START OF QUIZ
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Question 1

Topic: Lecture 3
Source: Lecture 3

When we nest deep structures in dictionaries, we lose their O(1) benefits. Can you think of a better way to represent complex data sets? (1)

Question 2

Topic: Lecture 1
Source: Lecture 1

How would you convert a string into a list of characters? (1)

Question 3

Topic: Lecture 4
Source: Lecture 4

What are two potential drawbacks of removing stopwords from a text before conducting a sentiment analysis? (1)

Question 4

Topic: Lecture 2
Source: Lecture 2

What role does linguistic annotation provide for corpora, specifically for computational linguistics? (1)

Question 5

Topic: Lecture 3
Source: Lecture 3

How does a defaultdict differ from a regular dictionary in Python? (2 differences) (1)

Question 6

Topic: Lecture 1
Source: Lecture 1

Write a function that capitalizes the first letter of each word in a string, without using the .title() method or any external libraries. What are some assumptions that you are making? (2)

Question 7

Topic: Lecture 4
Source: Lecture 4

In French, negation is often indicated by ”ne ... pas” (ie, ”je ne parle pas” - ”I am not speaking”; ”tu ne conduis pas” - ”You are not driving”, etc.). However, in speech, one of the two is often dropped: ”je ne parle.” or ”tu conduis pas.”. Using this information, how would you determine whether a corpus was composed of written or spoken French? You don't need to write the code, but explain the logic that you would use to come to this conclusion. (2)

Question 8

Topic: Lecture 2
Source: Lecture 2

If you were to analyze a corpus for stylistic differences, how might you determine: the formality of the language; whether it's written or spoken; its sentiment? Assume that we don't have existing ML tools or enough data to train one. (2)

Question 9

Topic: Long
Source: Lecture 1

Write a function that validates if a string matches a phone number format, such as (123) 456-7890. What types of invalid inputs should the function check for? Are there edge cases we would be willing to accept? How would we handle those? Write 3 test cases - 2 that should pass, and one that should fail. (3)

END OF QUIZ