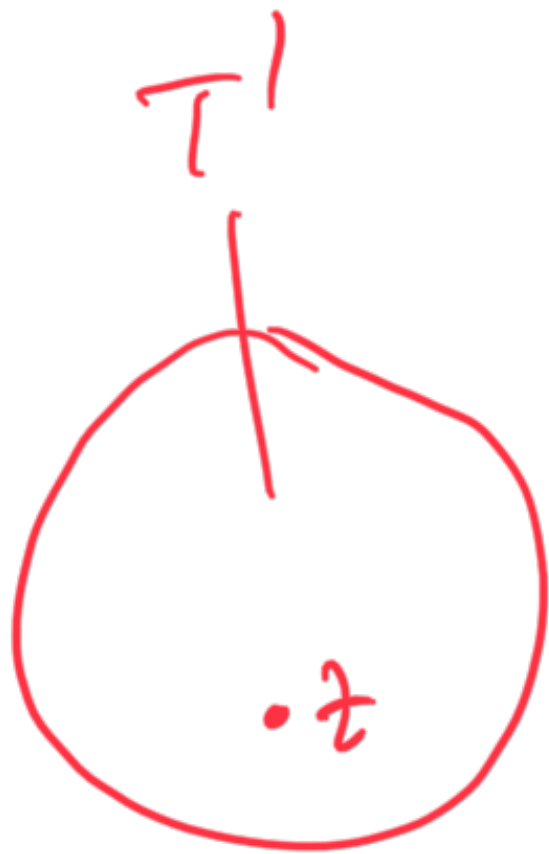
$$d_T(x) = d_T(y) = d_T(z) + 1$$

$$B(\tau) = \sum_{c \neq x, y} c \cdot \text{freq} \times d_{\tau}(c) + x \cdot \text{freq} \underbrace{d_{\tau}(x)} + y \cdot \text{freq} \underbrace{d_{\tau}(y)}$$

$$= \underbrace{\quad} + (d_{\tau}(z) + 1) \times \underbrace{(x \cdot \text{freq} + y \cdot \text{freq})}$$

$$= \underbrace{\quad} + (d_{\tau}(z) + 1) z \cdot \text{freq}.$$

$$= \underbrace{BCT'} + z \cdot \text{freq}.$$



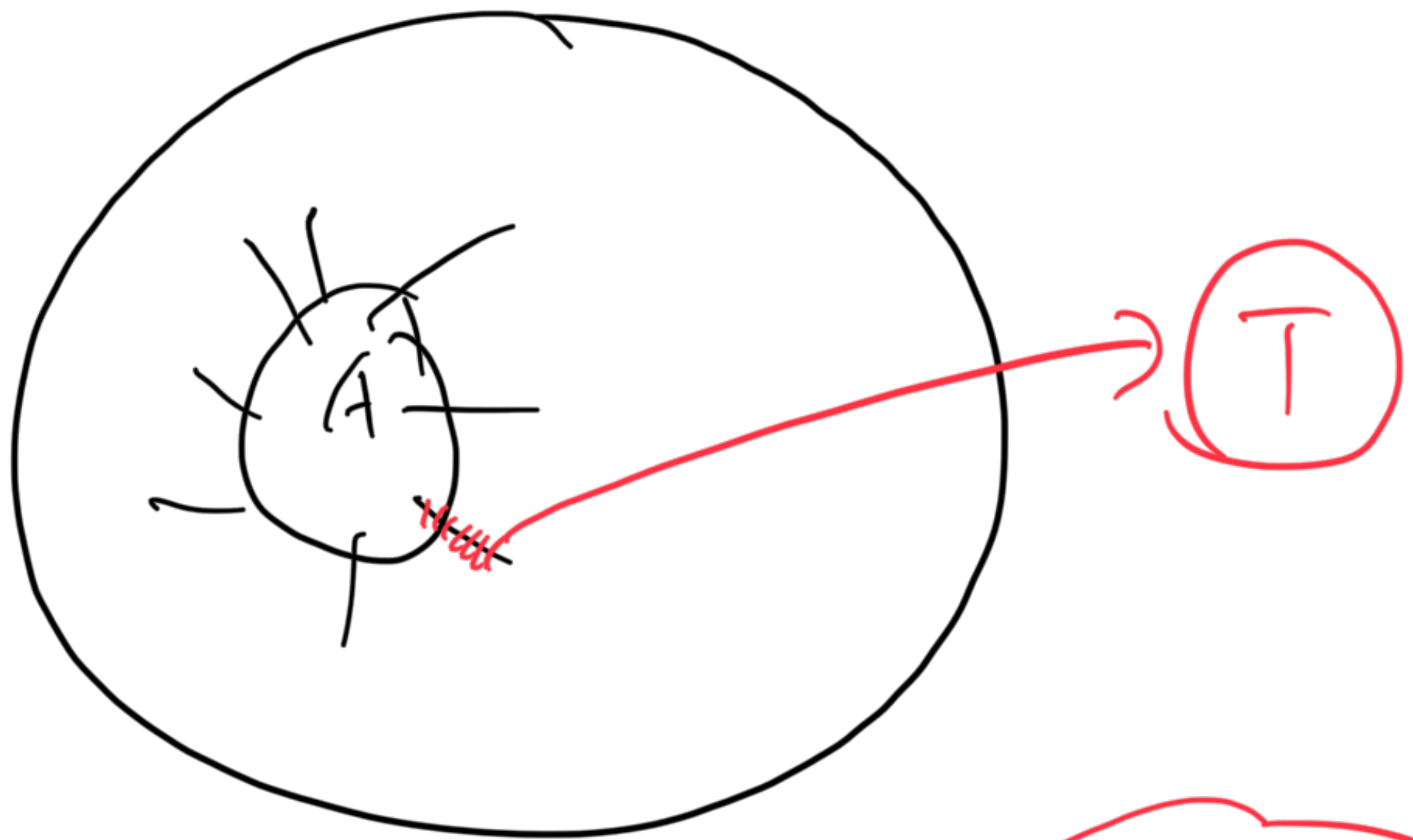
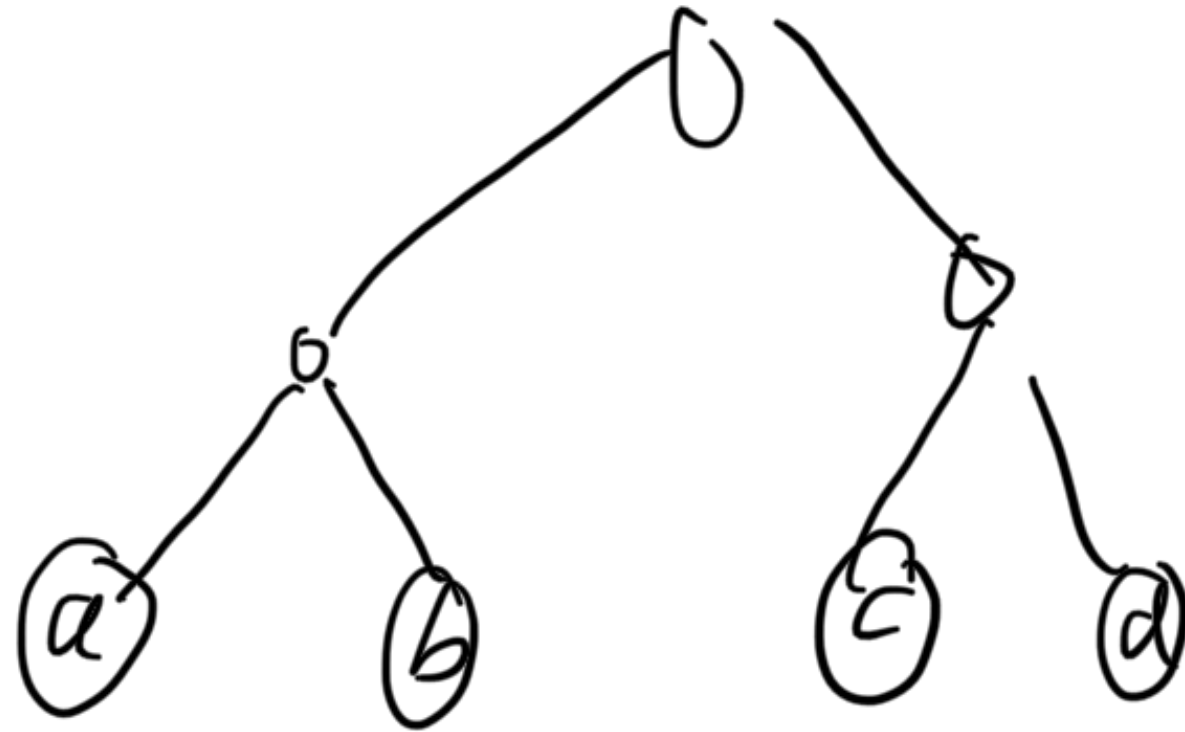
~~a, b~~

c,

d

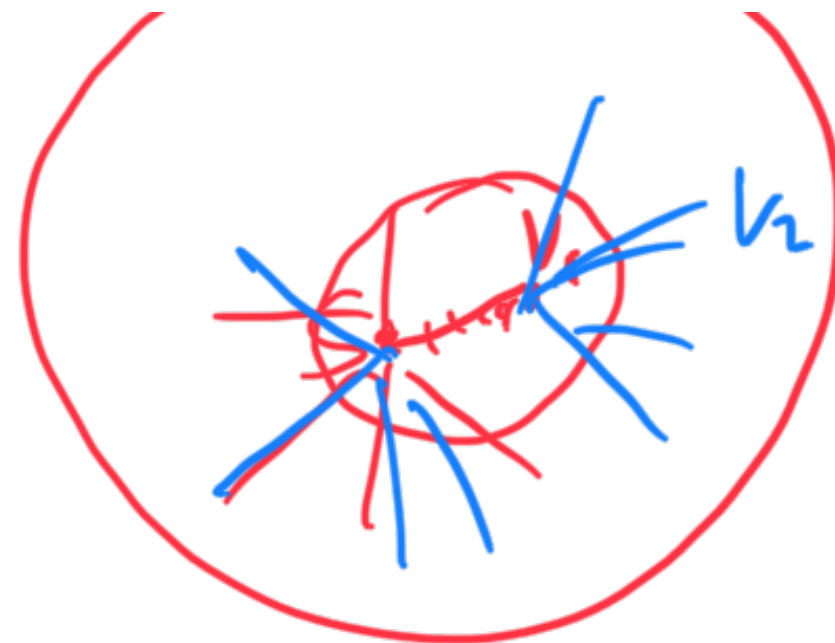
~~to~~ (a, b)

~~25~~ ~~25~~ 25 25 50



$$A_0 = S$$

$$T = \{ (s, v_1) \} \quad (v_1, v_2)$$



$$A_1 = \{ s, v_1 \}$$

$$A_2 = \{ s, v_1, v_2 \}$$



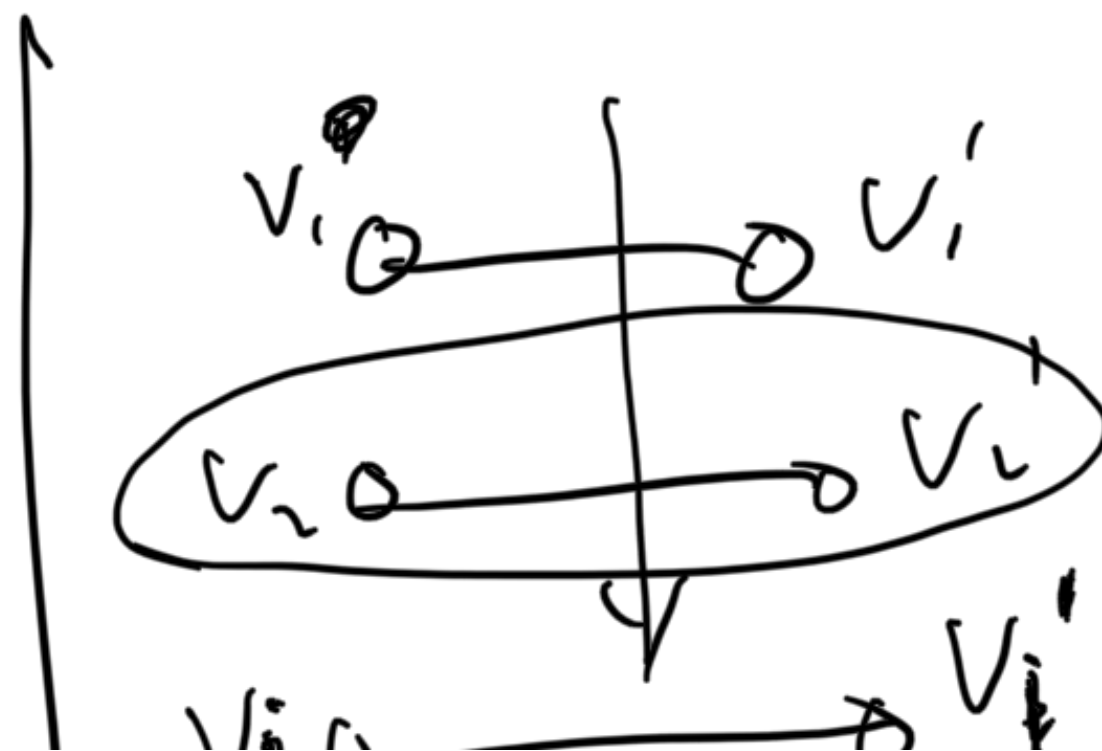
$d(v)$ \rightarrow lowest weight edge
connecting v to A



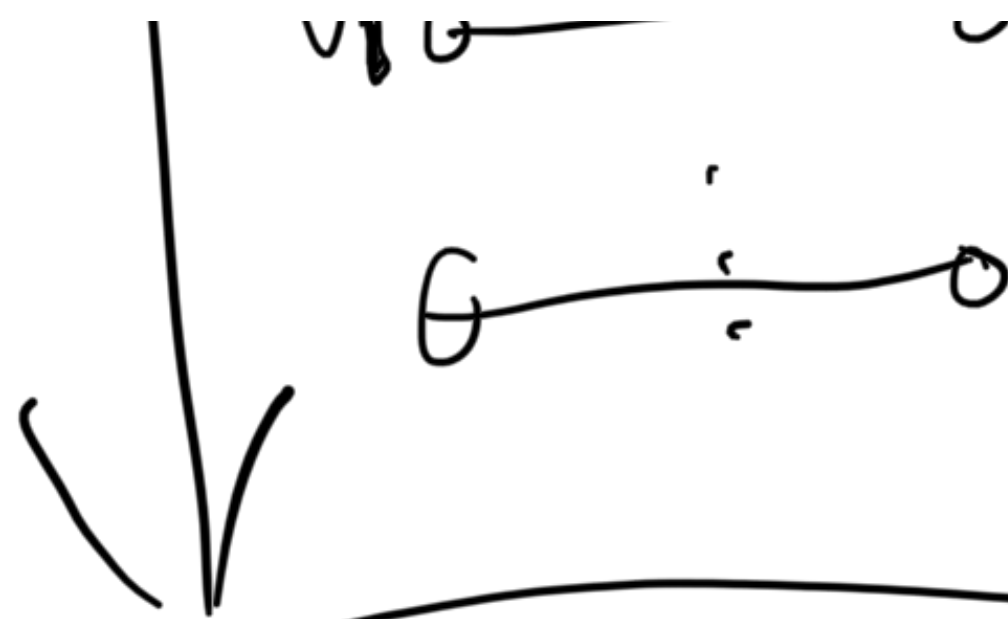


$$w(u, v) < d(v)$$

iteration i



v_i and v_i' not
in the same set



$\langle v_i, v_i' \rangle \in T$

A?

V-A

let A be the set v_i belongs to
now



$\langle v_i, v_i' \rangle$ is the least
weight edge connecting A to
V-A

$\langle v_k, v_k' \rangle$ $k \in i$

v_k , and v_k' both in A

or V_k and V_k' both not in A