

START OF QUIZ

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Question 1

Topic: Lecture 1

Source: Lecture 1

In class, we talked about how `.isdigit()` is insufficient for determining whether we can convert a string to a float. Write a short function `"isfloat"` that determines whether a provided string is a valid floating point number. (2)

Question 2

Topic: Lecture 4

Source: Lecture 4

How would we sort a dictionary alphabetically by the reverse of its keys (assuming the keys are strings)? Write a short piece of code, and briefly explain your logic. (1)

Question 3

Topic: Lecture 1

Source: Lecture 1

How would you quickly identify the words in a sentence? (1)

Question 4

Topic: Lecture 2

Source: Lecture 2

If we have a new corpus, how might we automatically determine (without ML): A. The language it's written in. B. Whether it is annotated C. If it is multilingual D. genre? Briefly explain your reasoning. (2)

Question 5

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 6

Topic: Lecture 3

Source: Lecture 3

What properties of dictionaries make them an efficient choice for nesting complex lexicons.

(1)

Question 7

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 8

Topic: Lecture 2

Source: Lecture 2

What are 2 benefits of providing a corpus reader with your corpus? (1)

Question 9

Topic: Coding

Source: Coding

Imagine that we have an encrypted data set in a language we don't know, but it is written in the Latin script (ie, the script of English, French, etc.). What are some tests that we could run to try to determine the original language? Please list any assumptions you make. Assume that machine learning is not an option. (3)

END OF QUIZ