coursera

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Activity: Create another algorithm

Introduction

An important part of cybersecurity is controlling access to restricted content. In this lab, you'll work with a text file containing IP addresses that are allowed to access specific restricted content at your organization.

Parsing a file allows security analysts to read and update the contents. Python helps analysts develop algorithms to automate the process of parsing files and keeping them up-to-date.

You'll develop an algorithm that parses this text file of IP addresses and updates the file by removing that addresses that no longer have access to the restricted content.

Tips for completing this lab

Scenario

In this lab, you're working as a security analyst and you're responsible for developing an algorithm that parses a file containing IP addresses that are allowed to access restricted content and removes addresses that no longer have access.

Task 1

Your eventual goal is to develop an algorithm that parses a series of IP addresses that can access restricted information and removes the addresses that are no longer allowed. Python can automate this process.

You're given a text file called `"allow_list.txt"` that contains a series of IP addresses that are allowed to access restricted information.

There are IP addresses that should no longer have access to this information, and their IP addresses need to be removed from the text file. You're given a variable named `remove_list` that contains the list of IP addresses to be removed.

Display both variables to explore their contents, and run the cell. Be sure to replace each `### YOUR CODE HERE ###` with your own code before running the following cell.