

```

# Assign `log_file` to a string containing username, date, login time, and IP
↳ address for a series of login attempts

log_file = "eraab 2022-05-10 6:03:41 192.168.152.148 \niuduik 2022-05-09 6:46:
↳ 40 192.168.22.115 \nsmartell 2022-05-09 19:30:32 192.168.190.178 \narutley
↳ 2022-05-12 17:00:59 1923.1689.3.24 \nrjensen 2022-05-11 0:59:26 192.168.213.
↳ 128 \naestrada 2022-05-09 19:28:12 1924.1680.27.57 \nasundara 2022-05-11 18:
↳ 38:07 192.168.96.200 \ndkot 2022-05-12 10:52:00 1921.168.1283.75 \nabernard
↳ 2022-05-12 23:38:46 19245.168.2345.49 \ncjackson 2022-05-12 19:36:42 192.168.
↳ 247.153 \njclark 2022-05-10 10:48:02 192.168.174.117 \nalevitsk 2022-05-08
↳ 12:09:10 192.16874.1390.176 \njrafael 2022-05-10 22:40:01 192.168.148.115
↳ \nyappiah 2022-05-12 10:37:22 192.168.103.10654 \ndaquino 2022-05-08 7:02:35
↳ 192.168.168.144"

# Assign `pattern` to a regular expression that matches with all valid IP
↳ addresses and only those

pattern = "\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}"

# Use `re.findall()` on `pattern` and `log_file` and assign
↳ `valid_ip_addresses` to the output

valid_ip_addresses = re.findall(pattern, log_file)

# Assign `flagged_addresses` to a list of IP addresses that have been
↳ previously flagged for unusual activity

flagged_addresses = ["192.168.190.178", "192.168.96.200", "192.168.174.117",
↳ "192.168.168.144"]

```

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# Iterative statement begins here
# Loop through `valid_ip_addresses` with `address` as the loop variable

for address in valid_ip_addresses:

    # Conditional begins here
    # If `address` belongs to `flagged_addresses`, display "The IP address
↳ _____ has been flagged for further analysis."

    if address in flagged_addresses:
        print("The IP address", address, "has been flagged for further analysis.
↳ ")

    # Otherwise, display "The IP address _____ does not require further
↳ analysis."

    else:
        print("The IP address", address, "does not require further analysis.")

```

```

The IP address 192.168.152.148 does not require further analysis.
The IP address 192.168.22.115 does not require further analysis.
The IP address 192.168.190.178 has been flagged for further analysis.
The IP address 192.168.213.128 does not require further analysis.
The IP address 192.168.96.200 has been flagged for further analysis.
The IP address 192.168.247.153 does not require further analysis.
The IP address 192.168.174.117 has been flagged for further analysis.
The IP address 192.168.148.115 does not require further analysis.
The IP address 192.168.103.106 does not require further analysis.
The IP address 192.168.168.144 has been flagged for further analysis.

```