# Algorithm for file updates in Python

## Project description

I need to create a program that will check an allow list of IP addresses in comparison to a remove list. If any are found on the remove list, they should be removed from the allow list. Once the list is cleaned, it should be written back into the original file.

## Open the file that contains the allow list

with open(importFile,”r”) as file:

**#open the file containing the addresses to copy them into a variable as a string**

## Read the file contents

fileText=file.read()

**#copy the addresses as a string**

## Convert the string into a list

addressList=fileText.split()

**#convert the string into a list to be iterated over**

## Iterate through the address list, remove addresses on remove list

for address in addressList:

if address in removeList:

addressList.remove(address)

**#iterate over the list and remove addresses on the remove list from the original list**

## Update the file with the revised list of IP addresses

addresses = “\n “.join(addressList)

with open(importFile,”w”) as file:

file.write(addresses)

**#convert the list back into a string and write it back into the file**

## Summary

This document outlines the steps to creating a function that will take a file containing IP addresses and remove certain addresses based on a set remove addresses list. Once the addresses are removed accordingly, the updated list is written back into the file.