

$$m = 3$$

a = total last month

$$n = 3 \quad [0, 1, 1]$$

$$n = 4 \quad [1, 1, 2]$$

b = # died

$$n = 3 \quad [0, 0, 0]$$

$$n = 4 \quad [0, 0, 0]$$

progeny

$$n = 3 \quad [0, 0, 1]$$

$$n = 4 \quad [0, 1, 1]$$

↑
m months ago

↖ last month

mortality = 3 months

$a-b+c = \text{total}$

① $0-0+1 = 1$

② $1-0+0 = 1$

*m ③ $1-0+1 = 2$

④ $2-1+1 = 2$

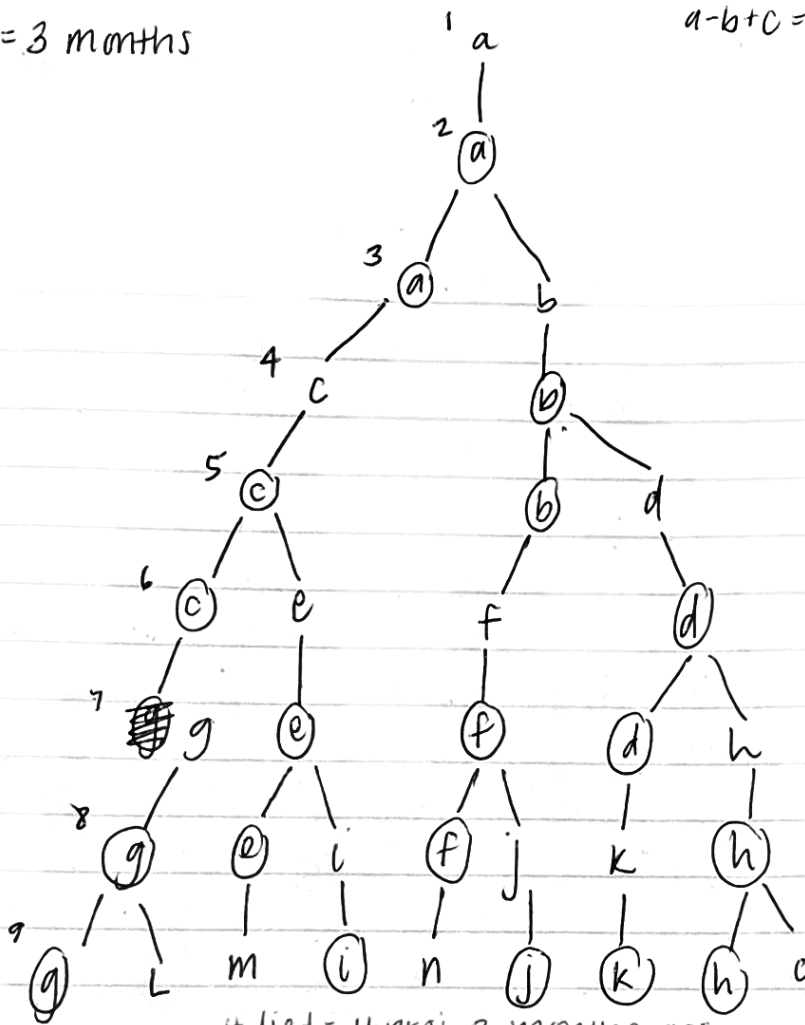
⑤ $2-0+1 = 3$

⑥ $3-1+2 = 4$

⑦ $4-1+2 = 5$

⑧ $5-1+3 = 7$

⑨ $7-2+4 = 9$



#died = #proj 3 months ago

#proj = ~~total 3 months ago~~ $a-b$ last month

↓ #alive last month
↓ #died
↓ new offspring
↓ total alive

mortality = 4 months

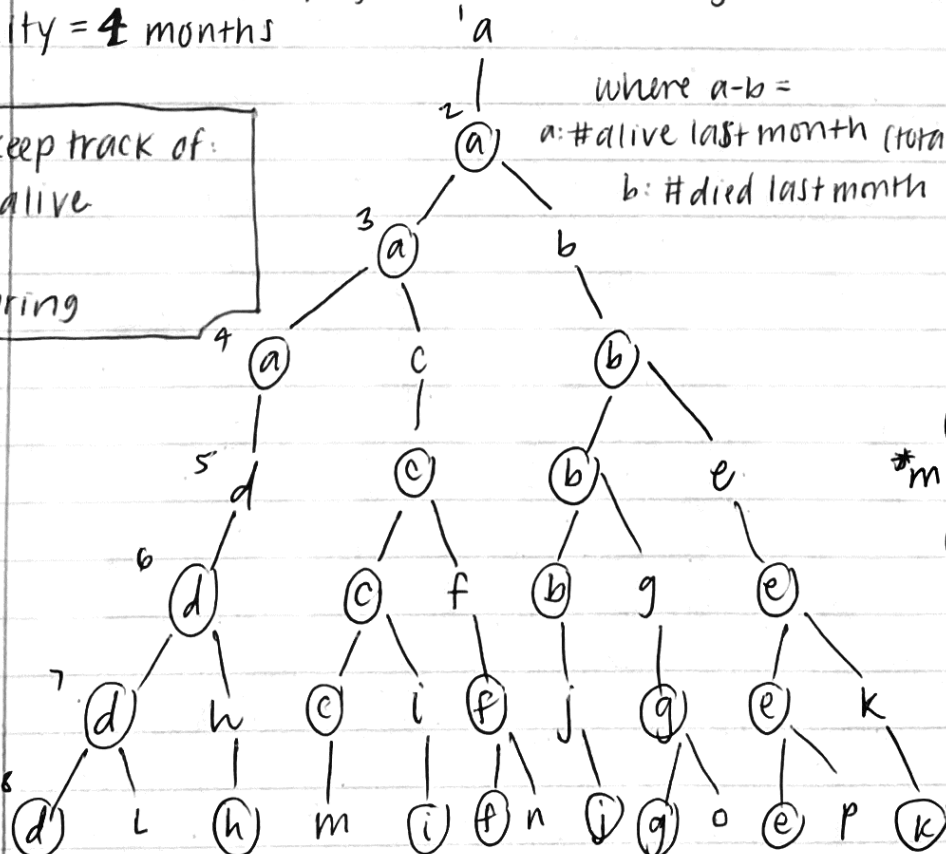
need to keep track of:

- total # alive
- # died
- # offspring

where $a-b =$

a : #alive last month (total)

b : #died last month



#died = #proj 4 months ago

#proj = $a-b$ last month

① $0-0+1 = 1$

② $1-0+0 = 1$

③ $1-0+1 = 2$

*m ④ $2-0+1 = 3$

⑤ $3-1+2 = 4$

⑥ $4-0+2 = 6$

⑦ $6-1+4 = 9$

⑧ $9-1+5 = 13$