

**preserved\_by**<sup>4,23</sup>

$R$  preserves  $P \equiv_{\text{def}} \forall x, y:T. P(x) \Rightarrow (x R y) \Rightarrow P(y)$

*clarification:*

$\text{preserved\_by}(T;R;P) \equiv_{\text{def}} \forall x:T, y:T. P(x) \Rightarrow (x R y) \Rightarrow P(y)$