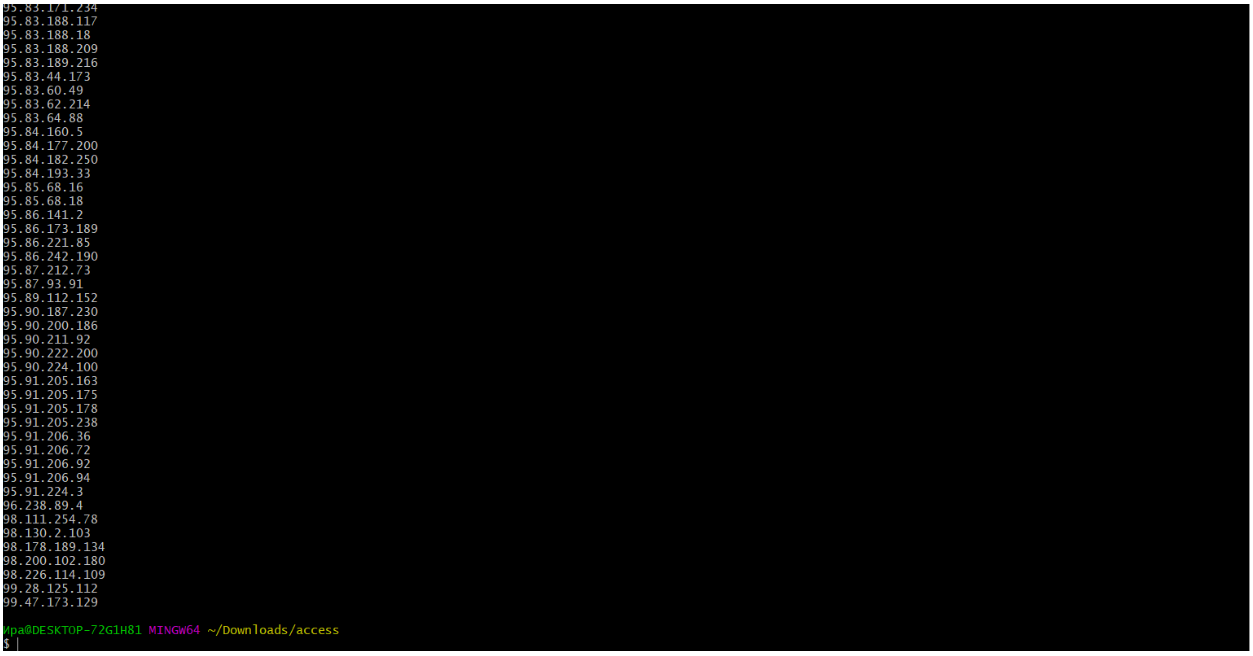
Анализ логов (файл access.log)

Найти с помощью утилит grep, awk и подобных следующую информацию:

a. С каких IP-адресов были заходы.

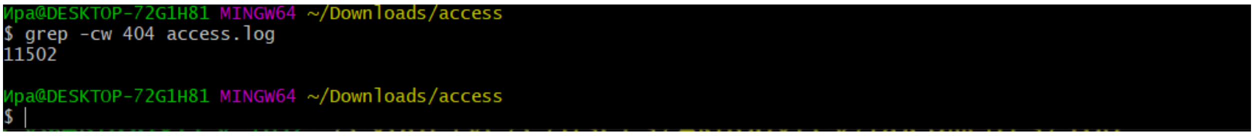
awk '{print $1}' access.log | sort | uniq



```
95.83.171.234
95.83.188.117
95.83.188.18
95.83.188.209
95.83.189.216
95.83.44.173
95.83.60.49
95.83.62.214
95.83.64.88
95.84.160.5
95.84.177.200
95.84.182.250
95.84.193.33
95.85.68.16
95.85.68.18
95.86.141.2
95.86.173.189
95.86.221.85
95.86.242.190
95.87.212.73
95.87.93.91
95.89.112.152
95.90.187.230
95.90.200.186
95.90.211.92
95.90.222.200
95.90.224.100
95.91.205.163
95.91.205.175
95.91.205.178
95.91.205.238
95.91.206.36
95.91.206.72
95.91.206.92
95.91.206.94
95.91.224.3
96.238.89.4
98.111.254.78
98.130.2.103
98.178.189.134
98.200.102.180
98.226.114.109
99.28.125.112
99.47.173.129

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ |
```

b. Были ли страницы 404?

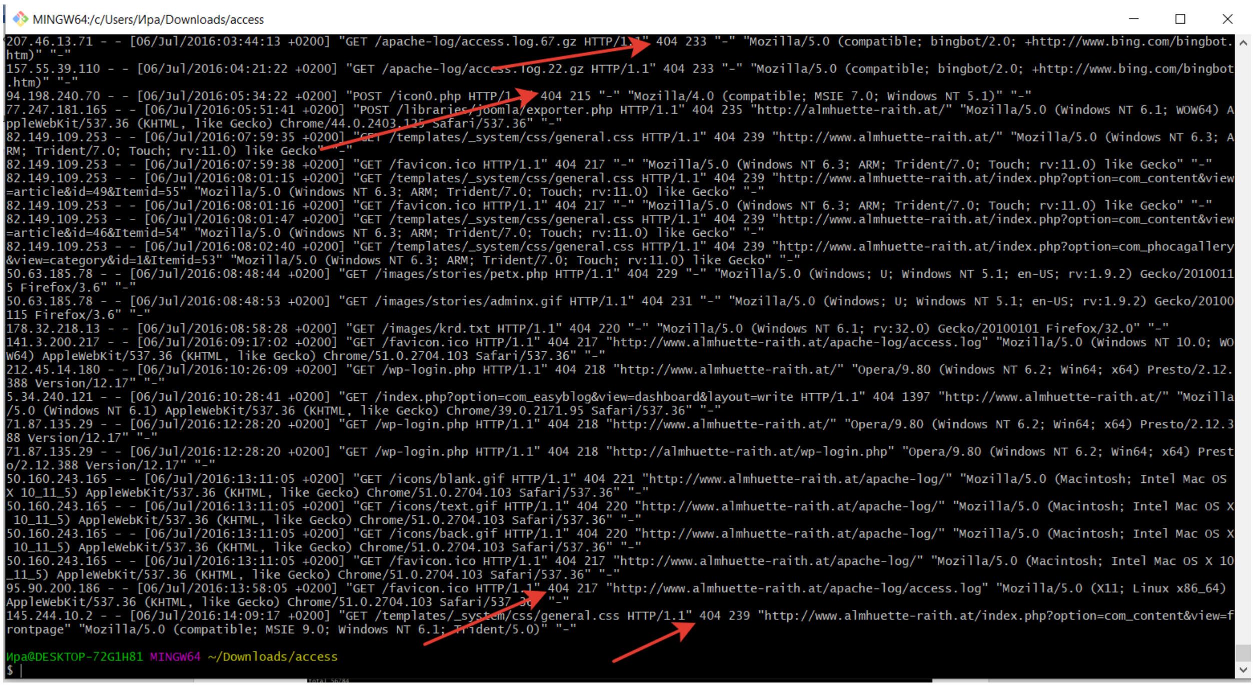
grep -cw 404 access.log



```
Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ grep -cw 404 access.log
11502

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ |
```

Если да — вывести “битые” страницы.

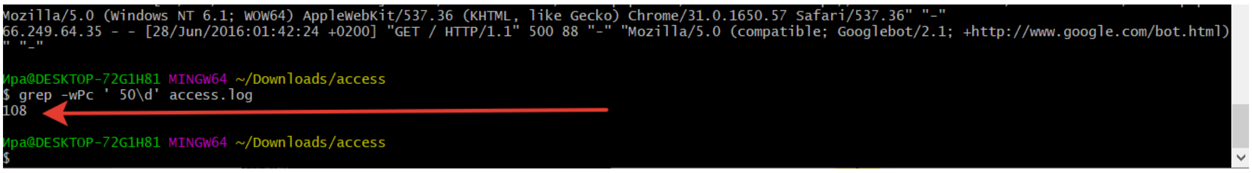
grep -w 404 access.log



```
207.46.13.71 - - [06/Jul/2016:03:44:13 +0200] "GET /apache-log/access.log.67.gz HTTP/1.1" 404 233 "-" "Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.
htm)" "-"
157.55.39.110 - - [06/Jul/2016:04:21:22 +0200] "GET /apache-log/access.log.22.gz HTTP/1.1" 404 233 "-" "Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot
.htm)" "-"
94.198.240.70 - - [06/Jul/2016:05:34:22 +0200] "POST /icon0.php HTTP/1.1" 404 215 "-" "Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1)" "-"
77.247.181.165 - - [06/Jul/2016:05:51:41 +0200] "POST /libraries/joomla/exporter.php HTTP/1.1" 404 235 "http://almhuette-raith.at/" "Mozilla/5.0 (Windows NT 6.1; WOW64) A
ppleWebKit/537.36 (KHTML, like Gecko) Chrome/44.0.2403.125 Safari/537.36" "-"
82.149.109.253 - - [06/Jul/2016:07:59:35 +0200] "GET /templates/_system/css/general.css HTTP/1.1" 404 239 "http://www.almhuette-raith.at/" "Mozilla/5.0 (Windows NT 6.3; A
RM; Trident/7.0; Touch; rv:11.0) like Gecko" "-"
82.149.109.253 - - [06/Jul/2016:07:59:38 +0200] "GET /favicon.ico HTTP/1.1" 404 217 "-" "Mozilla/5.0 (Windows NT 6.3; ARM; Trident/7.0; Touch; rv:11.0) like Gecko" "-"
82.149.109.253 - - [06/Jul/2016:08:01:15 +0200] "GET /templates/_system/css/general.css HTTP/1.1" 404 239 "http://www.almhuette-raith.at/index.php?option=com_content&view
=article&id=49&Itemid=55" "Mozilla/5.0 (Windows NT 6.3; ARM; Trident/7.0; Touch; rv:11.0) like Gecko" "-"
82.149.109.253 - - [06/Jul/2016:08:01:16 +0200] "GET /favicon.ico HTTP/1.1" 404 217 "-" "Mozilla/5.0 (Windows NT 6.3; ARM; Trident/7.0; Touch; rv:11.0) like Gecko" "-"
82.149.109.253 - - [06/Jul/2016:08:01:47 +0200] "GET /templates/_system/css/general.css HTTP/1.1" 404 239 "http://www.almhuette-raith.at/index.php?option=com_content&view
=article&id=46&Itemid=54" "Mozilla/5.0 (Windows NT 6.3; ARM; Trident/7.0; Touch; rv:11.0) like Gecko" "-"
82.149.109.253 - - [06/Jul/2016:08:02:40 +0200] "GET /templates/_system/css/general.css HTTP/1.1" 404 239 "http://www.almhuette-raith.at/index.php?option=com_phocagallery
&view=category&id=1&Itemid=53" "Mozilla/5.0 (Windows NT 6.3; ARM; Trident/7.0; Touch; rv:11.0) like Gecko" "-"
50.63.185.78 - - [06/Jul/2016:08:48:44 +0200] "GET /images/stories/petx.php HTTP/1.1" 404 229 "-" "Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2) Gecko/2010011
5 Firefox/3.6" "-"
50.63.185.78 - - [06/Jul/2016:08:48:53 +0200] "GET /images/stories/adminx.gif HTTP/1.1" 404 231 "-" "Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.9.2) Gecko/20100
115 Firefox/3.6" "-"
178.32.218.13 - - [06/Jul/2016:08:58:28 +0200] "GET /images/krd.txt HTTP/1.1" 404 220 "-" "Mozilla/5.0 (Windows NT 6.1; rv:32.0) Gecko/20100101 Firefox/32.0" "-"
141.3.200.217 - - [06/Jul/2016:09:17:02 +0200] "GET /favicon.ico HTTP/1.1" 404 217 "http://www.almhuette-raith.at/apache-log/access.log" "Mozilla/5.0 (Windows NT 10.0; WO
W64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36" "-"
212.45.14.180 - - [06/Jul/2016:10:26:09 +0200] "GET /wp-login.php HTTP/1.1" 404 218 "http://www.almhuette-raith.at/" "Opera/9.80 (Windows NT 6.2; Win64; x64) Presto/2.12.
388 Version/12.17" "-"
5.34.240.121 - - [06/Jul/2016:10:28:41 +0200] "GET /index.php?option=com_easyblog&view=dashboard&layout=write HTTP/1.1" 404 1397 "http://www.almhuette-raith.at/" "Mozilla
/5.0 (Windows NT 6.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/39.0.2171.95 Safari/537.36" "-"
71.87.135.29 - - [06/Jul/2016:12:28:20 +0200] "GET /wp-login.php HTTP/1.1" 404 218 "http://www.almhuette-raith.at/" "Opera/9.80 (Windows NT 6.2; Win64; x64) Presto/2.12.3
88 Version/12.17" "-"
71.87.135.29 - - [06/Jul/2016:12:28:20 +0200] "GET /wp-login.php HTTP/1.1" 404 218 "http://almhuette-raith.at/wp-login.php" "Opera/9.80 (Windows NT 6.2; Win64; x64) Prest
o/2.12.388 Version/12.17" "-"
50.160.243.165 - - [06/Jul/2016:13:11:05 +0200] "GET /icons/blank.gif HTTP/1.1" 404 221 "http://www.almhuette-raith.at/apache-log/" "Mozilla/5.0 (Macintosh; Intel Mac OS
X 10_11_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36" "-"
50.160.243.165 - - [06/Jul/2016:13:11:05 +0200] "GET /icons/text.gif HTTP/1.1" 404 220 "http://www.almhuette-raith.at/apache-log/" "Mozilla/5.0 (Macintosh; Intel Mac OS X
 10_11_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36" "-"
50.160.243.165 - - [06/Jul/2016:13:11:05 +0200] "GET /icons/back.gif HTTP/1.1" 404 220 "http://www.almhuette-raith.at/apache-log/" "Mozilla/5.0 (Macintosh; Intel Mac OS X
 10_11_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36" "-"
50.160.243.165 - - [06/Jul/2016:13:11:05 +0200] "GET /favicon.ico HTTP/1.1" 404 217 "http://www.almhuette-raith.at/apache-log/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10
_11_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36" "-"
95.90.200.186 - - [06/Jul/2016:13:58:05 +0200] "GET /favicon.ico HTTP/1.1" 404 217 "http://www.almhuette-raith.at/apache-log/access.log" "Mozilla/5.0 (X11; Linux x86_64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/51.0.2704.103 Safari/537.36" "-"
145.244.10.2 - - [06/Jul/2016:14:09:17 +0200] "GET /templates/_system/css/general.css HTTP/1.1" 404 239 "http://www.almhuette-raith.at/index.php?option=com_content&view=f
rontpage" "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.1; Trident/5.0)" "-"

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ |
```

c. Были ли ошибки сервера (коды ответа 50x).

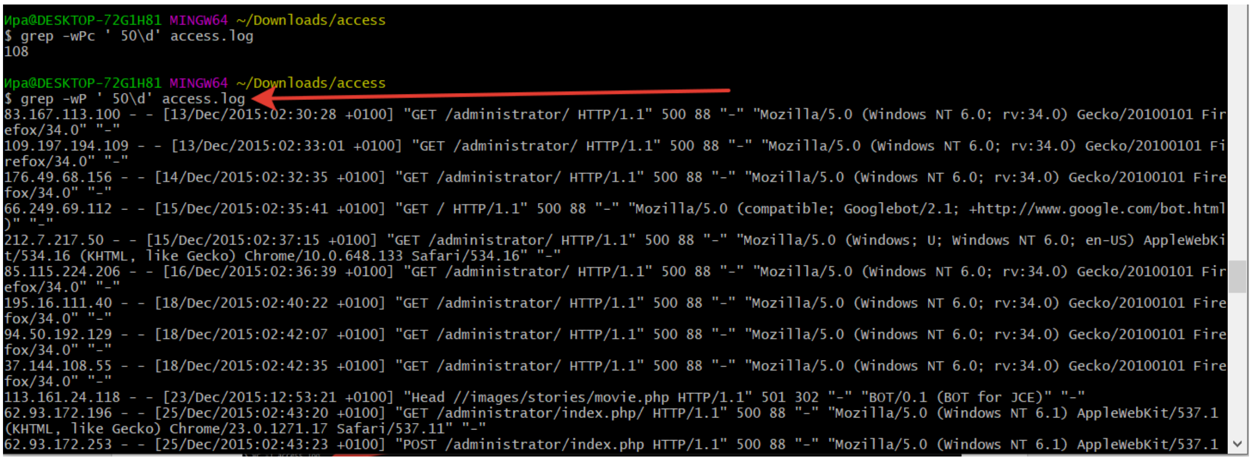
grep -wPc ' 50\d' access.log



```
ozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/31.0.1650.57 Safari/537.36" "-"
66.249.64.35 - - [28/Jun/2016:01:42:24 +0200] "GET / HTTP/1.1" 500 88 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)
" "-"

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ grep -wPc ' 50\d' access.log
108

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$
```

Если да — вывести страницы.

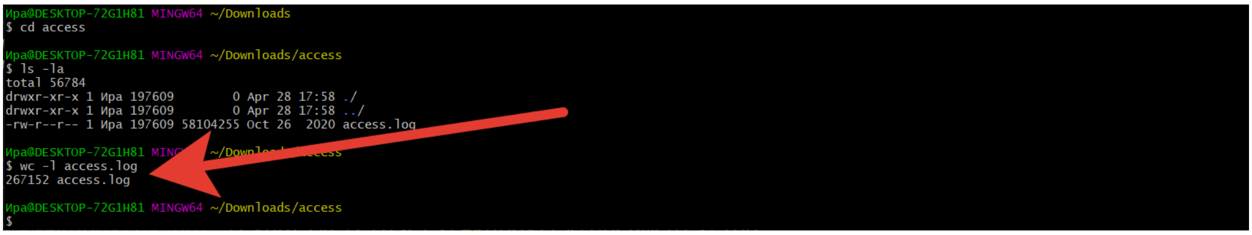
grep -wP ' 50\d' access.log



```
Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ grep -wPc ' 50\d' access.log
108

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ grep -wP ' 50\d' access.log
83.167.113.100 - - [13/Dec/2015:02:30:28 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Fir
efox/34.0" "-"
109.197.194.109 - - [13/Dec/2015:02:33:01 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Fi
refox/34.0" "-"
176.49.68.156 - - [14/Dec/2015:02:32:35 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Fire
fox/34.0" "-"
66.249.69.112 - - [15/Dec/2015:02:35:41 +0100] "GET / HTTP/1.1" 500 88 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html
)" "-"
212.7.217.50 - - [15/Dec/2015:02:37:15 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows; U; Windows NT 6.0; en-US) AppleWebKi
t/534.16 (KHTML, like Gecko) Chrome/10.0.648.133 Safari/534.16" "-"
85.115.224.206 - - [16/Dec/2015:02:36:39 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Fir
efox/34.0" "-"
195.16.111.40 - - [18/Dec/2015:02:40:22 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Fire
fox/34.0" "-"
94.50.192.129 - - [18/Dec/2015:02:42:07 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Fire
fox/34.0" "-"
37.144.108.55 - - [18/Dec/2015:02:42:35 +0100] "GET /administrator/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Fire
fox/34.0" "-"
113.161.24.118 - - [23/Dec/2015:12:53:21 +0100] "Head //images/stories/movie.php HTTP/1.1" 501 302 "-" "BOT/0.1 (BOT for JCE)" "-"
62.93.172.196 - - [25/Dec/2015:02:43:20 +0100] "GET /administrator/index.php/ HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.1
(KHTML, like Gecko) Chrome/23.0.1271.17 Safari/537.11" "-"
62.93.172.253 - - [25/Dec/2015:02:43:23 +0100] "POST /administrator/index.php HTTP/1.1" 500 88 "-" "Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.1
```

d. Подсчитать общее количество обращений к ресурсу (количество записей в файле).

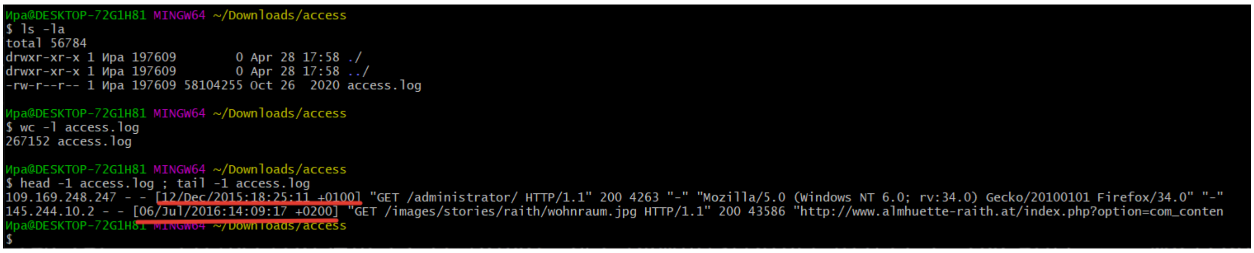
wc -l access.log



```
Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads
$ cd access

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ ls -la
total 56784
drwxr-xr-x 1 Ира 197609        0 Apr 28 17:58 ./
drwxr-xr-x 1 Ира 197609        0 Apr 28 17:58 ../
-rw-r--r-- 1 Ира 197609 58104255 Oct 26  2020 access.log

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ wc -l access.log
267152 access.log

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$
```

e. Определить временные диапазоны лога (время в первой и последней записи).

head -l access.log : tail -l access.log



```
Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ ls -la
total 56784
drwxr-xr-x 1 Ира 197609        0 Apr 28 17:58 ./
drwxr-xr-x 1 Ира 197609        0 Apr 28 17:58 ../
-rw-r--r-- 1 Ира 197609 58104255 Oct 26  2020 access.log

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ wc -l access.log
267152 access.log

Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$ head -1 access.log ; tail -1 access.log
109.169.248.247 - - [12/Dec/2015:18:25:11 +0100] "GET /administrator/ HTTP/1.1" 200 4263 "-" "Mozilla/5.0 (Windows NT 6.0; rv:34.0) Gecko/20100101 Firefox/34.0" "-"
145.244.10.2 - - [06/Jul/2016:14:09:17 +0200] "GET /images/stories/raith/wohnraum.jpg HTTP/1.1" 200 43586 "http://www.almhuette-raith.at/index.php?option=com_conten
Ира@DESKTOP-72G1H81 MINGW64 ~/Downloads/access
$
```