

## **agree\_on\_common**<sup>4,23</sup>

$\text{agree\_on\_common}(T; as; bs)$

$\equiv_{\text{def}}$  Case of  $as$

$\text{nil} \rightarrow \text{True}$

$a.as', \text{rec:} \rightarrow$  Case of  $bs$

$\text{nil} \rightarrow \text{True}$

$b.bs', \text{rec:} \rightarrow \neg(a \in bs) \ \& \ \text{agree\_on\_common}(T; as'; bs)$

$\vee \neg(b \in as) \ \& \ \text{agree\_on\_common}(T; as; bs')$

$\vee a = b \ \& \ \text{agree\_on\_common}(T; as'; bs')$

*(recursive)*

*clarification:*

$\text{agree\_on\_common}(T; as; bs)$

$\equiv_{\text{def}}$  Case of  $as$

$\text{nil} \rightarrow \text{True}$

$a.as', \text{rec:} \rightarrow$  Case of  $bs$

$\text{nil} \rightarrow \text{True}$

$b.bs', \text{rec:} \rightarrow \neg(a \in bs \in T) \ \& \ \text{agree\_on\_common}(T; as'; bs)$

$\vee \neg(b \in as \in T) \ \& \ \text{agree\_on\_common}(T; as; bs')$

$\vee a = b \in T \ \& \ \text{agree\_on\_common}(T; as'; bs')$

*(recursive)*