Procedure **RESOLUTION**

1 $CLAUSES \leftarrow S$

2 **until** *NIL* is a member of *CLAUSES*, **do:**

3 **begin**

4 **select** two distinct, resolvable clauses
c_i and c_j in *CLAUSES*

5 compute a resolvent, r_{ij} of c_i
and c_j

6 *CLAUSES* ← The set produced by adding r_{ij}
to *CLAUSES*

7 **end**

(1) $\sim R(x) \vee L(x)$

(2) $\sim D(y) \vee \sim L(y)$

(3a) $D(A)$

(3b) $I(A)$

(4′) $\sim I(z) \vee R(z)$.

dog(Fido)
owns(Jack, Fido)
$\neg$ dog(y) $\vee \neg$ owns(x, y) $\vee$ animalLover(x)
$\neg$ animalLover(z) $\vee \neg$ animal(a) $\vee \neg$ kills(z, a)
kills(Jack, Tuna) $\vee$ kills(Curiosity, Tuna)
cat(Tuna)
$\neg$ cat(b) $\vee$ animal(b)

$\neg$ kills(Curiosty, Tuna)