91 (drink) There are some people in a bar. Formalize and prove the statement "There's a person in the bar such that, if that person drinks, then everyone in the bar drinks.".

After trying the question, scroll down to the solution.

§ Let *people* be the people in the bar, and let *drinks* be a predicate over *people*.

	$\exists p: people \cdot (drinks \ p) \Rightarrow (\forall q: people \cdot (drinks \ q))$	antidistributive law
=	$(\forall p: people \cdot (drinks p)) \Rightarrow (\forall q: people \cdot (drinks q))$	rename, and reflexive law
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