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Lab 0 Writeup
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This lab took me about 6 hours to do. I did attend the lab session.

My secret code from section 2.1 was: [code here]
```

1. Program Structure and Design:

(1) 建立 tcp 连接

```
    TCPSocket sock;
    sock.connect(Address(host, "http"));
```

(2) 发送(write)字节流: 请求报文

```
    sock.write("GET " + path + " HTTP/1.1\r\n" + "Host: " + host + "\r\n" +
"Connection: close\r\n\r\n");
```

(3) 接收(read)字节流: 打印回复报文的内容
    报文内容可能不止一个, 需通过检查 EOF 标志位来判断是否接收完毕

```
    string str;
    while (!sock.eof())
    {
        sock.read(str);
        cout << str;
    }
```

(4) 关闭 tcp 连接

```
    sock.close();
```

2. Implementation Challenges:

问题: 环境配置 - VSC 无法远程接入实验环境
解决方法: 创建共享文件
在主机创建 share 文件, 在虚拟机创建 share 文件, 设置其二 share 文件为共享文件

```
15  cd ~
16  ls
17  pwd
18  mkdir share
19  chmod 777 share
20  ls -la
21  sudo mount -t vboxsf share share
22  cd share/
23  ls
```

3. Remaining Bugs:

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*More details and requirements of sections above can be found in
`lab0_tutorials.pdf/4.submit`*