2023

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GreppingForGold:

```
Howdy howdy!   Mind helping me with this homew- er, challenge?
Someone ran nmap -oG on a big network and produced this bigscan.gnmap file.
The quizme program has the questions and hints and, incidentally,
has NOTHING to do with an Elf University assignment. Thanks!

Answer all the questions in the quizme executable:
- What port does 34.76.1.22 have open?
- What port does 34.77.207.226 have open?
- How many hosts appear "Up" in the scan?
- How many hosts have a web port open?  (Let's just use TCP ports 80, 443, and 8080)
- How many hosts with status Up have no (detected) open TCP ports?
- What's the greatest number of TCP ports any one host has open?

Check out bigscan.gnmap and type quizme to answer each question.
```

1.)
Prompt: What port does 34.76.1.22 have open ?

Command: cat bigscan.gnmap | grep "34.76.1.22"
I used cat to print the gnmap to terminal piped it to grep to search for the ip address

```
elf@4f9fcf35bf3e:~$ cat bigscan.gnmap | grep "34.76.1.22"
Host: 34.76.1.22 ()      Status: Up
Host: 34.76.1.22 ()      Ports: 62078/open/tcp//iphone-sync///      Ignored State: closed (999)
```

Answer: 62078

```
elf@4f9fcf35bf3e:~$ quizme
What port does 34.76.1.22 have open?
Please enter your answer or press h for a hint: 62078
That's correct!
```

2.)
Prompt: What port does 34.77.207.226 have open ?

Command: cat bigscan.gnmap | grep "34.77.207.226"

I used cat to print the gnmap to terminal piped it to grep to search for the ip address

Answer: 8080

```
elf@339be800a976:~$ quizme
What port does 34.77.207.226 have open?
Please enter your answer or press h for a hint: 8080
That's correct!
```

3.)
Prompt: How many hosts does Up appear in the scan?

Command: cat bigscan.gnmap | grep Up | wc -l

I used cat to print the gnmap to terminal piped it to grep to search for Up then I piped it to wc -l
to count lines

```
elf@e3cfb6afe3ba:~$ cat bigscan.gnmap | grep Up | wc -l
26054
elf@e3cfb6afe3ba:~$ quizme_
```

Answer: 26054

```
How many hosts appear "Up" in the scan?
Please enter your answer or press h for a hint: 26054
That's correct!
```

4.)
Prompt: How many hosts does a web port open?

Command: cat bigscan.gnmap | grep -E "(80|443|8080\/open" | cut -d ' ' -f 2 | sort | uniq -c | wc -l

```
elf@38c2c5094796:~$ cat bigscan.gnmap | grep -E "(80|443|8080)\/open" | cut -d ' ' -f 2 | sort
| uniq -c | wc -l
14372
```

I used cat to print the gnmap to terminal piped it to grep -E search for the
Expression"(80|443|8080\/open" I piped it to wc -l to count lines
Answer: 14372

```
How many hosts have a web port open?  (Let's just use TCP ports 80, 443, and 8080)
Please enter your answer or press h for a hint: 14372
That's correct!
```
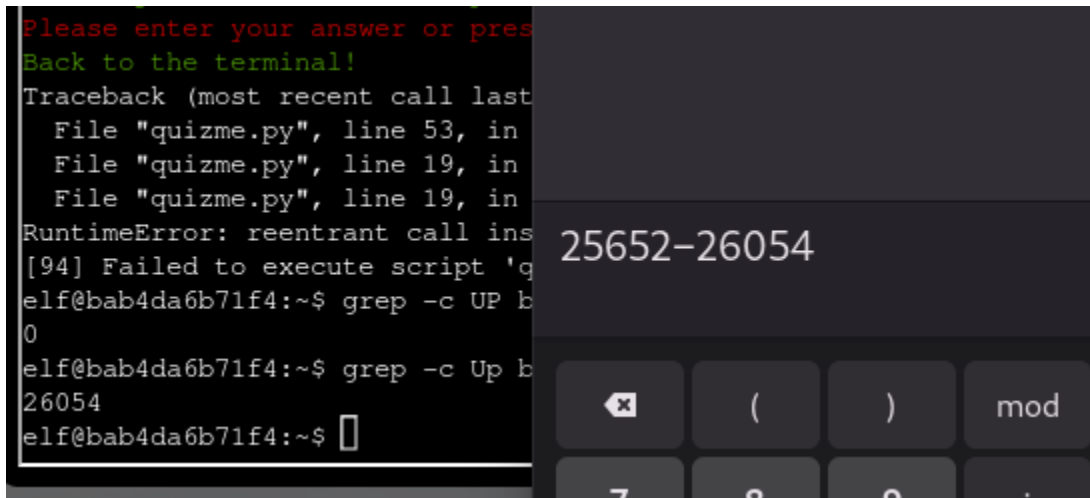
5.)
Prompt: How many hosts with status Up have no (detected) open TCP ports?

Command: grep -c tcp bigscan.gnmap

```
^[[A^C
elf@bab4da6b71f4:~$ grep -c tcp bigscan.gnmap
25652
```

I used grep -c to count tcp in bigscan.gnmap to get 25652 then I did it for open and got 26054 and subtracted them from each other to get 402

```
Please enter your answer or pres
Back to the terminal!
Traceback (most recent call last
  File "quizme.py", line 53, in
  File "quizme.py", line 19, in
  File "quizme.py", line 19, in
RuntimeError: reentrant call ins     25652-26054
[94] Failed to execute script 'q
elf@bab4da6b71f4:~$ grep -c UP b
0
elf@bab4da6b71f4:~$ grep -c Up b
26054
elf@bab4da6b71f4:~$
```

Answer: 402

```
elf@bab4da6b71f4:~$ quizme
How many hosts with status Up have no (detected) open TCP ports?
Please enter your answer or press h for a hint: 402
That's correct!
```

6.)
Prompt: Who's the greatest number of TCP ports any one host has open?

Command: cat bigscan.gnmap | grep -no "open" | sort |uniq -c | sort

```
    12 39743:open
    12 43460:open
lf@bab4da6b71f4:~$ cat bigscan.gnmap | grep -no "open" | sort | uniq -c | sort
```

Cat to send contents of bigscan.gnmap to terminal piped it to grep -no open to print line numbers and only matching open which I piped to sort then uniq -c to show counts and sorted it again.
Answer: 12

```
What's the greatest number of TCP ports any one host has open?
Please enter your answer or press h for a hint: 12
That's correct!
```

```
elf@bab4da6b7lf4:~$ quizme
How many hosts with status Up have no (detected) open TCP ports?
Please enter your answer or press h for a hint: 402
That's correct!
```