# START OF QUIZ
# Student ID:
# 97713317,Song,Shawn

## Question 1

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 2

Topic: Lecture 3
Source: Lecture 3

When would we want to represent linguistic data in a list, instead of a dictionary or a set? (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 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 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 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

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 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