## Using propositional logic: an example

- From Lady or the Tiger? And Other Logic Puzzles Including a Mathematical Novel That Features Godel's Great Discovery (Raymond M. Smullyan)
- Behind each door we may have either a lady or a tiger. One sign tells the truth but the other one no. Which door shall we open?

1. A lady is in this room and a tiger is in the other
2. There is a lady in one room and a tiger in the other



## Another variation

- There are one lady and two tigers. At most, one sign tells the truth. Which door shall we open?

1. There is a tiger
in this room


2. There is a tiger in room 2

