

## **trans\_rel\_func\_wrt\_sym\_self<sup>13,42</sup>**

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

$\text{Trans}(T;x,y.R(x,y))$

$\Rightarrow \{\forall a, a', b, b':T.$

$\text{Symmetrize}(x,y.R(x,y);a;b) \Rightarrow \text{Symmetrize}(x,y.R(x,y);a';b') \Rightarrow (R(a,a') \iff R(b,b'))\}$