START OF QUIZ
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Question 1

Topic: Lecture 4
Source: Lecture 4

In both of our neural examples for SRL, we provided an explicit indicator of the predicate (either as a binary feature, or as a separate feature to Bert). Why do you think this is necessary? (1)

Question 2

Topic: Lecture 2
Source: Lecture 2

How can we use POS/morphological tagging to aid in temporal relation extraction? (1)

Question 3

Topic: Lecture 1
Source: Lecture 1

Why are CRFs generally preferable to HMMs when it comes to NER? (1)

Question 4

Topic: Lecture 3
Source: Lecture 3

How can semantic roles be used to identify relations in relation extraction? How can they help us identify false positives from our system? (2)

Question 5

Topic: Lecture 3
Source: Lecture 3

Roles like "Subject / Object" don't translate very well across some languages (most notably between Nominative-Accusative languages like English, and Ergative-Absolutive languages, like Basque). Do you think that semantic roles are more likely to be consistent? Briefly explain why or why not. (2)

Question 6

Topic: Lecture 2
Source: Lecture 2

Consider the following sentences: "James married Joyce in 2010. Their son Ulysses was born in 2013. In 2015, James and Joyce divorced." Extract all of the RDF triples you can from the sequence. (2)

Question 7

Topic: Lecture 1
Source: Lecture 1

Explain one way that NER tagging is similar to POS tagging, and two ways it's different. (1)

Question 8

Topic: Lecture 4
Source: Lecture 4

Can you think of a way to combine the two neural SRL models we looked at in class? (1)

Question 9

Topic: Coding
Source: Lecture 4

Assume that our fancy SR labeler has been run on the following sentence: "Do androids dream of electric sheep?" Imagine that we ran the sentence with 2 different predicates: "dream" and "do", and obtained the following scores. NP1 = (NP(NNs androids)) NP2 = (NP(JJ electric NNS sheep)) NP3 = (PP(of (NP2)) do: NP1: 0.5, 0.3 NP2: 0.3, 0.5 NP3: 0.2, 0.4 dream: NP1: 0.4, 0.6 NP2: 0.2, 0.3 NP3: 0.4, 0.7 Assuming the standard constraints we talked about in class, what is the most likely parse? Show your work! (3)

END OF QUIZ