

$$(A)_{14} = \frac{1}{2}[(A)_{11} + (A)_{1NA}] = \frac{1}{2} \cdot [1 + 0] = \frac{1}{2}$$

$$(A)_{15} = \frac{1}{2}[(A)_{14} + (A)_{13}] = \frac{1}{2} \cdot [\frac{1}{2} + \frac{1}{2}] = \frac{1}{2}$$

$$(A)_{16} = \frac{1}{2}[(A)_{15} + (A)_{12}] = \frac{1}{2} \cdot [\frac{1}{2} + 0] = \frac{1}{4}$$

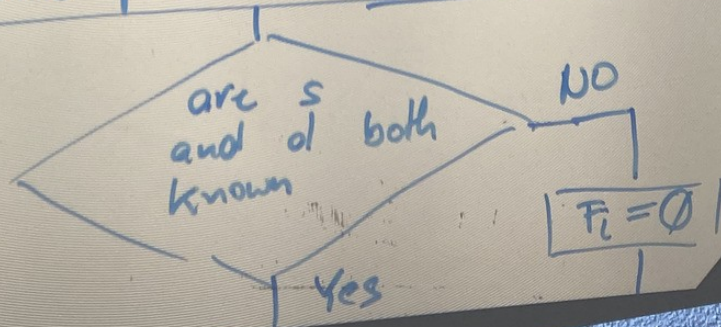
$$(A)_{22} = 1 + F_2 = 1 + \frac{1}{2}(A)_{1NA} = 1$$

Computation of $(A)_{ij}$ requires F_i and $(A)_{sd}$

$$(A)_{ij} = 1 + F_i = 1 + 0.5 \cdot (A)_{sd}$$

only valid for R, if both parents
s and d are known, i.e.
s and d are both not NA

- ① | determine parent s of animal i |
- ② | determine parent d of animal i |



if-statment