Stanford University Introduction to Logic

Mike Genesereth March 2012

Home

Video Lectures

Notes

Exercises

Problems

Applications

Puzzles

Discussion Forums

Course Wiki

Help with Subtitles

1.1 Possible Worlds

Question 1

This problem concerns the interpersonal relations of a small sorority. There are just four members - Abby, Bess, Cody, and Dana; and there is just one type of binary relationship - likes. The following table below shows who likes whom. A check in a box of the table indicates that the girl named at the beginning of the row likes the girl named at the head of the column; the absence of a check means that she does not. You can add a relationship by clicking in one of the empty squares of the table; you can remove a relationship by clicking in a checked square.

	Abby	Bess	Cody	Dana
Abby				
Bess				
Cody				
Dana				

The sentences in the table below describe some relationships among the girls, with an indication of whether they are true or false in the world depicted in the first table. As you change the world, the truth values of these sentences are recomputed and displayed in this table.

Sentence	Truth Value
Dana likes Cody.	true
Bess does not like Dana.	true
Cody does not like Abby.	true
Nobody likes someone who does not like her.	true
Abby likes everyone who likes Bess.	true
Dana likes everyone Bess likes.	true
Everybody likes somebody.	true

Change the world so as to make all seven sentences at	anya trua

_			

Submit Answers

Save Answers