

Algorithm for file updates in Python

Project description

There is a specific file (allow_list.txt) that controls the allowed IP addresses. I created a automated Python script that adds and removes IP addresses on this list, in this file.

Open the file that contains the allow list

```
import_file = "allow_list.txt"
with open(import_file, "r") as file:
```

Read the file contents

```
with open(import_file, "r") as file:
    ip_addresses = file.read()
```

Convert the string into a list

```
with open(import_file, "r") as file:
    ip_addresses = file.read()
    ip_addresses = ip_addresses.split()
```

Iterate through the remove list

```
with open(import_file, "r") as file:
    ip_addresses = file.read()
    ip_addresses = ip_addresses.split()
```

```
    for element in remove_list:
```

Remove IP addresses that are on the remove list

```
with open(import_file, "r") as file:
    ip_addresses = file.read()
    ip_addresses = ip_addresses.split()
```

```
    for element in remove_list:
        if element in ip_addresses:
```

```
ip_addresses.remove(element)
```

Update the file with the revised list of IP addresses

```
with open(import_file, "r") as file:
```

```
    ip_addresses = file.read()
```

```
    ip_addresses = ip_addresses.split()
```

```
    for element in remove_list:
```

```
        if element in ip_addresses:
```

```
            ip_addresses.remove(element)
```

```
    ip_addresses = "\n".join(ip_addresses)
```

```
with open(import_file, "w") as file:
```

```
    file.write(ip_addresses)
```

Summary

This code block should be able to remove inactive IP addresses and add newly needed addresses with the correct arguments.