

# Руслан Касаткин, когорта 50\_1 — 4-й спринт

## Консоль

### Задание 1

Команда или последовательность команд, которой удалось получить нужные логи:

```
grep -R "^233.201.*" ~/logs/2019/12
```

Логи:

```
233.201.188.154 - - [18/12/2019:21:46:01 +0000] "DELETE /events HTTP/1.1" 403 3971
```

```
233.201.182.9 - - [21/12/2019:21:56:20 +0000] "PATCH /users HTTP/1.1" 400 4118
```

### Задание 2

Команды, которые создают директории bug1 и events:

```
mkdir bug1
```

```
mkdir events
```

Команда, которой выбираешь запросы за указанный период. Это те запросы, которыми ты отбираешь логи в файл main.txt:

```
grep -R "3./12/2019:21:3.:*" ~/logs/2019/12/ > ~/bug1/main.txt
```

Команды, которыми ты кладёшь логи в файлы 400.txt и 500.txt из main.txt:

```
grep " 400 " ~/bug1/main.txt > ~/bug1/events/400.txt
```

```
grep " 500 " ~/bug1/main.txt > ~/bug1/events/500.txt
```

400.txt

```
logs/2019/12/apache_2019-12-30.txt:80.57.170.51 - - [30/12/2019:21:35:12 +0000]
"DELETE /users HTTP/1.1" 400 3623 logs/2019/12/apache_2019-12-30.txt:204.235.176.118
- - [30/12/2019:21:35:13 +0000] "POST /users HTTP/1.1" 400 4704
logs/2019/12/apache_2019-12-30.txt:82.95.203.67 - - [30/12/2019:21:35:19 +0000]
"DELETE /lists HTTP/1.1" 400 3737 logs/2019/12/apache_2019-12-30.txt:155.242.215.46 - -
[30/12/2019:21:35:38 +0000] "POST /playbooks HTTP/1.1" 400 4450
```

logs/2019/12/apache\_2019-12-30.txt:189.176.85.0 - - [30/12/2019:21:35:39 +0000] "PATCH /alerts HTTP/1.1" 400 2732 logs/2019/12/apache\_2019-12-30.txt:13.108.71.71 - - [30/12/2019:21:35:43 +0000] "PATCH /events HTTP/1.1" 400 3410 logs/2019/12/apache\_2019-12-30.txt:195.213.133.182 - - [30/12/2019:21:35:46 +0000] "PUT /customers HTTP/1.1" 400 3085 logs/2019/12/apache\_2019-12-30.txt:235.243.133.78 - - [30/12/2019:21:35:47 +0000] "PATCH /customers HTTP/1.1" 400 3264 logs/2019/12/apache\_2019-12-30.txt:192.57.115.49 - - [30/12/2019:21:35:55 +0000] "POST /parsers HTTP/1.1" 400 2457 logs/2019/12/apache\_2019-12-30.txt:71.0.49.244 - - [30/12/2019:21:35:55 +0000] "PUT /collectors HTTP/1.1" 400 2785 logs/2019/12/apache\_2019-12-30.txt:224.159.206.126 - - [30/12/2019:21:36:02 +0000] "DELETE /customers HTTP/1.1" 400 4569 logs/2019/12/apache\_2019-12-30.txt:131.35.106.246 - - [30/12/2019:21:36:04 +0000] "DELETE /lists HTTP/1.1" 400 2578 logs/2019/12/apache\_2019-12-30.txt:216.24.42.208 - - [30/12/2019:21:36:06 +0000] "GET /parsers HTTP/1.1" 400 4597 logs/2019/12/apache\_2019-12-30.txt:123.53.150.160 - - [30/12/2019:21:37:19 +0000] "PATCH /events HTTP/1.1" 400 4379 logs/2019/12/apache\_2019-12-30.txt:61.129.127.103 - - [30/12/2019:21:37:32 +0000] "GET /lists HTTP/1.1" 400 2575 logs/2019/12/apache\_2019-12-30.txt:90.216.4.78 - - [30/12/2019:21:37:34 +0000] "PATCH /lists HTTP/1.1" 400 3899 logs/2019/12/apache\_2019-12-30.txt:204.250.214.208 - - [30/12/2019:21:37:36 +0000] "PATCH /parsers HTTP/1.1" 400 4742 logs/2019/12/apache\_2019-12-30.txt:79.214.240.98 - - [30/12/2019:21:37:37 +0000] "POST /fieldsets HTTP/1.1" 400 4441 logs/2019/12/apache\_2019-12-30.txt:65.47.42.12 - - [30/12/2019:21:37:39 +0000] "PATCH /customers HTTP/1.1" 400 2500 logs/2019/12/apache\_2019-12-30.txt:251.118.141.34 - - [30/12/2019:21:37:41 +0000] "POST /customers HTTP/1.1" 400 3519 logs/2019/12/apache\_2019-12-30.txt:205.20.166.196 - - [30/12/2019:21:37:51 +0000] "POST /users HTTP/1.1" 400 4032 logs/2019/12/apache\_2019-12-30.txt:156.217.3.46 - - [30/12/2019:21:37:52 +0000] "PATCH /parsers HTTP/1.1" 400 2020 logs/2019/12/apache\_2019-12-30.txt:48.240.198.167 - - [30/12/2019:21:37:57 +0000] "PATCH /playbooks HTTP/1.1" 400 4100 logs/2019/12/apache\_2019-12-30.txt:101.255.159.211 - - [30/12/2019:21:37:59 +0000] "GET /auth HTTP/1.1" 400 2324 logs/2019/12/apache\_2019-12-30.txt:80.76.98.203 - - [30/12/2019:21:38:00 +0000] "POST /playbooks HTTP/1.1" 400 3045 logs/2019/12/apache\_2019-12-30.txt:85.64.63.255 - - [30/12/2019:21:38:13 +0000] "PATCH /collectors HTTP/1.1" 400 2291 logs/2019/12/apache\_2019-12-30.txt:184.79.247.161 - - [30/12/2019:21:38:13 +0000] "PUT /alerts HTTP/1.1" 400 3557 logs/2019/12/apache\_2019-12-30.txt:93.2.134.22 - - [30/12/2019:21:39:39 +0000] "DELETE /alerts HTTP/1.1" 400 3701 logs/2019/12/apache\_2019-12-31.txt:86.34.86.182 - - [31/12/2019:21:35:10 +0000] "POST /auth HTTP/1.1" 400 3626 logs/2019/12/apache\_2019-12-31.txt:167.37.16.117 - - [31/12/2019:21:35:17 +0000] "PATCH /customers HTTP/1.1" 400 3294 logs/2019/12/apache\_2019-12-31.txt:199.128.92.19 - - [31/12/2019:21:35:43 +0000] "PUT /users HTTP/1.1" 400 4180 logs/2019/12/apache\_2019-12-31.txt:162.152.99.143 - - [31/12/2019:21:35:59 +0000] "PUT /users HTTP/1.1" 400 4606 logs/2019/12/apache\_2019-12-31.txt:83.115.59.224 - - [31/12/2019:21:37:26 +0000] "GET /alerts HTTP/1.1" 400 3489 logs/2019/12/apache\_2019-12-31.txt:194.10.97.226 - - [31/12/2019:21:37:31 +0000] "DELETE /lists HTTP/1.1" 400 2447 logs/2019/12/apache\_2019-12-31.txt:180.99.214.40 - - [31/12/2019:21:37:44 +0000]

"DELETE /alerts HTTP/1.1" 400 2077 logs/2019/12/apache\_2019-12-31.txt:154.152.205.4 -  
- [31/12/2019:21:37:50 +0000] "GET /playbooks HTTP/1.1" 400 3324  
logs/2019/12/apache\_2019-12-31.txt:197.82.125.54 - - [31/12/2019:21:37:52 +0000] "PUT  
/fieldsets HTTP/1.1" 400 4365 logs/2019/12/apache\_2019-12-31.txt:115.89.87.219 - -  
[31/12/2019:21:38:06 +0000] "PUT /playbooks HTTP/1.1" 400 2589  
logs/2019/12/apache\_2019-12-31.txt:100.77.15.14 - - [31/12/2019:21:38:07 +0000] "GET  
/fieldsets HTTP/1.1" 400 4911 logs/2019/12/apache\_2019-12-31.txt:22.33.159.242 - -  
[31/12/2019:21:38:07 +0000] "GET /playbooks HTTP/1.1" 400 3955  
logs/2019/12/apache\_2019-12-31.txt:149.148.229.11 - - [31/12/2019:21:39:16 +0000] "GET  
/users HTTP/1.1" 400 2071 logs/2019/12/apache\_2019-12-31.txt:236.107.64.192 - -  
[31/12/2019:21:39:17 +0000] "PATCH /users HTTP/1.1" 400 2791  
logs/2019/12/apache\_2019-12-31.txt:24.156.105.39 - - [31/12/2019:21:39:23 +0000] "GET  
/lists HTTP/1.1" 400 2902 logs/2019/12/apache\_2019-12-31.txt:193.50.164.254 - -  
[31/12/2019:21:39:23 +0000] "PUT /playbooks HTTP/1.1" 400 3296  
logs/2019/12/apache\_2019-12-31.txt:18.123.104.91 - - [31/12/2019:21:39:52 +0000] "GET  
/collectors HTTP/1.1" 400 4372 logs/2019/12/apache\_2019-12-31.txt:234.218.148.4 - -  
[31/12/2019:21:39:54 +0000] "PUT /users HTTP/1.1" 400 2509

500.txt.

logs/2019/12/apache\_2019-12-30.txt:64.250.112.189 - - [30/12/2019:21:35:13 +0000] "PUT  
/parsers HTTP/1.1" 500 4639 logs/2019/12/apache\_2019-12-30.txt:193.253.101.180 - -  
[30/12/2019:21:35:31 +0000] "PATCH /alerts HTTP/1.1" 500 2944  
logs/2019/12/apache\_2019-12-30.txt:197.106.117.194 - - [30/12/2019:21:35:31 +0000]  
"PATCH /parsers HTTP/1.1" 500 3519 logs/2019/12/apache\_2019-12-30.txt:247.124.71.67 -  
- [30/12/2019:21:35:45 +0000] "PUT /alerts HTTP/1.1" 500 2746  
logs/2019/12/apache\_2019-12-30.txt:62.88.204.119 - - [30/12/2019:21:35:51 +0000] "PUT  
/auth HTTP/1.1" 500 2666 logs/2019/12/apache\_2019-12-30.txt:125.156.142.26 - -  
[30/12/2019:21:36:01 +0000] "PATCH /events HTTP/1.1" 500 3460  
logs/2019/12/apache\_2019-12-30.txt:144.170.212.70 - - [30/12/2019:21:36:04 +0000]  
"DELETE /parsers HTTP/1.1" 500 2599 logs/2019/12/apache\_2019-12-30.txt:59.39.200.252  
- - [30/12/2019:21:36:05 +0000] "GET /alerts HTTP/1.1" 500 2650  
logs/2019/12/apache\_2019-12-30.txt:150.136.200.100 - - [30/12/2019:21:37:24 +0000]  
"POST /lists HTTP/1.1" 500 2684 logs/2019/12/apache\_2019-12-30.txt:84.81.25.45 - -  
[30/12/2019:21:37:25 +0000] "POST /auth HTTP/1.1" 500 2052  
logs/2019/12/apache\_2019-12-30.txt:30.222.160.141 - - [30/12/2019:21:37:30 +0000]  
"PATCH /parsers HTTP/1.1" 500 2017 logs/2019/12/apache\_2019-12-30.txt:117.87.158.36 -  
- [30/12/2019:21:37:34 +0000] "POST /fieldsets HTTP/1.1" 500 4056  
logs/2019/12/apache\_2019-12-30.txt:212.153.128.212 - - [30/12/2019:21:37:42 +0000] "PUT  
/fieldsets HTTP/1.1" 500 3259 logs/2019/12/apache\_2019-12-30.txt:58.188.83.217 - -  
[30/12/2019:21:37:46 +0000] "POST /playbooks HTTP/1.1" 500 3947  
logs/2019/12/apache\_2019-12-30.txt:193.123.131.146 - - [30/12/2019:21:37:47 +0000] "PUT  
/lists HTTP/1.1" 500 3902 logs/2019/12/apache\_2019-12-30.txt:182.7.179.91 - -  
[30/12/2019:21:37:48 +0000] "GET /users HTTP/1.1" 500 2950  
logs/2019/12/apache\_2019-12-30.txt:10.25.168.164 - - [30/12/2019:21:38:05 +0000]  
"PATCH /playbooks HTTP/1.1" 500 3858  
logs/2019/12/apache\_2019-12-30.txt:215.201.210.173 - - [30/12/2019:21:38:11 +0000]

"PATCH /customers HTTP/1.1" 500 3277  
logs/2019/12/apache\_2019-12-30.txt:179.241.103.167 - - [30/12/2019:21:39:23 +0000]  
"POST /lists HTTP/1.1" 500 3669 logs/2019/12/apache\_2019-12-30.txt:147.188.170.252 - -  
[30/12/2019:21:39:33 +0000] "POST /fieldsets HTTP/1.1" 500 3313  
logs/2019/12/apache\_2019-12-30.txt:1.249.123.189 - - [30/12/2019:21:39:36 +0000]  
"PATCH /alerts HTTP/1.1" 500 4734 logs/2019/12/apache\_2019-12-30.txt:124.114.135.105 -  
- [30/12/2019:21:39:41 +0000] "PATCH /customers HTTP/1.1" 500 3348  
logs/2019/12/apache\_2019-12-30.txt:35.215.100.202 - - [30/12/2019:21:39:43 +0000] "PUT  
/alerts HTTP/1.1" 500 4345 logs/2019/12/apache\_2019-12-30.txt:86.222.23.128 - -  
[30/12/2019:21:39:44 +0000] "PATCH /alerts HTTP/1.1" 500 2230  
logs/2019/12/apache\_2019-12-30.txt:20.161.75.95 - - [30/12/2019:21:39:48 +0000]  
"DELETE /users HTTP/1.1" 500 2412 logs/2019/12/apache\_2019-12-30.txt:196.18.151.117 -  
- [30/12/2019:21:39:55 +0000] "PUT /events HTTP/1.1" 500 4439  
logs/2019/12/apache\_2019-12-30.txt:77.101.138.151 - - [30/12/2019:21:39:57 +0000] "PUT  
/lists HTTP/1.1" 500 2194 logs/2019/12/apache\_2019-12-31.txt:208.205.133.127 - -  
[31/12/2019:21:35:17 +0000] "DELETE /alerts HTTP/1.1" 500 4561  
logs/2019/12/apache\_2019-12-31.txt:20.145.255.91 - - [31/12/2019:21:35:30 +0000] "GET  
/parsers HTTP/1.1" 500 3051 logs/2019/12/apache\_2019-12-31.txt:91.66.134.13 - -  
[31/12/2019:21:35:53 +0000] "POST /lists HTTP/1.1" 500 3319  
logs/2019/12/apache\_2019-12-31.txt:31.88.211.206 - - [31/12/2019:21:35:57 +0000]  
"DELETE /events HTTP/1.1" 500 2325 logs/2019/12/apache\_2019-12-31.txt:171.37.114.114  
- - [31/12/2019:21:37:39 +0000] "DELETE /fieldsets HTTP/1.1" 500 3253  
logs/2019/12/apache\_2019-12-31.txt:223.157.242.167 - - [31/12/2019:21:37:59 +0000]  
"POST /users HTTP/1.1" 500 2283 logs/2019/12/apache\_2019-12-31.txt:98.181.102.34 - -  
[31/12/2019:21:38:06 +0000] "PATCH /fieldsets HTTP/1.1" 500 4672  
logs/2019/12/apache\_2019-12-31.txt:254.74.22.79 - - [31/12/2019:21:38:06 +0000] "PUT  
/lists HTTP/1.1" 500 2259 logs/2019/12/apache\_2019-12-31.txt:103.46.238.3 - -  
[31/12/2019:21:38:09 +0000] "PUT /lists HTTP/1.1" 500 3992  
logs/2019/12/apache\_2019-12-31.txt:41.62.205.107 - - [31/12/2019:21:39:20 +0000]  
"PATCH /alerts HTTP/1.1" 500 3631 logs/2019/12/apache\_2019-12-31.txt:22.53.105.197 - -  
[31/12/2019:21:39:31 +0000] "DELETE /collectors HTTP/1.1" 500 4202  
logs/2019/12/apache\_2019-12-31.txt:178.22.133.42 - - [31/12/2019:21:39:43 +0000] "PUT  
/alerts HTTP/1.1" 500 4648 logs/2019/12/apache\_2019-12-31.txt:102.247.13.50 - -  
[31/12/2019:21:39:55 +0000] "PATCH /auth HTTP/1.1" 500 3736

# База данных

## Задание 1

Число автомобилей:

5529

Запрос, которым тебе удалось решить задачу.

```
SELECT COUNT(*) AS cabs_mach FROM cabs;
```

## Задание 2

Список компаний с числом автомобилей меньше 100.

cnt	company_name
97	Nova Taxi Affiliation Llc
89	Patriot Taxi Dbа Peace Taxi Associat
85	Blue Diamond
81	Checker Taxi Affiliation
80	Chicago Medallion Management
69	Chicago Independents
67	24 Seven Taxi
60	Checker Taxi
55	American United
53	Chicago Medallion Leasing INC
49	Top Cab Affiliation
48	KOAM Taxi Association
38	Chicago Taxicab
34	Norshore Cab
20	Gold Coast Taxi
20	Metro Group
18	Service Taxi Association
14	5 Star Taxi
8	American United Taxi Affiliation
8	Metro Jet Taxi A
7	Setare Inc
5	Leonard Cab Co
1	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.
(51 rows)

```

Запрос, которым тебе удалось решить задачу.

```

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

```

### Задание 3

Таблица с данными за указанный период.

ts	weather_conditions
2017-11-05 00:00:00	Good
2017-11-05 01:00:00	Bad
2017-11-05 02:00:00	Good
2017-11-05 03:00:00	Good
2017-11-05 04:00:00	Bad
2017-11-05 05:00:00	Bad
2017-11-05 06:00:00	Good
2017-11-05 07:00:00	Good
2017-11-05 08:00:00	Good
2017-11-05 09:00:00	Good
2017-11-05 10:00:00	Good
2017-11-05 11:00:00	Good

```

2017-11-05 12:00:00 | Good
2017-11-05 13:00:00 | Good
2017-11-05 14:00:00 | Bad
2017-11-05 15:00:00 | Good
2017-11-05 16:00:00 | Bad
2017-11-05 17:00:00 | Good
2017-11-05 18:00:00 | Bad
2017-11-05 19:00:00 | Bad
2017-11-05 20:00:00 | Bad
2017-11-05 21:00:00 | Good
2017-11-05 22:00:00 | Good
2017-11-05 23:00:00 | Good
2017-11-06 00:00:00 | Good
(25 rows)

```

Запрос, которым удалось решить задачу.

```

SELECT ts AS ts, description AS weather_condition, CASE WHEN description LIKE
'%rain%' OR description LIKE '%storm%' THEN 'bad' ELSE 'good' END FROM
weather_records WHERE '2017-11-05 00:00' <= ts AND ts <= '2017-11-06 00:00';

```

#### Задание 4

Таблица с данными за указанный период.

company_name	trips_amount
Flash Cab	19558
Taxi Affiliation Services	11422
Medallion Leasin	10367
Yellow Cab	9888
Taxi Affiliation Service Yellow	9299
Chicago Carriage Cab Corp	9181
City Service	8448
Sun Taxi	7701
Star North Management LLC	7455
Blue Ribbon Taxi Association Inc.	5953
Choice Taxi Association	5015
Globe Taxi	4383
Dispatch Taxi Affiliation	3355
Nova Taxi Affiliation Llc	3175
Patriot Taxi Db a Peace Taxi Associat	2235
Checker Taxi Affiliation	2216
Blue Diamond	2070
Chicago Medallion Management	1955
24 Seven Taxi	1775

Chicago Medallion Leasing INC		1607	
Checker Taxi		1486	
American United		1404	
Chicago Independents		1296	
KOAM Taxi Association		1259	
Chicago Taxicab		1014	
Top Cab Affiliation		978	
Gold Coast Taxi		428	
Service Taxi Association		402	
5 Star Taxi		310	
303 Taxi		250	
Setare Inc		230	
American United Taxi Affiliation		210	
Leonard Cab Co		147	
Metro Jet Taxi A		146	
Norshore Cab		127	
6742 - 83735 Tasha ride inc		39	
3591 - 63480 Chuks Cab		37	
1469 - 64126 Omar Jada		36	
6743 - 78771 Luhak Corp		33	
0118 - 42111 Godfrey S.Awir		33	
6574 - Babylon Express Inc.		31	
Chicago Star Taxicab		29	
1085 - 72312 N and W Cab Co		29	
2809 - 95474 C & D Cab Co Inc.		29	
2092 - 61288 Sbeih company		27	
3011 - 66308 JBL Cab Inc.		25	
3620 - 52292 David K. Cab Corp.		21	
4615 - 83503 Tyrone Henderson		21	
3623 - 72222 Arrington Enterprises		20	
5074 - 54002 Ahzmi Inc		16	
2823 - 73307 Lee Express Inc		15	
4623 - 27290 Jay Kim		15	
3721 - Santamaria Express, Alvaro Santamaria		14	14
5006 - 39261 Salifu Bawa		14	
2192 - 73487 Zeymane Corp		14	
6057 - 24657 Richard Addo		13	
5997 - 65283 AW Services Inc.		12	
Metro Group		11	
5062 - 34841 Sam Mestas		8	
4053 - 40193 Adwar H. Nikola		7	
2733 - 74600 Benny Jona		7	
5874 - 73628 Sergey Cab Corp.		5	
2241 - 44667 - Felman Corp, Manuel Alonso		3	3
3556 - 36214 RC Andrews Cab		2	

(64 rows)



Запрос, которым удалось решить задачу.

```
SELECT company_name AS company_name, COUNT(trips.cab_id) AS trips_amount  
FROM trips INNER JOIN cabs ON cabs.cab_id = trips.cab_id WHERE start_ts >=  
'2017-11-15 00:00' AND start_ts <= '2017-11-16 23:59' GROUP BY company_name  
ORDER BY trips_amount DESC;
```