

1.日志文件 `access.log` 文件,约 10 万行,日志的格式和内容相对固定,具体内容如:

```
2019/03/12    21:23:25    [info]    client:    118.124.94.110    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=4e8227b63&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [error]    client:    118.124.94.110    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=4e8227b63&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [error]    client:    118.124.94.110    server:    www.minerbabe.com,    request:    "GET
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2019/03/12    21:23:25    [info]    client:    118.124.94.110    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=4e8227b63&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [error]    client:    118.124.94.110    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=4e8227b63&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [error]    client:    118.124.94.173    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=2d20b53c5&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [error]    client:    118.124.94.173    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=2d20b53c5&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [error]    client:    118.124.94.27    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=fa7c727f0&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [error]    client:    118.124.94.75    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=e7c5fbd34&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
2019/03/12    21:23:25    [info]    client:    118.124.94.29    server:    www.minerbabe.com,    request:    "GET
/keys/ssh/pb?device_id=d4b3050af&need_update=0 HTTP/1.1", host: "www.minerbabe.com"
.....
```

请写一个完整的脚本(shell/python),统计各个 IP 错误日志([error])的次数并按错误数由高到低输出统计情况

上面例子log 的输出结果如下:

IP	error_cnt
118.124.94.110	3
118.124.94.173	2
118.124.94.27	1
118.124.94.75	1
118.124.94.29	0

2.有 100 台ubuntu 服务器， 相互之间内网 ssh 互通， 用户名密码已知， 服务器ip 列表已知， 请设计一个技术方案，输出磁盘使用率超过 90%的服务器。

要求写出详细的技术方案，涉及到的命令和脚本请写好代码，第三方库请介绍安装使用说明。

3.（必答） 自学 XMR 如何用 CPU 挖矿，全流程实践并提供 xmr 挖矿钱包在矿池的查看链接，确保矿池能看到有挖矿请求即可，不要求持续挖。回答要点：xmr 币的情况介绍，算法，cpu 挖矿收益如何，一天能挖多少钱，自己实际申请 xmr 钱包地址，自己用电脑挖起来，挖矿算力

能在矿池查看并给出查看链接， 当前主流的 xmr 矿池有哪些，xmr 用什么软件挖收益高；

Xmr 分叉的情况，分叉后有哪些小币种？

(第三题最重要的题目，如不能完成此题则无需回复试题答案)