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ECE5480 Fall 2018

Project3

Command Prompt

```
C:\Users\HYUK\Documents\ece5480\p3>python3 task_1.py
```

```
Enter Base Directory: C:\Users\HYUK\Documents\ece5480\p3
```

```
C:\Users\HYUK\Documents\ece5480\p3\2018_09_30_ECE_5480_fall_2018_project_3.pdf
C:\Users\HYUK\Documents\ece5480\p3\dirs.txt
C:\Users\HYUK\Documents\ece5480\p3\dns_log_file.txt
C:\Users\HYUK\Documents\ece5480\p3\dns_log_file.zip
C:\Users\HYUK\Documents\ece5480\p3\files.txt
C:\Users\HYUK\Documents\ece5480\p3\filtered_dns.txt
C:\Users\HYUK\Documents\ece5480\p3\task2.py
C:\Users\HYUK\Documents\ece5480\p3\task_1.py
C:\Users\HYUK\Documents\ece5480\p3\task_1_incomplete.py
C:\Users\HYUK\Documents\ece5480\p3\New Folder
C:\Users\HYUK\Documents\ece5480\p3\New Folder (2)
C:\Users\HYUK\Documents\ece5480\p3\New Folder (3)
```

```
C:\Users\HYUK\Documents\ece5480\p3>python3 task2.py
```

```
> Earliest Record Time and Date: 07-Nov-2009 20:11:01.863
> Last Record Time and Date: 11-Nov-2011 16:06:00.783
> Total Number of Records: 59167
> Total Unique Ip: 33
> Most Common IP: 7.204.241.161 , Count: 19675
> Total Number of Domain: 4003
> Most Common Domain: jabber.usma.bluenet , Count: 12000
> Most Unusual Domain: "0.3092008.9020503.14b5.15da.3e9b.10.0.a1441a452aac1bc88fdd87754e88b7f9.avqs.mcafee.com" or "."
```

```
C:\Users\HYUK\Documents\ece5480\p3>_
```

Answers for Task 2

1. Earliest record time and date:

>07-Nov-2009 20:11:01.863

>The dataset is already ordered by time, this is the first instance of data.

2. Last record time and date:

>11-Nov-2011 16:06:00.783

>The last instance.

3. Total number of records

>59167

>All instances excluding nonstandard data.

4. Number of unique client IP addresses (ignore port #)

>33

5. Number of unique query domains (ignore query IP addresses)

>4003

6. Most common client address and number of occurrences

>Most Common IP: 7.204.241.161, Count: 19675

7. Most common query domain and number of occurrences 8. Unusual query domains

>jabber.usma.bluenet, Count: 12000

8. Unusual query domains

>Most Unusual Domain:

"0.3092008.9020503.14b5.15da.3e9b.10.0.a1441a452aac1bc88fdd87754e88b7f9.avqs.mcafee.com"

Or "."

>I choose the longest query domain and the shortest query domain