START OF QUIZ
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Question 1

Topic: Lecture 6
Source: Lecture 6

In class, we mentioned a few different file types that are actually XML (such as .html, .doc, and .ipynb). Do you think that you could represent a Python library as an XML document? If so, what kind of tags might you need to cover some of the syntactic rules of Python? If not, why not? (2)

Question 2

Topic: Lecture 8
Source: Lecture 8

Why do Python programmers like JSON files so much? (1)

Question 3

Topic: Lecture 6
Source: Lecture 6

Imagine that you're building a web scraper, and you find that most of the information presented on the front page is just a collection of links to other pages, so you can't just parse it with an XML parser. What extra functionality would you have to build into your scraper to actually get all the XML data? (2)

Question 4

Topic: Lecture 7
Source: Lecture 7

Do you think it would be easy or hard to build a training set for a sentence segmenter? Explain. Do you think it would be easier or harder to build a training set for a word tokenizer? What kind of assumptions would you be making about the difficulty of the task? You don't need to worry about the ML tool used - this is about building the training set. (2)

Question 5

Topic: Lecture 5
Source: Lecture 5

In the last review set, there was a question about identifying valid floats using string operations. How would you do it with a regex? Explain the logic. (1)

Question 6

Topic: Lecture 5
Source: Lecture 5

How would you use regexes to do sentence segmentation? Do you think it could correctly identify all cases? Explain. (1)

Question 7

Topic: Lecture 8
Source: Lecture 8

What is the purpose of an archive (2 reasons). (1)

Question 8

Topic: Lecture 7
Source: Lecture 7

What impact does lemmatization or stemming have on TTR? How might that affect our algorithms? (1)

Question 9

Topic: Long
Source: Long

Imagine that you're working with a linguist who is not very good with technology. They store all of their data in .docx files, scattered across their desktop. What arguments would you make for them to convert to .tsv or .json, and how would you alleviate their worries that they wouldn't be able to access or modify their information (no, you can't teach them Python)? (3)

END OF QUIZ