

## **member-merge**<sup>11,40</sup>

$\forall T:\text{Type}.$

$\text{subtype\_rel}(T; \mathbb{Z}) \Rightarrow (\forall bs, as:(T \text{ List}), x:T. (x \in \text{merge}(as; bs)) \iff ((x \in as) \vee (x \in bs)))$