

CH2 Homework

1. A farmer has a ship, a chicken, a bag of rice, a dog. He need to take all of them cross the river. But, this ship is too small. He only can take two of them together in his ship. But, chicken will eat rice, dog will bite chicken if they are in a ship. Please schedule this transfer plan for him. (You can try to write code to do this task.)
2. If you want to write a program to automatically make inference, please describe how difficult it is?

- Due: 3/13 10AM

CH2 Homework

(practice) Write an argument (include statement description) and prove it is valid. (More complicated argument gets a higher score)

– A baseline example:

- p : It rains. q : absent from discrete mathematics
- Argument $((p \rightarrow q) \wedge \neg q) \rightarrow \neg p$
 - If it rains, I will be absent from discrete mathematics.
 - I join the discrete mathematics today.
 - Conclusion: Today is not rainy.

CH2 Quiz Practice

- 2.2: 6, 16
- 2.3: 10
- 2.4: 10, 14, 18
- 2.5: 10
- Supplementary: 4