

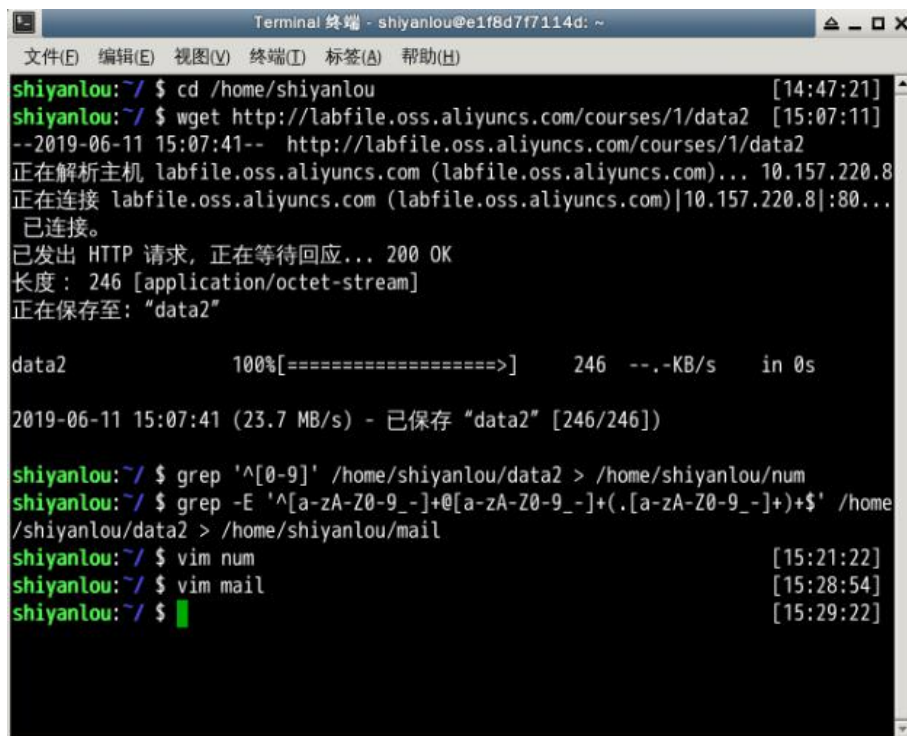
Linux 基础入门之挑战四数据提取

1. 挑战目标

在文件 `/home/shiyanlou/data2` 中匹配数字开头的行，将所有以数字开头的行都写入 `/home/shiyanlou/num` 文件。

在文件 `/home/shiyanlou/data2` 中匹配出正确格式的邮箱，将所有的邮箱写入 `/home/shiyanlou/mail` 文件，注意该文件中每行为一个邮箱。

2. 实验过程



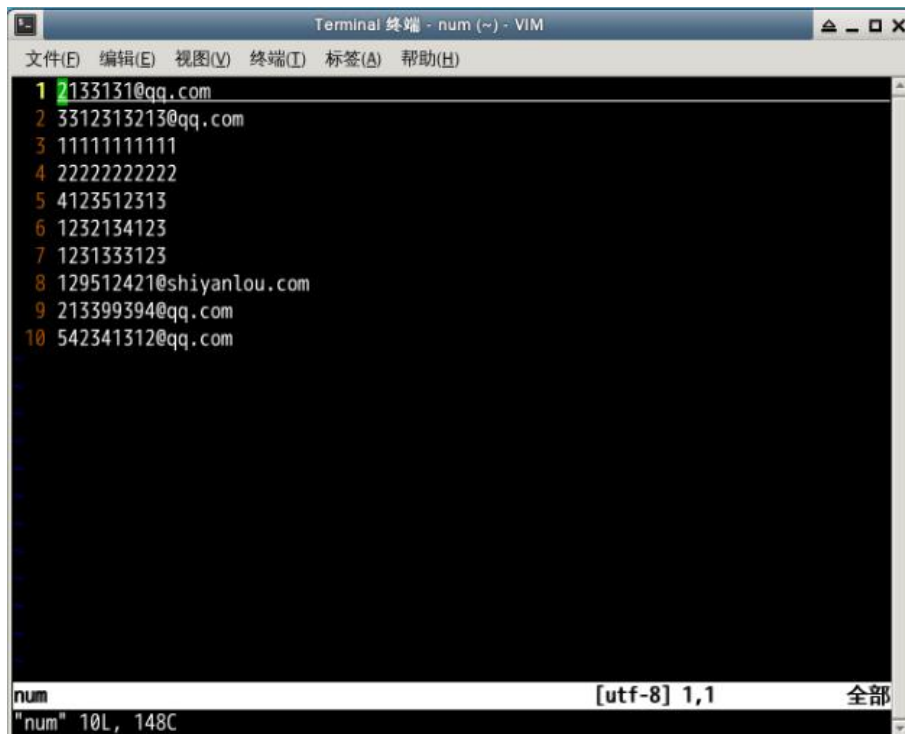
```
Terminal 终端 - shiyanlou@e1f8d7f7114d: ~
文件(E) 编辑(E) 视图(V) 终端(T) 标签(A) 帮助(H)

shiyanlou:~/ $ cd /home/shiyanlou [14:47:21]
shiyanlou:~/ $ wget http://labfile.oss.aliyuncs.com/courses/1/data2 [15:07:11]
--2019-06-11 15:07:41-- http://labfile.oss.aliyuncs.com/courses/1/data2
正在解析主机 labfile.oss.aliyuncs.com (labfile.oss.aliyuncs.com)... 10.157.220.8
正在连接 labfile.oss.aliyuncs.com (labfile.oss.aliyuncs.com)|10.157.220.8|:80...
已连接。
已发出 HTTP 请求, 正在等待回应... 200 OK
长度: 246 [application/octet-stream]
正在保存至: "data2"

data2          100%[=====>]      246  --.-KB/s   in 0s

2019-06-11 15:07:41 (23.7 MB/s) - 已保存 "data2" [246/246]

shiyanlou:~/ $ grep '^[0-9]' /home/shiyanlou/data2 > /home/shiyanlou/num
shiyanlou:~/ $ grep -E '[a-zA-Z0-9_-]+@[a-zA-Z0-9_-]+(\.[a-zA-Z0-9_-]+)?$' /home
/shiyanlou/data2 > /home/shiyanlou/mail
shiyanlou:~/ $ vim num [15:21:22]
shiyanlou:~/ $ vim mail [15:28:54]
shiyanlou:~/ $ [15:29:22]
```



The screenshot shows a VIM terminal window titled "Terminal 终端 - num (~) - VIM". The menu bar includes "文件(F)", "编辑(E)", "视图(V)", "终端(T)", "标签(A)", and "帮助(H)". The main text area contains a list of 10 items, each with a line number and a string: 1 2133131@qq.com, 2 3312313213@qq.com, 3 11111111111, 4 22222222222, 5 4123512313, 6 1232134123, 7 1231333123, 8 129512421@shiyantou.com, 9 213399394@qq.com, and 10 542341312@qq.com. The status bar at the bottom indicates the file is named "num", is in utf-8 encoding, and the cursor is at line 1, column 1. It also shows the file size as 10L, 148C.

```
1 2133131@qq.com
2 3312313213@qq.com
3 11111111111
4 22222222222
5 4123512313
6 1232134123
7 1231333123
8 129512421@shiyantou.com
9 213399394@qq.com
10 542341312@qq.com
```

num [utf-8] 1,1 全部
"num" 10L, 148C



The screenshot shows a VIM terminal window titled "Terminal 终端 - mail (~) - VIM". The menu bar includes "文件(F)", "编辑(E)", "视图(V)", "终端(T)", "标签(A)", and "帮助(H)". The main text area contains a list of 7 items, each with a line number and a string: 1 2133131@qq.com, 2 3312313213@qq.com, 3 testfile@163.com, 4 chenghaoyang@gmail.com, 5 129512421@shiyantou.com, 6 213399394@qq.com, and 7 542341312@qq.com. The status bar at the bottom indicates the file is named "mail", is in utf-8 encoding, and the cursor is at line 1, column 1. It also shows the file size as 7L, 131C.

```
1 2133131@qq.com
2 3312313213@qq.com
3 testfile@163.com
4 chenghaoyang@gmail.com
5 129512421@shiyantou.com
6 213399394@qq.com
7 542341312@qq.com
```

mail [utf-8] 1,1 全部
"mail" 7L, 131C