

START OF QUIZ
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Question 1

Topic: Lecture 3

Source: Lecture 3

When would we want to represent linguistic data in a list, instead of a dictionary or a set? (1)

Question 2

Topic: Lecture 3

Source: Lecture 3

What is the Big O time complexity of finding the elements in a set that intersect with an iterable (ie, string, list, etc)? Briefly explain. (1)

Question 3

Topic: Lecture 1

Source: Lecture 1

Why is the `.split()` method useful when working with sentences or phrases? (1)

Question 4

Topic: Lecture 4

Source: Lecture 4

Why does the lexical diversity (type-to-token ratio) typically increase when analyzing smaller sub-corpora rather than larger ones? What does this suggest about the content of smaller texts? (1)

Question 5

Topic: Lecture 2

Source: Lecture 2

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

Question 6

Topic: Lecture 1

Source: Lecture 1

You are given a sentence. Write a function to count how many words in the sentence start with a vowel, without using loops or list comprehensions. (2)

Question 7

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 8

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 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