

START OF QUIZ

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Question 1

Topic: Lecture 2

Source: Lecture 2

Why is it important to understand the intended audience and time period of a corpus when conducting linguistic analysis? (1)

Question 2

Topic: Lecture 4

Source: Lecture 4

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

Question 3

Topic: Lecture 4

Source: Lecture 4

Given a list of tuples where the first element is a string and the second is an integer, write a short piece of code to sort the list in descending order based on the second element. Briefly explain your approach. (1)

Question 4

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 5

Topic: Lecture 1

Source: Lecture 1

What are two ways to check if a string is a palindrome, without reversing the string? (1)

Question 6

Topic: Lecture 2

Source: Lecture 2

Is it possible for a corpus of a low-resource language to follow Zipf's law? What factors might influence the degree to which the law applies in such languages? (2)

Question 7

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 8

Topic: Lecture 3

Source: Lecture 3

Imagine you have a large text corpus in English and Spanish and want to automatically align sentences for machine translation. What are some straightforward methods you could use to identify sentence pairs that are likely translations of each other? (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