Homework 6: chart parsing

- Q1 Modify the functions init_wfst() and complete_wfst() so that chart cells contain a set of nonterminals (exercise 26 of NLTK book chapter 8). Turn in diagnostic output from your modified code along with a writeup that cogently explains how that chart encodes both analyses of "I shot an elephant in my pajamas" on the groucho grammar.
- Q2 (mandatory for grads, extra credit for ugrads) Upgrade your system from a recognizer to a parser by changing the elements in a chart entry so that they are triples of the form

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( Category, Rule, MidPoint )
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Write a recursive function that returns a collection of trees, given a chart. Here is an idea to get you started:

Note that you only have to consider grammars in Chomsky Normal Form. Demonstrate that your parser works correctly on the L1 grammar from chapter 12 of Jurafsky and Martin SLP3. Make it into a generator if you want.