START OF QUIZ
Student ID:
10237352,Shan,Zhengyi

Question 1

Topic: Lecture 3
Source: Lecture 3

Explain how phrasal attachment errors produce ambiguity. (1)

Question 2

Topic: Lecture 4
Source: Lecture 4

Why do we not evaluate parsers by the number of correct nodes in the tree? (1)

Question 3

Topic: Lecture 4
Source: Lecture 4

Briefly describe how underspecification works in a feature grammar. (1)

Question 4

Topic: Lecture 2
Source: Lecture 2

Why do we not use accuracy to evaluate chunkers? Can you think of any other tasks where this might be as big (or bigger) of a problem? (1)

Question 5

Write the parenthetic parse of the following sentence: "I will not eat green eggs and ham." (1)

Question 6

Imagine, if you will, a "mildly-context-sensitive" grammar, that only allows for one non-terminal to appear as a contextual marker (let's call it "CON"). Anything not involving CON has to satisfy CFG rules. Do you think that this would be restrictive enough to satisfy the small number of cases that don't satisfy context-freedom, without just being a CSG in disguise? (2)

Question 7

Imagine you're working on analysing customer feedback, and your boss wants you to identify the most common complaints. How might you use your parsing knowledge to automate and distill the most common complaints? You can assume that complaints have already been labeled with the product they are complaining about. You can also assume that just sorting the frequency of tokens is going to be insufficient. (2)

Question 8

Imagine someone develops a new parser that has 100% accuracy. The developer claims it has 100% on every test set they've tried. Why might you be sceptical of such claims? How would you go about trying to disprove them? (2)

Question 9

Topic: Long
Source: Lecture 4

Imagine you're building a tool to help second language learners of language X. You have a grammar of their first language (L1), and a grammar of the language they are trying to learn (X). How might you build a tool that learns how to translate a production from L1 into X? Describe any additional data or tools you might need, and the process you would use to learn a "production-translation grammar". Also explain how you could use this to create illustrative examples of how the syntax of language X works.

END OF QUIZ