

START OF QUIZ

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Question 1

Topic: Lecture 1

Source: Lecture 1

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

Question 2

Topic: Lecture 4

Source: Lecture 4

Would you expect a higher or lower frequency of passive voice constructions in legal documents compared to casual conversation? Briefly explain your reasoning. (Remember that passive voice is a structure like "the tree was cut down", inverting the subject and object). (1)

Question 3

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 4

Topic: Lecture 4

Source: Lecture 4

In class, we removed stopwords by using a lexicon. Can you think of another way that we could remove all closed class words? (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 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