

START OF QUIZ

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Question 1

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 2

Topic: Lecture 3

Source: Lecture 3

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

Question 3

Topic: Lecture 2

Source: Lecture 2

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

Question 4

Topic: Lecture 1

Source: Lecture 1

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

Question 5

Topic: Lecture 2

Source: Lecture 2

How does Zipf's law help explain the distribution of word frequencies in a corpus? What impacts does that have on our algorithms? (1)

Question 6

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 7

Topic: Lecture 4

Source: Lecture 4

Attributive adverbs are a type of adverb that provides "flavour" to speech verbs (example: "she said quickly"; "he spoke loudly"). They are often frowned upon in formal writing, because they can be replaced with other verbs: "blurted" or "shouted", in the example. Write a quick function that finds them in the Brown corpus, and reports how many sentences in 1000 have them. (2)

Question 8

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 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