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HW3

Created a data structure for Sentences, its has a LHS and RHS of Atoms

Atoms have a predicate and a list of arguments

My fire() for FC is stuck in a while loop that continues to loop while I create new inferences. It exits and returns if I do not have any new inferences. It then runs through a double while loop, The outer going through each rule and inner through each fact to attempt to infer new rules (new rules are added once both loops are done).

IFC's fire() is almost the same code but I have an extra check to make sure that any inferences not made by the new facts added are not printed out. For my code implementation the efficiency is slightly greater because the code skips some iterations and if statements if the inference is not from the new facts. But checking for that condition itself takes some processing power. Except for large problems, the program efficiency gains is not great. What is better is the conciseness of the output, making it easy to read and more streamlined to put into another program if I so desire. If this were the first part in a multi staged logic program then IFC would save an incredible amount of time.