

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.