Question 1
You want to open the file "logs.txt" and store it in the file variable for the purpose of reading it. You also want to ensure all resources are released and the file is closed after you read it. What is the correct line of code to do this? 1 / 1 point
with open("r", "logs.txt") as file:
with open("logs.txt", "r") as file:
file = open("logs.txt", "r"):
with file.open("logs.txt", "r"):
Correct
The code with open("logs.txt", "r") as file: is the correct line of code to do this. The with keyword ensures all resources are released while opening and reading the file. This includes ensuring the file is closed after exiting the with statement. Then, calling the open() function with the file "logs.txt" and "r" as arguments indicates to read the "logs.txt" file. Finally, as file specifies to store the file object in the variable file.

Question 2
After you've opened a log file as login_file, which line of code can you use to read the file and store it in a variable called login_attempts? 1 / 1 point
login_attempts = login_file.reader()
login_attempts = login_file.read()
login_file.read() as login_attempts
login_attempts = read(login_file)
Correct
The code login_attempts = login_file.read() reads the log file and stores it in a variable called login_attempts. The .read() method converts files into strings. The code assigns the string it creates to another variable named login_attempts.

Question 3
You just read a log file into a variable called file. The file variable contains a string of multiple IP addresses that are each separated by a whitespace. Which line of code separates each individual IP address and stores it as a list in a variable called ip_addresses? 1 / 1 point
split(file, ip_addresses)
ip_addresses = split(file)
ip_addresses.split(file)
ip_addresses = file.split()
Correct
The code ip_addresses = file.split() separates the individual IP addresses in the file variable and then stores this as a list in a variable called ip_addresses. The .split() method converts a string into a list. It separates the string based on a character passed into the function as an argument. If a character is not passed in, it will separate the string whenever it encounters a whitespace.

Question 4

You need to check for unusual login activity. Specifically, you need to check a list of login timestamps to determine if any of the login times occurred at unusual hours. If you want to automate this through Python, what would be part of your code? Select two answers. 1 / 1 point

An if statement that checks if the login timestamp occurred at unusual hours

Correct

The code should include a for loop that iterates through the list of timestamps and an if statement that checks if the login timestamp occurred at unusual hours.

An if statement that checks if a specific user has multiple login timestamps during unusual hours

A counter variable that keeps track of the number of failed login attempts

A for loop that iterates through the list of timestamps

Correct

The code should include a for loop that iterates through the list of timestamps and an if statement that checks if the login timestamp occurred at unusual hours.