

Q-R-pre-preserving^{11,40}

f is Q - R -pre-preserving on $P \equiv_{\text{def}} \forall e, e':\{e:\mathbf{E} \mid P(e)\} . (Q(f(e),f(e'))) \Rightarrow (R(e,e'))$

clarification:

$\text{Q-R-pre-preserving}(es;f;P;Q;R)$

$\equiv_{\text{def}} \forall e:\{e:\text{es-E}(es) \mid P(e)\} , e':\{e:\text{es-E}(es) \mid P(e)\} . (Q(f(e),f(e'))) \Rightarrow (R(e,e'))$