

START OF QUIZ

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Question 1

Topic: Lecture 2

Source: Lecture 2

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

Question 2

Topic: Lecture 1

Source: Lecture 1

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

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

Question 5

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 6

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 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