

THEOREM $PRThm \Rightarrow PR$

$\langle 1 \rangle 1$. It suffices to assume $PRThm$ and prove PR .

PROOF: Obvious.

$\langle 1 \rangle 2$. It suffices to assume $\forall \sigma : F_i$ for each i and prove $\forall \sigma : G$.

PROOF: By $\langle 1 \rangle 1$ (which asserts that it suffices to prove PR) and the definition of PR .

$\langle 1 \rangle 3$. It suffices to assume τ is an arbitrary behavior and prove G is true of τ .

PROOF: By $\langle 1 \rangle 2$, since $\forall \sigma : G$ means that G is true of all behaviors σ .

$\langle 1 \rangle 4$. F_i is true of τ , for all i .

PROOF: By $\langle 1 \rangle 2$ (which allows us to assume $\forall \sigma : F_i$).

$\langle 1 \rangle 5$. Q.E.D.

PROOF: By $\langle 1 \rangle 3$ it suffices to prove that G is true of τ , which follows from $\langle 1 \rangle 4$ and the definition of $PRThm$ (which we may assume by $\langle 1 \rangle 1$).

CLOSE