# Algorithm for file updates in Python

## Project description

I am a security analyst in a health assurance, I got the task that create an algorithm can update a file that contains allowed IPs and compare with IPs removed list. Finally the changes made in the file should be rewritten.

## Open the file that contains the allow list

import\_file = “allow\_file.txt”

with open(import\_file, “r”) as file:

## Read the file contents

import\_file = “allow\_file.txt”

with open(import\_file, “r”) as file:

text = file.read()

## Convert the string into a list

import\_file = “allow\_file.txt”

with open(import\_file, “r”) as file:

ip\_addresses = file.read()

ip\_addresses.split()

## Iterate through the remove list

for element in ip\_addresses:

## Remove IP addresses that are on the remove list

If element == remove\_list:

ip\_addresses.remove(element)

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

Ip\_addresses = “ ”.join(ip\_addresses)

with open(import\_file, “w”) as file:

file.write(ip\_addresses)

## Summary

This algorithm can remove IPs not allowed for external connections, we need provide two arguments import\_file for the IPs allowed log and remove\_list, the algorithm split the IPs contains in the log to list that can be iterate, now can compare with the remove\_list if the strings are equals will be removed from ip\_addresses. Once the job finished, the variable ip\_addresses will rewrite allow\_file.txt

import\_file = “allow\_file.txt”

def update\_file(import\_file, remove\_list):

with open(import\_file, “r”) as file:

ip\_addresses = file.read()

ip\_addresses.split()

for element in ip\_addresses:

If element == remove\_list:

ip\_addresses.remove(element)

ip\_addresses = “ ”.join(ip\_addresses)

with open(import\_file, “w”) as file:

file.write(ip\_addresses)