

# The Console

## Task 1

---

1: Enter the command or sequence of commands that returned the required logs:

```
Unset  
grep ^233.201. ~/logs/2019/12/*.txt
```

2: Show the results of your search:

```
Unset  
/home/morty/logs/2019/12/apache_2019-12-18.txt:233.201.188.154 -  
- [18/12/2019:21:46:01 +0000] "DELETE /events HTTP/1.1" 403 3971  
  
/home/morty/logs/2019/12/apache_2019-12-21.txt:233.201.182.9 - -  
[21/12/2019:21:56:20 +0000] "PATCH /users HTTP/1.1" 400 4118
```

## Task 2

---

1: Enter the commands you used to create the `/bug1` and `/events` directories:

```
Unset  
mkdir bug1  
  
cd bug1  
  
mkdir events
```

2: Enter the commands you used to select logs for the specified periods. These are the requests that you use to select logs for the `main.txt` file:

Unset

```
grep ' [45]00 ' ~/logs/2019/12/apache_2019-12-30.txt >
bug1/main.txt
```

3: Enter the commands that you used to put logs from the `main.txt` file into the `400.txt` and `500.txt` files:

Unset

```
grep ' 400 ' ~/logs/bug1/main.txt > ~/logs/bug1/events/400.txt

grep ' 500 ' ~/logs/bug1/main.txt > ~/logs/bug1/events/500.txt
```

4: Show the results of your work, i.e. the contents of `400.txt` and `500.txt`. Since there will be many lines of text, provide a selection of the output, as below:

A: The line count of `400.txt`. Use `wc ~/bug1/events/400.txt` to get the answer.

Unset

```
172 1720 13860 /home/morty/logs/bug1/events/400.txt
```

B: The first 3 lines from `400.txt`. Use `head -3 ~/bug1/events/400.txt` to get the answer.

Unset

```
80.57.170.51 - - [30/12/2019:21:35:12 +0000] "DELETE /users
HTTP/1.1" 400 3623
```

```
204.235.176.118 - - [30/12/2019:21:35:13 +0000] "POST /users
HTTP/1.1" 400 4704
```

```
82.95.203.67 - - [30/12/2019:21:35:19 +0000] "DELETE /lists
HTTP/1.1" 400 3737
```

C: The last 3 lines from 400.txt. Use `tail -3 ~/bug1/events/400.txt` to get the answer.

Unset

```
203.106.235.105 - - [30/12/2019:22:12:38 +0000] "DELETE /events
HTTP/1.1" 400 4158
```

```
18.211.28.150 - - [30/12/2019:22:12:40 +0000] "DELETE /collectors
HTTP/1.1" 400 2212
```

```
229.16.123.45 - - [30/12/2019:22:12:54 +0000] "GET /auth
HTTP/1.1" 400 2397
```

D: The line count of 500.txt. Use `wc ~/bug1/events/500.txt` to get the answer.

Unset

```
156 1560 12554 /home/morty/logs/bug1/events/500.txt
```

E: The first 3 lines from 500.txt. Use `head -3 ~/bug1/events/500.txt` to get the answer.

Unset

```
64.250.112.189 - - [30/12/2019:21:35:13 +0000] "PUT /parsers  
HTTP/1.1" 500 4639
```

```
193.253.101.180 - - [30/12/2019:21:35:31 +0000] "PATCH /alerts  
HTTP/1.1" 500 2944
```

```
197.106.117.194 - - [30/12/2019:21:35:31 +0000] "PATCH /parsers  
HTTP/1.1" 500 3519
```

F: The last 3 lines from `500.txt`. Use `tail -3 ~/bug1/events/500.txt` to get the answer.

Unset

```
207.6.210.203 - - [30/12/2019:22:12:37 +0000] "PATCH /events  
HTTP/1.1" 500 4298
```

```
33.13.118.148 - - [30/12/2019:22:12:38 +0000] "PUT /alerts  
HTTP/1.1" 500 4711
```

```
107.188.33.199 - - [30/12/2019:22:12:59 +0000] "POST /parsers  
HTTP/1.1" 500 2833
```

# Databases

## Task 3

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Please specify the number of cars: 5500

The query that you used to find the number of cars:

Unset

```
SELECT COUNT(DISTINCT vehicle_id) FROM cabs;
```

## Task 4

---

List of companies with fewer than 100 cars:

Unset

Nova Taxi Affiliation Llc		97
Patriot Taxi DbA Peace Taxi Associat		89
Blue Diamond		85
Checker Taxi Affiliation		81
Chicago Medallion Management		80
Chicago Independents		69
24 Seven Taxi		67
Checker Taxi		60
American United		55
Chicago Medallion Leasing INC		53

Top Cab Affiliation		49
KOAM Taxi Association		48
Chicago Taxicab		38
Norshore Cab		34
Gold Coast Taxi		20
Metro Group		20
Service Taxi Association		18
5 Star Taxi		14
American United Taxi Affiliation		8
Metro Jet Taxi A		8
Setare Inc		7
Leonard Cab Co		5
4615 - 83503 Tyrone Henderson		1
5062 - 34841 Sam Mestas		1
4623 - 27290 Jay Kim		1
5997 - 65283 AW Services Inc.		1
2092 - 61288 Sbeih company		1
1469 - 64126 Omar Jada		1
2733 - 74600 Benny Jona		1
2192 - 73487 Zeymane Corp		1
5006 - 39261 Salifu Bawa		1

3556 - 36214 RC Andrews Cab		1
3721 - Santamaria Express, Alvaro Santamaria		1
2809 - 95474 C & D Cab Co Inc.		1
2241 - 44667 - Felman Corp, Manuel Alonso		1
3620 - 52292 David K. Cab Corp.		1
2823 - 73307 Lee Express Inc		1
6057 - 24657 Richard Addo		1
6742 - 83735 Tasha ride inc		1
1085 - 72312 N and W Cab Co		1
3591 - 63480 Chuks Cab		1
0118 - 42111 Godfrey S.Awir		1
6574 - Babylon Express Inc.		1
3094 - 24059 G.L.B. Cab Co		1
5874 - 73628 Sergey Cab Corp.		1
6743 - 78771 Luhak Corp		1
5074 - 54002 Ahzmi Inc		1
3623 - 72222 Arrington Enterprises		1
4053 - 40193 Adwar H. Nikola		1
Chicago Star Taxicab		1
3011 - 66308 JBL Cab Inc.		1

The query that you used to generate the list of companies above:

```
Unset
SELECT
    COUNT(vehicle_id) AS cnt,
    company_name
FROM
    cabs
GROUP BY
    company_name
HAVING COUNT(vehicle_id) < 100
ORDER BY
    cnt DESC;
```