

# Alpine Club example

		1. $A(tony)$
		2. $A(mike)$
		3. $A(john)$
		4. $L(tony, rain)$
		5. $L(tony, snow)$
$\forall x(A(x) \wedge \neg S(x)) \rightarrow C(x)$	$\Rightarrow$	6. $(\neg A(x), S(x), C(x))$
$\forall x(C(x) \rightarrow \neg L(x, rain))$	$\Rightarrow$	7. $(\neg C(y), \neg L(y, rain))$
$\forall x(\neg L(x, snow) \rightarrow \neg S(x))$	$\Rightarrow$	8. $(L(z, snow), \neg S(z))$
$\forall x(L(tony, x) \rightarrow \neg L(mike, x))$	$\Rightarrow$	9. $(\neg L(tony, u), \neg L(mike, u))$
$\forall x(\neg L(tony, x) \rightarrow L(mike, x))$	$\Rightarrow$	10. $(L(tony, v), L(mike, v))$
$\neg \exists x(A(x) \wedge C(x) \wedge \neg S(x))$	$\Rightarrow$	11. $(\neg A(w), \neg C(w), S(w))$

Note that we must standardize variables.