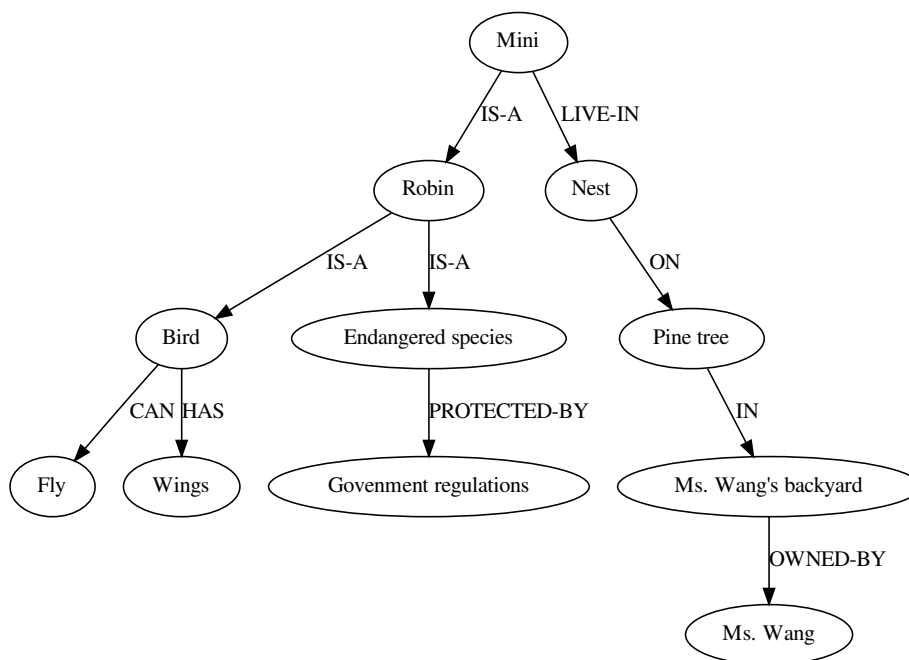


CIS 7414X: Homework Assignment 2

1. Construct a semantic network for the following situation: Mini is a robin; it lives in a nest which is on a pine tree in Ms. Wang's backyard. Robins are birds; they can fly and they have wings. They are endangers species and they are protected by government regulations.



2. You are given a set of rules for this question: Should we buy a house

or not?

R1: IF inflation is low
 THEN interest rates are low
 ELSE interest rates are high
R2: IF interest rates are high
 THEN housing prices are high
R3: IF housing prices are high
 THEN do not buy a house
 ELSE buy it

- (a) Run a backward chaining with a high inflation rate as given.
- (b) Run a forward chaining with a low inflation rate as given.
- (c) Prepare an inference tree fro the backward chaining case.

