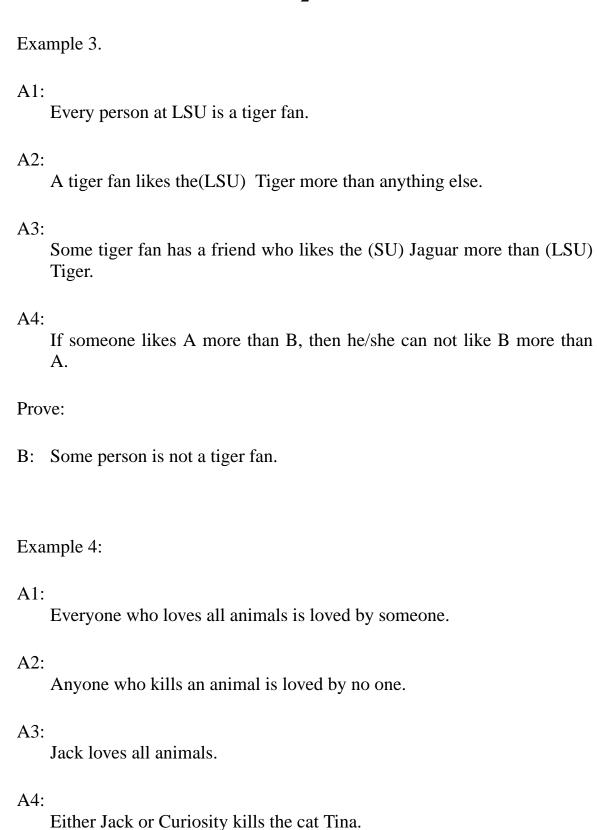Modeling statements with FOL sentences:

Example 1.

A1:
    No patients like a liar.

A2:
    Some patient likes all doctors.

Prove:

B: No doctor is a liar

Example 2.

A1:
    Custom staffs check every non-important person entering the country.

A2:
    Some drug dealer enters the country and is checked only by drug deal-
    ers.

A3:
    No drug dealer is an important person.

Prove:

B: Some customs staff is a drug dealer

Example 3.

A1:

Every person at LSU is a tiger fan.

A2:

A tiger fan likes the(LSU) Tiger more than anything else.

A3:

Some tiger fan has a friend who likes the (SU) Jaguar more than (LSU) Tiger.

A4:

If someone likes A more than B, then he/she can not like B more than A.

Prove:

B: Some person is not a tiger fan.

Example 4:

A1:

Everyone who loves all animals is loved by someone.

A2:

Anyone who kills an animal is loved by no one.

A3:

Jack loves all animals.

A4:

Either Jack or Curiosity kills the cat Tina.

A5:

Cats are animals.

Prove:

B: Curiosity kills the cat Tina.