

REPORT



과목: 컴퓨터 네트워크

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이름: 조민석

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과제 해결 방법

```
1 import subprocess
2 import sys
3 import re
4 import pygeoip
5
6 # sys.argv[1] get value in terminal
7 TR = ['traceroute', sys.argv[1]] # make traceroute command
8 print('[Destination] ', TR[1])
9
10 # universal_newlines=True 'out' convert byte to string
11 proc = subprocess.Popen(TR, stdout=subprocess.PIPE, universal_newlines=True)
12 out, err = proc.communicate()
13
14 p = re.compile('\([^\)]*\)') # get ip in () in 'out'
15 IPList = p.findall(out)
16 gi = pygeoip.GeoIP('GeoLiteCity.dat')
17
18 latitude = list() # make list to save latitude and longitude
19 longitude = []
20
21 for i in range(0, len(IPList)):
22     IPList[i] = IPList[i].replace('(', '') # remove (, ) form IPList
23     IPList[i] = IPList[i].replace(')', '')
24
25     if gi.record_by_addr(IPList[i]) == None: # if no geolocation information in databases
26         print('[IP] ', IPList[i], ' No Geolocation Information')
27         latitude.append('No Geolocation Information')
28         longitude.append('No Geolocation Information')
29
30     else: # have a geolocation info in databases
31         latitude.append(gi.record_by_addr(IPList[i])['latitude'])
32         longitude.append(gi.record_by_addr(IPList[i])['longitude'])
33         print('[IP] ', IPList[i], ' - Lat : ', latitude[i], ' Lon : ', longitude[i])
34
```

1. sys.argv로 터미널로부터 인자 값을 받아온다.
2. pOpen 함수로 subprocess 생성
3. subprocess에서 sys.argv[1]을 인자로 traceroute 실행.
4. traceroute의 결과값 out 중에서 ()안의 ip주소만 가져오기 위해 정규식 사용.
5. record_by_addr함수로 위치 데이터가 나오는 경우와 안나오는 경우로 분할.
6. 위치 정보가 없는 경우 위도, 경도 리스트에 'NO Geolocation Information' 저장 및 출력.
7. 위치 정보 있는 경우 해당 리스트에 저장하고 출력.

결과화면

1. 르완다

1 - 1 Inyarwanda.com

```

root@ubuntu:/home/jo/network# python3 sub.py Inyarwanda.com
[Destination] Inyarwanda.com
[IP] 198.57.188.174 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.56 No Geolocation Information
[IP] 10.101.1.62 No Geolocation Information
[IP] 10.101.1.34 No Geolocation Information
[IP] 10.101.1.46 No Geolocation Information
[IP] 10.101.1.30 No Geolocation Information
[IP] 10.222.10.152 No Geolocation Information
[IP] 10.222.14.101 No Geolocation Information
[IP] 118.221.7.26 - Lat : 35.1028 Lon : 129.0403
[IP] 118.221.7.26 - Lat : 35.1028 Lon : 129.0403
[IP] 58.229.9.10 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.14.158 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.92.229 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 129.250.205.253 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 58.229.92.229 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 129.250.193.181 - Lat : 33.916400000000001 Lon : -118.4041
[IP] 129.250.2.213 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.215 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.6.48 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.4.107 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.123 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.6.46 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.17 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.160 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.17 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.160 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.16 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.198.182 - Lat : 33.916400000000001 Lon : -118.4041
[IP] 129.250.198.182 - Lat : 33.916400000000001 Lon : -118.4041
[IP] 162.144.240.55 - Lat : 40.21809999999999 Lon : -111.6133

```

```

[IP] 162.144.240.43 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 162.144.240.51 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 198.57.188.174 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 162.144.240.43 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 198.57.188.174 - Lat : 40.21809999999999 Lon : -111.6133

```

1 - 2 Umuryango.rw

```

root@ubuntu:/home/jo/network# python3 sub.py Umuryango.rw
[Destination] Umuryango.rw
[IP] 198.57.217.70 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.30 No Geolocation Information
[IP] 10.101.0.34 No Geolocation Information
[IP] 10.222.15.116 No Geolocation Information
[IP] 10.222.14.119 No Geolocation Information
[IP] 10.222.10.182 No Geolocation Information
[IP] 118.221.7.30 - Lat : 35.1028 Lon : 129.0403
[IP] 58.229.92.178 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.14.109 No Geolocation Information
[IP] 129.250.205.253 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.193.181 - Lat : 33.916400000000001 Lon : -118.4041
[IP] 129.250.205.253 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.213 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.205.253 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.213 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.17 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.6.46 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.238 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.123 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.238 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.160 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.198.182 - Lat : 33.916400000000001 Lon : -118.4041
[IP] 129.250.2.160 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.198.182 - Lat : 33.916400000000001 Lon : -118.4041
[IP] 162.144.240.165 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 162.144.240.147 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 162.144.240.165 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 162.144.240.51 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 162.144.240.51 - Lat : 40.21809999999999 Lon : -111.6133
[IP] 198.57.217.70 - Lat : 40.21809999999999 Lon : -111.6133

```

1- 3 Umuseke.rw

```

root@ubuntu:/home/jo/network# python3 sub.py Umuseke.rw
[Destination]    Umuseke.rw
[IP] 198.71.233.19 - Lat : 33.611899999999999 Lon : -111.8906
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.927000000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.927000000000002
[IP] 10.101.0.64 No Geolocation Information
[IP] 10.101.0.58 No Geolocation Information
[IP] 10.101.0.50 No Geolocation Information
[IP] 10.101.0.26 No Geolocation Information
[IP] 10.101.0.48 No Geolocation Information
[IP] 10.222.10.166 No Geolocation Information
[IP] 10.222.10.172 No Geolocation Information
[IP] 175.124.172.254 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 58.229.15.99 - Lat : 37.5112 Lon : 126.974100000000002
[IP] 10.222.14.131 No Geolocation Information
[IP] 58.229.15.99 - Lat : 37.5112 Lon : 126.974100000000002
[IP] 64.86.123.85 - Lat : 38.926600000000001 Lon : -77.3936
[IP] 207.45.206.10 - Lat : 38.926600000000001 Lon : -77.3936
[IP] 64.86.123.85 - Lat : 38.926600000000001 Lon : -77.3936
[IP] 207.45.206.10 - Lat : 38.926600000000001 Lon : -77.3936
[IP] 207.45.206.10 - Lat : 38.926600000000001 Lon : -77.3936
[IP] 4.14.98.38 - Lat : 37.775800000000004 Lon : -122.4128
[IP] 184.168.6.83 - Lat : 33.611899999999999 Lon : -111.8906
[IP] 184.168.6.81 - Lat : 33.611899999999999 Lon : -111.8906

```

1 -4 Irembo.gov.rw

```

root@ubuntu:/home/jo/network# python3 sub.py Irembo.gov.rw
[Destination]    Irembo.gov.rw
[IP] 197.243.112.150 - Lat : -2.0 Lon : 30.0
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.927000000000002
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.927000000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.927000000000002
[IP] 10.101.1.94 No Geolocation Information
[IP] 10.101.1.96 No Geolocation Information
[IP] 10.222.15.124 No Geolocation Information
[IP] 10.101.1.42 No Geolocation Information
[IP] 10.101.1.50 No Geolocation Information
[IP] 10.222.10.192 No Geolocation Information
[IP] 175.124.53.95 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.10.192 No Geolocation Information
[IP] 58.229.8.83 - Lat : 37.5112 Lon : 126.974100000000002
[IP] 10.222.14.127 No Geolocation Information
[IP] 58.229.14.93 - Lat : 37.5112 Lon : 126.974100000000002
[IP] 80.81.193.237 - Lat : 50.115299999999999 Lon : 8.682299999999999
[IP] 58.229.8.83 - Lat : 37.5112 Lon : 126.974100000000002
[IP] 80.81.193.237 - Lat : 50.115299999999999 Lon : 8.682299999999999
[IP] 105.16.9.21 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.9.21 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.13.145 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.9.21 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.8.33 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.8.253 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.11.110 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.12.134 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.8.33 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.22.12 - Lat : -6.8000000000000011 Lon : 39.2833
[IP] 105.16.12.138 - Lat : -20.243899999999996 Lon : 57.479700000000001
[IP] 105.16.23.12 - Lat : -6.8000000000000011 Lon : 39.2833
[IP] 105.16.22.12 - Lat : -6.8000000000000011 Lon : 39.2833
[IP] 105.16.23.12 - Lat : -6.8000000000000011 Lon : 39.2833
[IP] 197.243.126.13 - Lat : -2.0 Lon : 30.0

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```

[IP] 105.21.184.18 - Lat : -6.8000000000000011 Lon : 39.2833
[IP] 197.243.126.30 - Lat : -2.0 Lon : 30.0
[IP] 197.243.126.13 - Lat : -2.0 Lon : 30.0
[IP] 197.243.126.30 - Lat : -2.0 Lon : 30.0
[IP] 197.243.112.130 - Lat : -2.0 Lon : 30.0
[IP] 197.243.112.130 - Lat : -2.0 Lon : 30.0

```

1 - 5 Mifotra.gov.rw

```

root@ubuntu:/home/jo/network# python3 sub.py Mifotra.gov.rw
[Destination] Mifotra.gov.rw
[IP] 197.243.16.110 - Lat : -2.0 Lon : 30.0
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.94 No Geolocation Information
[IP] 10.101.0.96 No Geolocation Information
[IP] 10.222.15.108 No Geolocation Information
[IP] 10.101.0.34 No Geolocation Information
[IP] 10.222.15.134 No Geolocation Information
[IP] 10.222.10.172 No Geolocation Information
[IP] 175.124.53.99 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 175.124.53.101 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 175.124.54.81 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.221.7.121 - Lat : 35.1028 Lon : 129.0403
[IP] 58.229.15.99 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.15.99 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 64.86.123.85 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 64.86.123.93 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 207.45.206.1 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 207.45.206.1 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 80.231.217.88 - Lat : 47.0 Lon : 8.0
[IP] 64.86.79.2 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 80.231.217.2 - Lat : 47.0 Lon : 8.0
[IP] 64.86.79.2 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 216.6.81.28 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 80.231.131.118 - Lat : 47.0 Lon : 8.0
[IP] 80.231.62.26 - Lat : 51.51419999999999 Lon : -0.0930999999999263
[IP] 63.243.216.23 - Lat : 38.92660000000001 Lon : -77.3936
[IP] 80.231.62.26 - Lat : 51.51419999999999 Lon : -0.0930999999999263
[IP] 80.231.76.126 - Lat : 47.0 Lon : 8.0
[IP] 80.231.62.30 - Lat : 51.51419999999999 Lon : -0.0930999999999263
[IP] 197.243.126.13 - Lat : -2.0 Lon : 30.0
[IP] 80.231.76.126 - Lat : 47.0 Lon : 8.0

```

```

[IP] 197.243.126.30 - Lat : -2.0 Lon : 30.0
[IP] 197.243.126.13 - Lat : -2.0 Lon : 30.0
[IP] 197.243.126.30 - Lat : -2.0 Lon : 30.0

```

2. China

2 -1 [Baidu.com](#)

```

root@ubuntu:/home/jo/network# python3 sub.py Baidu.com
[Destination] Baidu.com
[IP] 123.125.115.110 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.54 No Geolocation Information
[IP] 10.101.0.60 No Geolocation Information
[IP] 10.101.0.42 No Geolocation Information
[IP] 10.101.0.50 No Geolocation Information
[IP] 10.222.15.126 No Geolocation Information
[IP] 10.222.10.166 No Geolocation Information
[IP] 10.222.14.111 No Geolocation Information
[IP] 1.255.23.105 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.14.123 No Geolocation Information
[IP] 118.221.7.42 - Lat : 35.1028 Lon : 129.0403
[IP] 10.222.14.123 No Geolocation Information
[IP] 39.115.132.49 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 219.158.113.118 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.6.197 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.113.101 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.6.197 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 124.65.194.178 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 219.158.6.197 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 124.65.194.178 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 123.125.248.98 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 61.148.146.170 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 61.148.142.142 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 123.125.248.126 - Lat : 39.9289 Lon : 116.38830000000002

```

2 -2 [Qq.com](#)


```

root@ubuntu:/home/jo/network# python3 sub.py Qq.com
[Destination] Qq.com
[IP] 111.161.64.48 - Lat : 39.1422 Lon : 117.17669999999998
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.56 No Geolocation Information
[IP] 10.101.0.62 No Geolocation Information
[IP] 10.222.15.136 No Geolocation Information
[IP] 10.222.15.106 No Geolocation Information
[IP] 10.222.15.136 No Geolocation Information
[IP] 10.222.10.160 No Geolocation Information
[IP] 10.222.10.194 No Geolocation Information
[IP] 175.124.53.24 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.14.121 No Geolocation Information
[IP] 118.221.7.54 - Lat : 35.1028 Lon : 129.0403
[IP] 39.115.132.57 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 219.158.38.89 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.134 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.134 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.105 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.50 - Lat : 34.772500000000001 Lon : 113.72660000000002

```

2 - 3 [Tmall.com](#)

```

root@ubuntu:/home/jo/network# python3 sub.py Tmall.com
[Destination] Tmall.com
[IP] 140.205.130.99 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.64 No Geolocation Information
[IP] 10.101.0.58 No Geolocation Information
[IP] 10.101.0.50 No Geolocation Information
[IP] 10.101.0.30 No Geolocation Information
[IP] 10.222.15.106 No Geolocation Information
[IP] 118.221.7.34 - Lat : 35.1028 Lon : 129.0403
[IP] 10.222.10.146 No Geolocation Information
[IP] 10.222.10.192 No Geolocation Information
[IP] 1.255.74.242 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 39.115.132.51 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.14.119 No Geolocation Information
[IP] 39.115.132.51 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 219.158.113.126 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.126 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.105 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.105 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 140.205.50.242 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 42.120.243.109 - Lat : 30.293599999999998 Lon : 120.16140000000001
root@ubuntu:/home/jo/network#

```

2 - 4 [Taobao.com](#)

```

root@ubuntu:/home/jo/network# python3 sub.py Taobao.com
[Destination] Taobao.com
[IP] 140.205.220.96 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.54 No Geolocation Information
[IP] 10.101.0.60 No Geolocation Information
[IP] 10.101.0.42 No Geolocation Information
[IP] 10.101.0.50 No Geolocation Information
[IP] 10.222.15.128 No Geolocation Information
[IP] 211.178.182.209 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.10.192 No Geolocation Information
[IP] 118.221.7.42 - Lat : 35.1028 Lon : 129.0403
[IP] 1.255.26.254 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 39.115.132.53 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 1.255.26.254 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 39.115.132.53 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 219.158.113.126 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 219.158.113.126 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 139.226.225.122 - Lat : 31.045600000000007 Lon : 121.3997
[IP] 219.158.113.105 - Lat : 34.772500000000001 Lon : 113.72660000000002
[IP] 139.226.225.122 - Lat : 31.045600000000007 Lon : 121.3997
[IP] 139.226.213.238 - Lat : 31.045600000000007 Lon : 121.3997
[IP] 42.120.241.26 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 140.205.50.250 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 140.205.50.226 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 42.120.241.38 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 42.120.243.109 - Lat : 30.293599999999998 Lon : 120.16140000000001
[IP] 42.120.243.113 - Lat : 30.293599999999998 Lon : 120.16140000000001

```

2 - 5 [Sohu.com](#)

```

root@ubuntu:/home/jo/network# python3 sub.py Sohu.com
[Destination] Sohu.com
[IP] 123.125.116.28 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.64 No Geolocation Information
[IP] 10.101.1.58 No Geolocation Information
[IP] 10.101.1.46 No Geolocation Information
[IP] 10.101.1.26 No Geolocation Information
[IP] 10.101.1.52 No Geolocation Information
[IP] 10.222.10.180 No Geolocation Information
[IP] 1.255.26.90 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.14.137 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.14.137 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 39.115.132.55 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 219.158.113.122 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.113.122 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.113.101 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.113.122 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.113.101 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.6.161 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.113.101 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 219.158.6.161 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 202.96.12.118 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 219.158.6.161 - Lat : 34.77250000000001 Lon : 113.72660000000002
[IP] 202.96.12.118 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 61.148.142.142 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 202.96.12.118 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 124.65.58.194 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 61.51.113.246 - Lat : 39.9289 Lon : 116.38830000000002
[IP] 202.106.48.10 - Lat : 39.9289 Lon : 116.38830000000002

```

3. Japan

3 - 1 Rakuten.co.jp

```

root@ubuntu:/home/jo/network# python3 sub.py Rakuten.co.jp
[Destination] Rakuten.co.jp
[IP] 133.237.61.176 - Lat : 35.69 Lon : 139.69
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.96 No Geolocation Information
[IP] 10.101.1.94 No Geolocation Information
[IP] 10.101.1.32 No Geolocation Information
[IP] 10.222.15.132 No Geolocation Information
[IP] 10.101.1.36 No Geolocation Information
[IP] 118.221.7.58 - Lat : 35.1028 Lon : 129.0403
[IP] 10.222.10.180 No Geolocation Information
[IP] 211.178.182.207 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.14.119 No Geolocation Information
[IP] 10.222.6.43 No Geolocation Information
[IP] 211.178.182.207 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.6.43 No Geolocation Information
[IP] 58.229.92.134 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.6.7 No Geolocation Information
[IP] 58.229.92.134 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 129.250.7.30 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.8.153 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 27.85.128.173 - Lat : 35.685 Lon : 139.7514
[IP] 27.85.136.77 - Lat : 35.685 Lon : 139.7514
[IP] 129.250.3.28 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.78 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 27.85.227.110 - Lat : 35.685 Lon : 139.7514
[IP] 27.85.128.34 - Lat : 35.685 Lon : 139.7514
[IP] 106.185.22.34 - Lat : 35.685 Lon : 139.7514

```

3 - 2 Nicovideo.jp

```

root@ubuntu:/home/jo/network# python3 sub.py Nicovideo.jp
[Destination]    Nicovideo.jp
[IP] 202.248.110.184 - Lat : 34.68530000000001 Lon : 135.83280000000002
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.94 No Geolocation Information
[IP] 10.101.0.96 No Geolocation Information
[IP] 10.101.0.28 No Geolocation Information
[IP] 10.101.0.32 No Geolocation Information
[IP] 10.222.10.144 No Geolocation Information
[IP] 10.222.10.192 No Geolocation Information
[IP] 1.255.26.250 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.6.7 No Geolocation Information
[IP] 1.255.26.250 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 118.217.96.222 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.6.49 No Geolocation Information
[IP] 129.250.8.153 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.8.21 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.210 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.22 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.3.106 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 117.103.176.106 - Lat : 35.685 Lon : 139.7514
[IP] 117.103.176.102 - Lat : 35.685 Lon : 139.7514
[IP] 120.88.53.158 - Lat : 35.685 Lon : 139.7514
[IP] 133.160.139.18 - Lat : 35.69 Lon : 139.69
[IP] 133.160.183.33 - Lat : 35.69 Lon : 139.69
[IP] 133.160.139.18 - Lat : 35.69 Lon : 139.69
[IP] 133.160.139.18 - Lat : 35.69 Lon : 139.69

```

3 - 3 [Fc2.com](#)

```

root@ubuntu:/home/jo/network# python3 sub.py Fc2.com
[Destination]    Fc2.com
[IP] 52.33.182.156 - Lat : 45.86959999999999 Lon : -119.688
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.56 No Geolocation Information
[IP] 10.101.1.62 No Geolocation Information
[IP] 10.101.1.32 No Geolocation Information
[IP] 10.101.1.44 No Geolocation Information
[IP] 10.222.15.110 No Geolocation Information
[IP] 10.222.14.99 No Geolocation Information
[IP] 10.222.10.150 No Geolocation Information
[IP] 10.222.10.192 No Geolocation Information
[IP] 211.178.182.209 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.14.127 No Geolocation Information
[IP] 58.229.92.22 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.92.254 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.92.22 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 198.32.176.36 - Lat : 29.7431 Lon : -95.4446
[IP] 58.229.92.22 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 198.32.176.36 - Lat : 29.7431 Lon : -95.4446
[IP] 198.32.176.36 - Lat : 29.7431 Lon : -95.4446
[IP] 54.240.243.28 - Lat : 47.610299999999995 Lon : -122.3341
[IP] 54.240.243.61 - Lat : 47.610299999999995 Lon : -122.3341
[IP] 54.240.243.148 - Lat : 47.610299999999995 Lon : -122.3341
[IP] 54.240.243.8 - Lat : 47.610299999999995 Lon : -122.3341
[IP] 54.240.243.101 - Lat : 47.610299999999995 Lon : -122.3341
[IP] 205.251.232.118 - Lat : 45.86959999999999 Lon : -119.688
[IP] 54.239.43.51 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.40 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.39 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.76 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.13.40 - Lat : 47.6344 Lon : -122.34219999999999

```

```

[IP] 52.93.13.4 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.218 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.74 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.108 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.178 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.207 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.240.19 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.12.111 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.13.17 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.240.37 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 205.251.232.165 - Lat : 45.86959999999999 Lon : -119.688
[IP] 52.93.12.93 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.33.182.156 - Lat : 45.86959999999999 Lon : -119.688

```

3 - 4 [Ameblo.jp](#)


```

root@ubuntu:/home/jo/network# python3 sub.py Ameblo.jp
[Destination]    Ameblo.jp
[IP]    104.76.76.22    -    Lat : 42.362599999999986    Lon : -71.0843
[IP]    192.168.0.1    No Geolocation Information
[IP]    118.223.38.1    -    Lat : 37.5985    Lon : 126.97829999999999
[IP]    118.217.148.153    -    Lat : 36.9871    Lon : 126.927000000000002
[IP]    118.217.149.149    -    Lat : 36.9871    Lon : 126.927000000000002
[IP]    10.101.1.62    No Geolocation Information
[IP]    10.101.1.56    No Geolocation Information
[IP]    10.101.1.50    No Geolocation Information
[IP]    10.101.1.44    No Geolocation Information
[IP]    10.222.15.132    No Geolocation Information
[IP]    10.222.10.152    No Geolocation Information
[IP]    10.222.10.198    No Geolocation Information
[IP]    211.178.182.178    -    Lat : 37.5985    Lon : 126.97829999999999
[IP]    58.229.12.170    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    218.145.32.57    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    112.174.63.58    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    112.174.63.206    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    112.174.110.22    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    112.189.24.138    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    112.188.243.138    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    112.188.243.142    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    211.216.3.134    -    Lat : 37.656399999999999    Lon : 126.834999999999998
[IP]    211.216.3.130    -    Lat : 37.656399999999999    Lon : 126.834999999999998

```

3 - 5 [Livedoor.jp](#)

```

root@ubuntu:/home/jo/network# python3 sub.py Livedoor.jp
[Destination]    Livedoor.jp
[IP]    203.104.153.16    -    Lat : 35.685    Lon : 139.7514
[IP]    192.168.0.1    No Geolocation Information
[IP]    118.223.38.1    -    Lat : 37.5985    Lon : 126.97829999999999
[IP]    118.217.148.153    -    Lat : 36.9871    Lon : 126.927000000000002
[IP]    10.101.1.96    No Geolocation Information
[IP]    10.101.1.94    No Geolocation Information
[IP]    10.101.1.96    No Geolocation Information
[IP]    10.222.15.112    No Geolocation Information
[IP]    10.222.15.122    No Geolocation Information
[IP]    10.222.15.110    No Geolocation Information
[IP]    10.222.10.160    No Geolocation Information
[IP]    118.221.7.50    -    Lat : 35.1028    Lon : 129.0403
[IP]    10.222.14.123    No Geolocation Information
[IP]    10.222.6.43    No Geolocation Information
[IP]    58.229.92.134    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    58.229.92.134    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    27.85.128.165    -    Lat : 35.685    Lon : 139.7514
[IP]    58.229.92.134    -    Lat : 37.5112    Lon : 126.974100000000002
[IP]    27.85.136.117    -    Lat : 35.685    Lon : 139.7514
[IP]    27.85.227.126    -    Lat : 35.685    Lon : 139.7514
[IP]    27.85.136.77    -    Lat : 35.685    Lon : 139.7514
[IP]    129.250.3.33    -    Lat : 39.6237000000000014    Lon : -104.8738
[IP]    27.85.227.238    -    Lat : 35.685    Lon : 139.7514
[IP]    27.85.227.126    -    Lat : 35.685    Lon : 139.7514
[IP]    129.250.6.189    -    Lat : 39.6237000000000014    Lon : -104.8738
[IP]    27.85.227.238    -    Lat : 35.685    Lon : 139.7514
[IP]    27.85.227.242    -    Lat : 35.685    Lon : 139.7514
[IP]    61.213.169.242    -    Lat : 35.69    Lon : 139.69
[IP]    111.87.9.238    -    Lat : 35.4478    Lon : 139.642499999999998
[IP]    125.29.22.174    -    Lat : 35.685    Lon : 139.7514
[IP]    111.87.9.238    -    Lat : 35.4478    Lon : 139.642499999999998

```

4. Taiwan

4 - 1 [Ebc.net.tw](#)

```

root@ubuntu:/home/jo/network# python3 sub.py Ebc.net.tw
[Destination] Ebc.net.tw
[IP] 122.147.226.250 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.60 No Geolocation Information
[IP] 10.101.1.54 No Geolocation Information
[IP] 10.101.1.48 No Geolocation Information
[IP] 10.222.15.130 No Geolocation Information
[IP] 10.222.15.118 No Geolocation Information
[IP] 10.222.10.188 No Geolocation Information
[IP] 118.221.7.26 - Lat : 35.1028 Lon : 129.0403
[IP] 10.222.14.107 No Geolocation Information
[IP] 175.124.54.87 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.14.107 No Geolocation Information
[IP] 10.222.6.11 No Geolocation Information
[IP] 129.250.8.21 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 10.222.6.11 No Geolocation Information
[IP] 129.250.8.177 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.32 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.155 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.32 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.4.182 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.32 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.41 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.4.182 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.83 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 61.58.33.214 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 129.250.2.83 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 192.72.155.205 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.201 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.201 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.146 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.57.218 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.146 - Lat : 25.047799999999995 Lon : 121.53179999999998

```

```

[IP] 139.175.57.218 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.146 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.56.142 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 220.228.20.146 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.107.130 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.107.186 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 220.228.20.146 - Lat : 25.047799999999995 Lon : 121.53179999999998
root@ubuntu:/home/jo/network#

```

4 – 2 Ltn.com.tw

```

root@ubuntu:/home/jo/network# python3 sub.py Ltn.com.tw
[Destination] Ltn.com.tw
[IP] 218.211.33.75 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.60 No Geolocation Information
[IP] 10.101.0.54 No Geolocation Information
[IP] 10.101.0.32 No Geolocation Information
[IP] 10.222.15.126 No Geolocation Information
[IP] 10.101.0.36 No Geolocation Information
[IP] 1.255.26.90 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.10.198 No Geolocation Information
[IP] 1.255.26.246 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.6.7 No Geolocation Information
[IP] 10.222.6.49 No Geolocation Information
[IP] 1.255.26.246 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.6.41 No Geolocation Information
[IP] 129.250.8.177 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 10.222.6.41 No Geolocation Information
[IP] 129.250.7.32 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.8.21 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.155 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.4.182 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.15 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.2.155 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.15 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.41 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 129.250.7.41 - Lat : 39.623700000000014 Lon : -104.8738
[IP] 61.58.33.54 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.155.205 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.155.205 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.57.218 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.201 - Lat : 25.047799999999995 Lon : 121.53179999999998

```

```

[IP] 139.175.57.186 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.107.190 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.56.142 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.107.186 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.107.190 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 220.228.20.146 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 218.211.33.75 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 220.228.20.154 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 218.211.33.75 - Lat : 25.047799999999995 Lon : 121.53179999999998

```

4 – 3 Momoshop.com.tw

```

root@ubuntu:/home/jo/network# python3 sub.py Momoshop.com.tw
[Destination] Momoshop.com.tw
[IP] 175.99.128.188 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.60 No Geolocation Information
[IP] 10.101.0.34 No Geolocation Information
[IP] 10.222.15.106 No Geolocation Information
[IP] 10.101.0.36 No Geolocation Information
[IP] 10.222.10.150 No Geolocation Information
[IP] 10.222.10.170 No Geolocation Information
[IP] 10.222.14.99 No Geolocation Information
[IP] 39.115.132.49 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 58.229.9.2 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.6.92 No Geolocation Information
[IP] 63.216.140.25 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 39.115.132.49 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 39.115.132.55 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 63.216.140.25 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 63.216.140.25 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 63.222.40.6 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 63.222.40.202 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 63.223.9.94 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 63.222.40.6 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 63.223.9.118 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 60.199.16.202 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 63.222.40.210 - Lat : 38.984100000000001 Lon : -77.3827
[IP] 60.199.16.202 - Lat : 25.047799999999995 Lon : 121.53179999999998

```

4 – 4 Tvbs.com.tw

```

root@ubuntu:/home/jo/network# python3 sub.py Tvbs.com.tw
[Destination] Tvbs.com.tw
[IP] 54.230.181.179 - Lat : 47.542 Lon : -122.3123
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.96 No Geolocation Information
[IP] 10.101.0.94 No Geolocation Information
[IP] 10.101.0.96 No Geolocation Information
[IP] 10.101.0.36 No Geolocation Information
[IP] 10.222.15.128 No Geolocation Information
[IP] 10.222.15.126 No Geolocation Information
[IP] 10.222.10.160 No Geolocation Information
[IP] 10.222.10.194 No Geolocation Information
[IP] 10.222.14.93 No Geolocation Information
[IP] 211.210.54.34 - Lat : 37.453599999999994 Lon : 126.73169999999999
[IP] 52.93.248.71 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.248.12 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.248.52 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 54.239.42.44 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.248.81 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 52.93.248.93 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 54.239.41.11 - Lat : 47.6344 Lon : -122.34219999999999
[IP] 54.239.41.13 - Lat : 47.6344 Lon : -122.34219999999999

```

4 – 5 104.com.tw

```

root@ubuntu:/home/jo/network# python3 sub.py 104.com.tw
[Destination] 104.com.tw
[IP] 122.147.53.67 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.62 No Geolocation Information
[IP] 10.101.1.56 No Geolocation Information
[IP] 10.101.1.46 No Geolocation Information
[IP] 10.222.15.110 No Geolocation Information
[IP] 10.101.1.26 No Geolocation Information
[IP] 58.229.9.10 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.9.2 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 58.229.9.10 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.6.9 No Geolocation Information
[IP] 10.222.6.43 No Geolocation Information
[IP] 10.222.6.15 No Geolocation Information
[IP] 129.250.8.153 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 118.217.96.222 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 129.250.7.32 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 129.250.2.155 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 129.250.8.153 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 129.250.4.182 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 129.250.7.15 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 129.250.2.83 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 129.250.4.182 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 129.250.2.83 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 61.58.33.78 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 129.250.2.83 - Lat : 39.6237000000000014 Lon : -104.8738
[IP] 61.58.33.78 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 61.58.33.54 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.201 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.56.142 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.58.201 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 192.72.155.205 - Lat : 25.047799999999995 Lon : 121.53179999999998
[IP] 139.175.56.142 - Lat : 25.047799999999995 Lon : 121.53179999999998

```

```
[IP] 139.175.57.186 - Lat : 25.04779999999995 Lon : 121.53179999999998
[IP] 192.72.154.38 - Lat : 25.04779999999995 Lon : 121.53179999999998
[IP] 220.228.172.30 - Lat : 25.04779999999995 Lon : 121.53179999999998
[IP] 192.72.154.38 - Lat : 25.04779999999995 Lon : 121.53179999999998
[IP] 220.228.172.30 - Lat : 25.04779999999995 Lon : 121.53179999999998
```

5. South Korea

5 – 1 Gmarket.co.kr

```
root@ubuntu:/home/jo/network# python3 sub.py Gmarket.co.kr
[Destination] Gmarket.co.kr
[IP] 117.52.47.78 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.96 No Geolocation Information
[IP] 10.101.0.94 No Geolocation Information
[IP] 10.101.0.96 No Geolocation Information
[IP] 10.101.0.48 No Geolocation Information
[IP] 10.101.0.52 No Geolocation Information
[IP] 10.222.15.128 No Geolocation Information
[IP] 175.124.170.254 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 10.222.10.174 No Geolocation Information
[IP] 118.221.4.146 - Lat : 35.1028 Lon : 129.0403
[IP] 211.44.125.62 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 118.130.13.41 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.208.146.34 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 203.233.17.14 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.208.146.34 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 182.162.152.10 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 61.111.34.174 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 117.52.0.254 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 182.162.152.10 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 110.45.129.66 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 222.231.30.166 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 222.231.30.174 - Lat : 37.5112 Lon : 126.97410000000002
```

5 – 2 Inven.co.kr

```
root@ubuntu:/home/jo/network# python3 sub.py Inven.co.kr
[Destination] Inven.co.kr
[IP] 182.162.110.129 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.54 No Geolocation Information
[IP] 10.101.0.26 No Geolocation Information
[IP] 10.101.0.46 No Geolocation Information
[IP] 10.222.15.108 No Geolocation Information
[IP] 10.222.10.158 No Geolocation Information
[IP] 118.221.4.74 - Lat : 35.1028 Lon : 129.0403
[IP] 10.222.10.194 No Geolocation Information
[IP] 58.229.10.18 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 210.107.53.213 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 210.107.53.213 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.213.148.9 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 210.107.53.213 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.213.148.9 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.213.148.1 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.213.147.134 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 203.233.117.186 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.213.147.134 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.213.150.6 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 61.111.0.154 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 182.162.65.38 - Lat : 37.5112 Lon : 126.97410000000002
```

5 – 3 Auction.co.kr


```

root@ubuntu:/home/jo/network# python3 sub.py Auction.co.kr
[Destination] Auction.co.kr
[IP] 183.111.131.60 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.0.94 No Geolocation Information
[IP] 10.222.15.134 No Geolocation Information
[IP] 10.101.0.28 No Geolocation Information
[IP] 10.222.15.116 No Geolocation Information
[IP] 10.222.10.172 No Geolocation Information
[IP] 58.229.12.14 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 118.221.4.158 - Lat : 35.1028 Lon : 129.0403
[IP] 128.134.10.29 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 1.255.74.185 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.255.23.118 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 128.134.10.29 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 112.174.62.214 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 112.188.241.154 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 112.188.241.154 - Lat : 37.5112 Lon : 126.97410000000002

```

5 - 4 11st.co.kr

```

root@ubuntu:/home/jo/network# python3 sub.py 11st.co.kr
[Destination] 11st.co.kr
[IP] 113.217.247.100 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.54 No Geolocation Information
[IP] 10.101.1.60 No Geolocation Information
[IP] 10.101.1.48 No Geolocation Information
[IP] 10.222.15.122 No Geolocation Information
[IP] 10.101.1.52 No Geolocation Information
[IP] 10.222.10.174 No Geolocation Information
[IP] 10.222.10.164 No Geolocation Information
[IP] 175.124.53.125 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 1.255.23.170 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.255.25.30 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.255.23.170 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 172.27.251.126 No Geolocation Information
[IP] 172.27.252.102 No Geolocation Information
[IP] 1.254.241.63 - Lat : 35.338600000000014 Lon : 129.03859999999997
[IP] 172.27.251.114 No Geolocation Information
[IP] 172.27.251.126 No Geolocation Information
[IP] 172.27.251.122 No Geolocation Information
[IP] 113.217.238.26 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 113.217.238.18 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 113.217.238.154 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 113.217.255.33 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 172.18.190.206 No Geolocation Information
[IP] 172.18.190.206 No Geolocation Information
[IP] 113.217.247.100 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 113.217.247.100 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 113.217.247.6 - Lat : 37.5112 Lon : 126.97410000000002

```

5 - 5 Nexon.com

```

root@ubuntu:/home/jo/network# python3 sub.py Nexon.com
[Destination] Nexon.com
[IP] 183.110.0.23 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 192.168.0.1 No Geolocation Information
[IP] 118.223.38.1 - Lat : 37.5985 Lon : 126.97829999999999
[IP] 118.217.149.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.153 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 118.217.148.149 - Lat : 36.9871 Lon : 126.92700000000002
[IP] 10.101.1.56 No Geolocation Information
[IP] 10.101.1.62 No Geolocation Information
[IP] 10.101.1.50 No Geolocation Information
[IP] 10.101.1.48 No Geolocation Information
[IP] 10.101.1.46 No Geolocation Information
[IP] 1.255.74.189 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 10.222.10.144 No Geolocation Information
[IP] 10.222.10.188 No Geolocation Information
[IP] 211.44.125.50 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 1.255.74.187 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 175.126.127.126 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 211.44.125.50 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 112.188.246.42 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 112.188.244.42 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 112.174.60.2 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 112.188.244.42 - Lat : 37.5112 Lon : 126.97410000000002
[IP] 112.188.246.42 - Lat : 37.5112 Lon : 126.97410000000002

```

traceroute에서 '* * *'이 뜨는 이유

1. 보안상의 이유로 패킷을 받은 해당 라우터에서 막아 놓은 경우.
2. 해당 라우터의 응답 시간이 지난 경우.