

## decidable-last-rel<sup>11,40</sup>

$\forall T:\text{Type}, P:((T \text{ List}) \rightarrow T \rightarrow \mathbb{P}).$

$(\forall L:(T \text{ List}), x:T. \text{Dec}(P(L,x)))$

$\Rightarrow (\forall L:(T \text{ List}). \text{Dec}(\exists L':T \text{ List}. \exists x:T. (L = (L' @ [x]) \ \& \ P(L',x))))$