symmetrized_preorder[12,41]

$\forall T$:Type, R:($T \to T \to \mathbb{P}$). Preorder(T;x,y.$R(x,y)$) $\Rightarrow$ EquivRel(T;a,b.Symmetrize(x,y.$R(x,y)$;a;b))

ProofTree

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http://www.nuprl.org/FDLcontent/p0_942988_/p15_4314_{symmetrized_preorder}.html