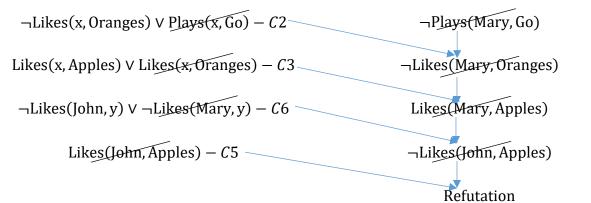
```
(¬Stench(x) ∨ Adjacent(x, C)) ∧ (¬Stench(x) ∨ At(Wumpus, C))
Apples (x, Apples) ⇒ Plays (x, Chess)
```

- a. $\forall x[Likes(x, Apples) \Rightarrow Plays(x, Chess)]$
- b. $\forall x[Likes(x, Oranges) \Rightarrow Plays(x, Go)]$
- c. $\forall x [\neg((Likes(x, Apples) \lor Likes(x, Oranges))) \Rightarrow (Likes(x, Apples) \land Likes(x, Oranges))]$
- d. Likes(John, Apples)
- e. $\forall y[Likes(John, y) \Rightarrow \neg Likes(Mary, y)]$

3.

- a. \neg Likes(x, Apples) \lor Plays(x, Chess) C1
- b. \neg Likes(x, Oranges) \lor Plays(x, Go) C2
- c. (Likes(x, Apples) \lor Likes(x, Oranges)) \land (\neg Likes(x, Apples) \land \neg Likes(x, Oranges)) C3 \land C4
- d. Likes(John, Apples) C5
- e. ¬Likes(John, y) ∨ ¬Likes(Mary, y) C6

4.



Sorry, this doesn't look really nice but I have no idea how to make it better 🕾

5. Input:

Output: