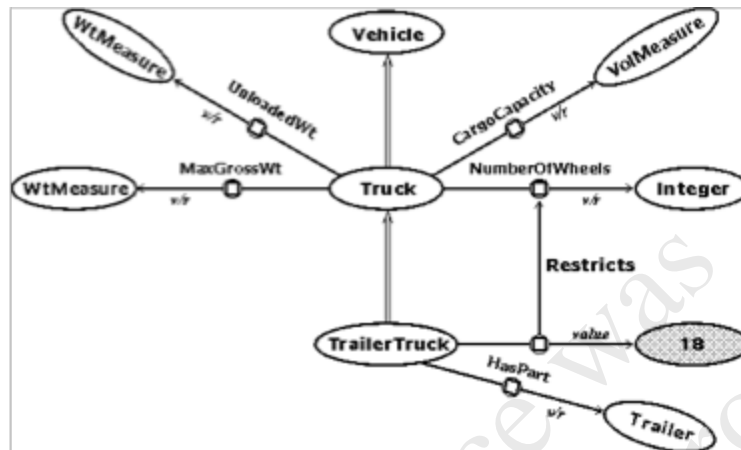


CS561 Artificial Intelligence
Quiz 6c
Thursday, March 13, 2014

Name:
Student ID:
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Given this semantic network for Vehicle, answer the questions below:



1. [5pts] Can this semantic network be used to classify Vehicle V_1 that has 18 wheels and a trailer as a TrailerTruck? If yes, how? If no, why not?

Yes, in this network the only type of vehicle that has both a trailer and 18 wheels must be by definition a TrailTruck.

2. [5pts] Draw the semantic network to represent this knowledge: if object x_1 is an element of the class Cupcakes, Cupcakes is a subclass of Dessert, All Dessert is sweet, Dessert is a subclass of Food, and all Food is edible, then x_1 is sweet and edible.

