Homework unit 4: Simple and stupid coref

Due at:

Goal: We want to create a super simple co-ref system. It looks for Named Entities and pronouns in the text. When it finds a pronoun, it just attaches it to the previous Named Entity.

Steps:
1. Have some short input document (a couple of sentences, which contain Corefs.)
2. Apply POS-tagging to the document (with NLTK or spaCy)
3. Apply NE-Recognition to the document (with spaCy or NLTK)
4. For any pronoun -- replace it with previous Named Entity
5. Print to result text.
6. **Evaluate your system** with a couple of input sentences -- you are the **domain expert**!
   a. For evaluation you can use any metric you want (either check what is available, or just invent something)
7. Present results.
8. Run **spaCy** coref on the same text
9. **Compare evaluation results** of **spaCy** and your system

Bonus (optional):
1. Make your coref detection a bit more smart - if you want