

# START OF QUIZ

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## Question 1

Topic: Lecture 2

Source: Lecture 2

Identify the events in the following sentences, and place them in order. Identify the cues you used to determine the order. Every morning, on my walk to the University, I read an audiobook while watching for birds. I start up my laptop after I get to class, and then wait for students to arrive so I can start the lecture. (2)

## Question 2

Topic: Lecture 4

Source: Lecture 4

Why do you think that we pass the output of our classifier to an ILP solver instead of just incorporating the constraints into the model? (1)

### Question 3

Topic: Lecture 1

Source: Lecture 1

Imagine that we were using the Viterbi algorithm to ensure that our sequence of NER tags is valid. What might the scores in the transition matrix look like? (2)

## Question 4

Topic: Lecture 1  
Source: Lecture 1

What lexical features might you use to identify the named entities in the following sentences? “Ronald Reagan? The actor? Then who’s Vice-President, Jerry Lewis? I suppose Jane Wyman is the First Lady! And Jack Benny is Secretary of the Treasury!” (At least 2)  
(1)

## Question 5

Topic: Lecture 4

Source: Lecture 4

If we were to attempt joint NER and SRL, how would we set up the model? Describe the input, the architecture, and the output. (2)

## Question 6

Topic: Lecture 3

Source: Lecture 3

Thinking in terms of vector semantics, do you think that each dimension of word embeddings could be considered a “semantic fundamental” (like “speaking”, “load”, “incoherent”, etc.). Briefly explain. (1)

## Question 7

Topic: Lecture 2

Source: Lecture 2

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



## Question 8

Topic: Lecture 3

Source: Lecture 3

Imagine that we came across the word “extrambulate” in the following sentence: “Realizing that she was going to be late for the bus, Jane extrambulated to the stop.” What verb class does this verb belong to? What are 2 features that distinguish it from the prototype of the class? (1)

## Question 9

Topic: Coding

Source: Lecture 1

In class, we briefly mentioned that F1 score may be too harsh for NER (If our model finds part of an entity, it should get partial credit). Write code that calculates this more generous measure. If the system discovers the first word in the entity (ie, "Charles" for "Charles M. Burns"), it should get 0.5 points, instead of the full 1 point it would get for the whole name. (We'll stick to the first word, only - if we consider any part, it gets tricky: what if our system identifies "Charles" and "M. Burns" as two separate entities?) (3)

**END OF QUIZ**