

计算机网络课程设计

项目目录

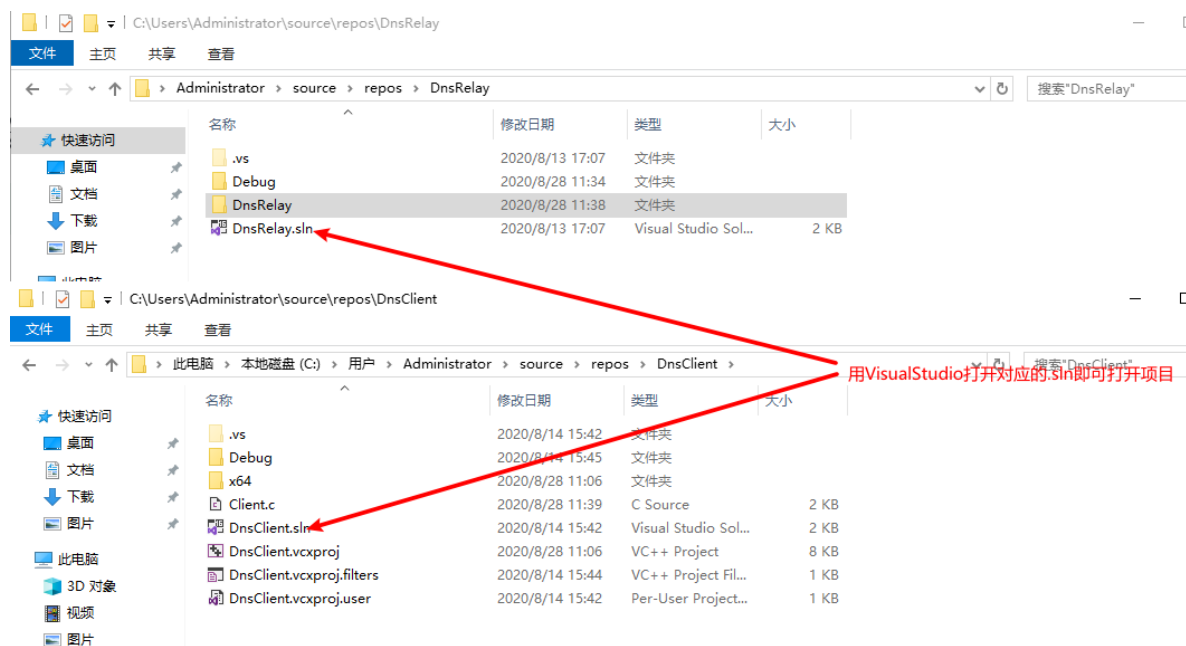
名称	修改日期	类型	大小
DnsClient	2020/8/28 11:39	文件夹	客户端
DnsRelay	2020/8/28 11:35	文件夹	服务器

客户端和服务端都是VisualStudio项目，安装VisualStudio运行较简单

服务器是本次课设的重点，客户端主要用于方便对DnsRelay的测试和开发

开发环境

- VisualStudio(Windows)
- Clion(Linux)

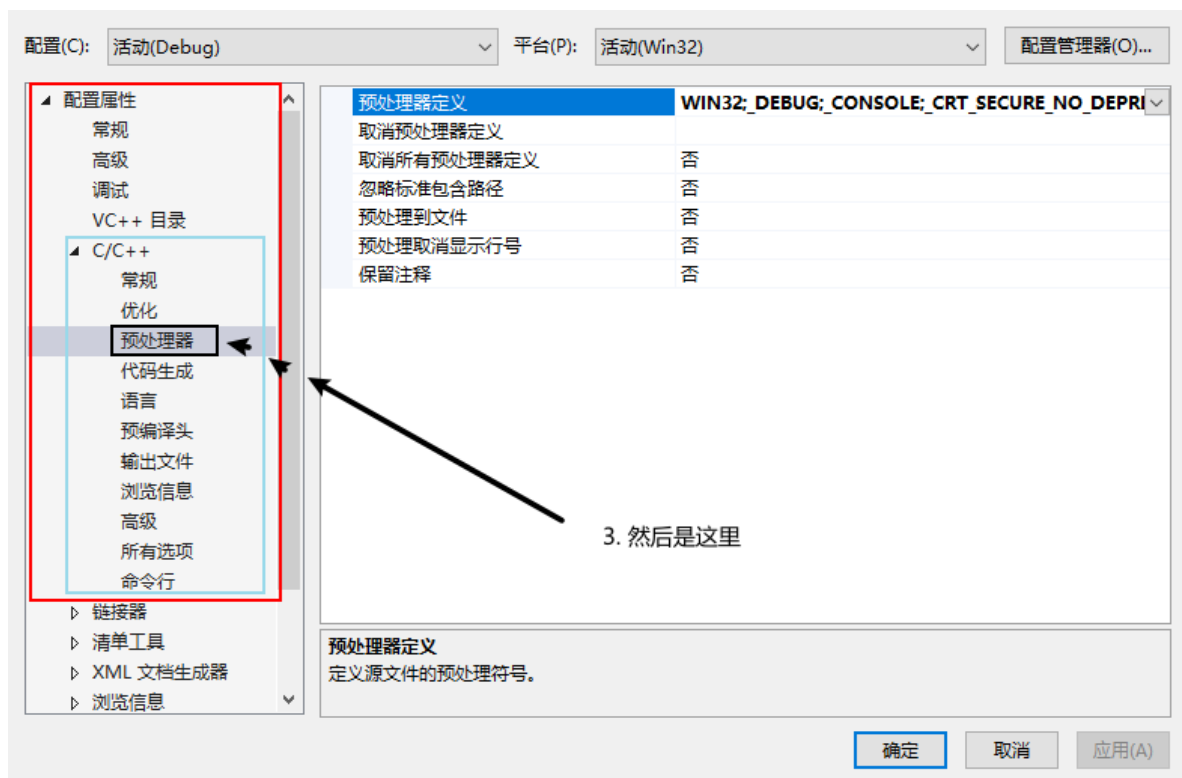
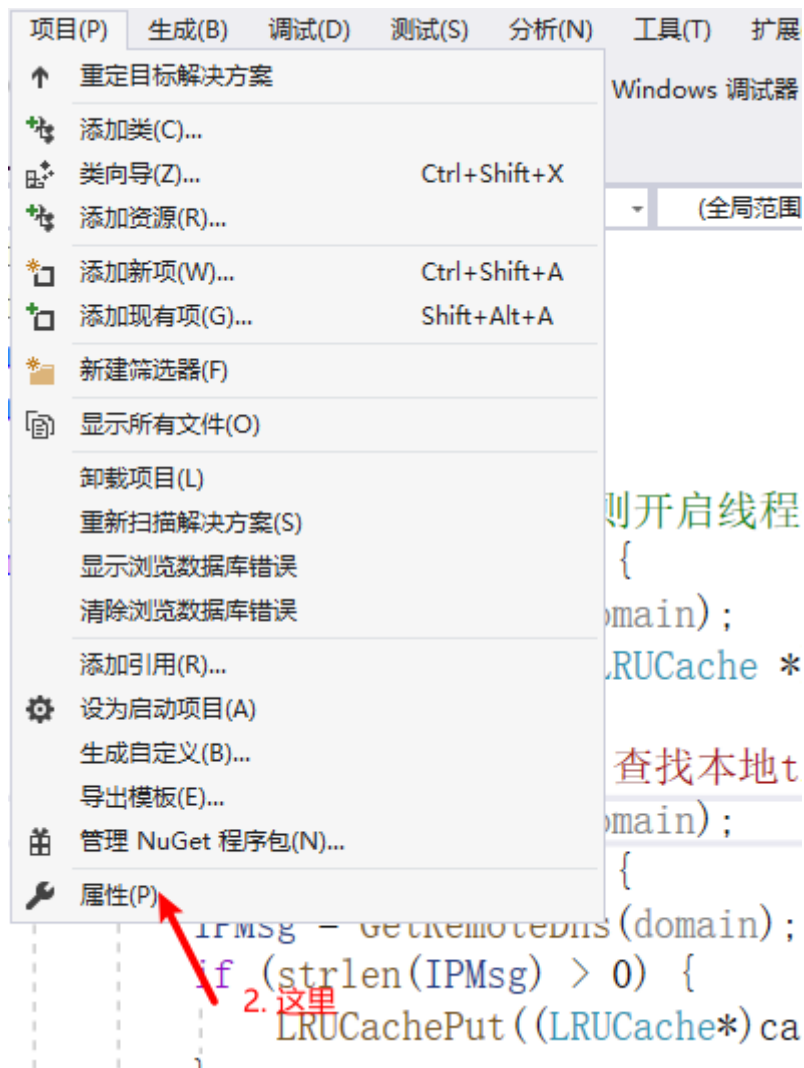


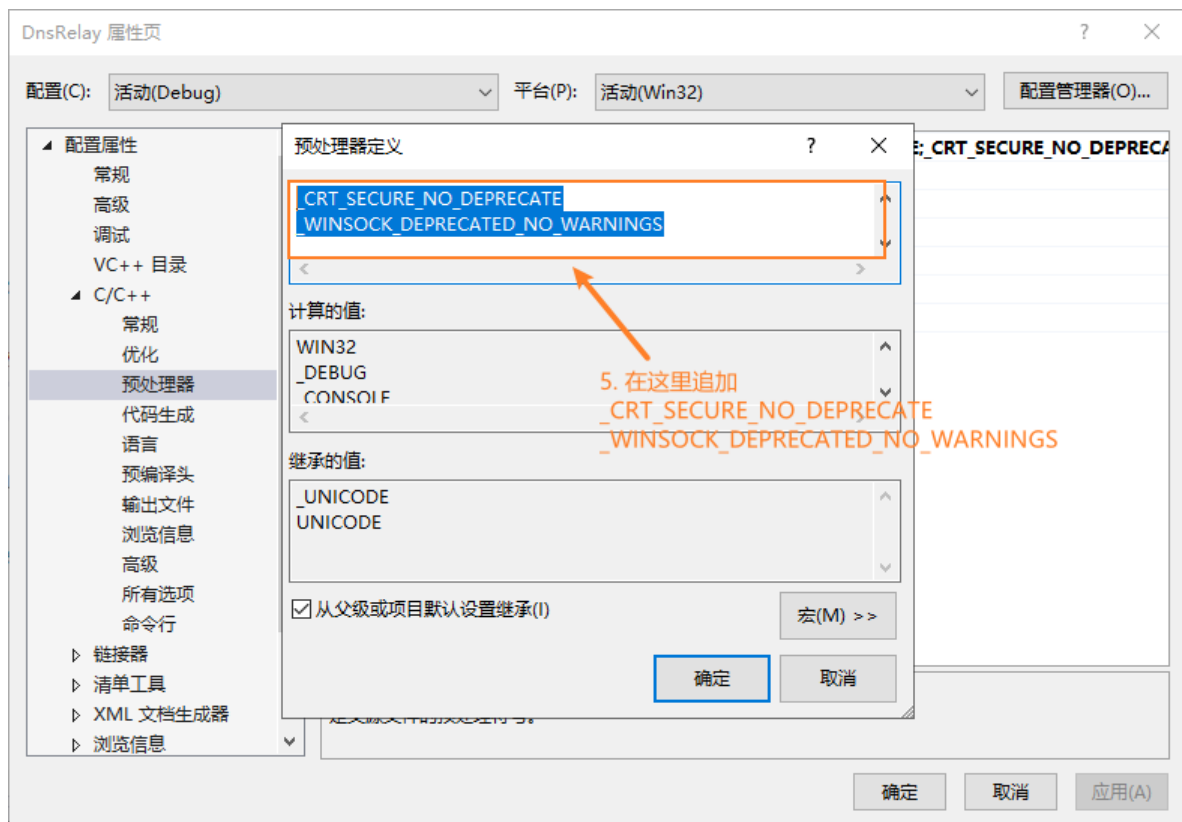
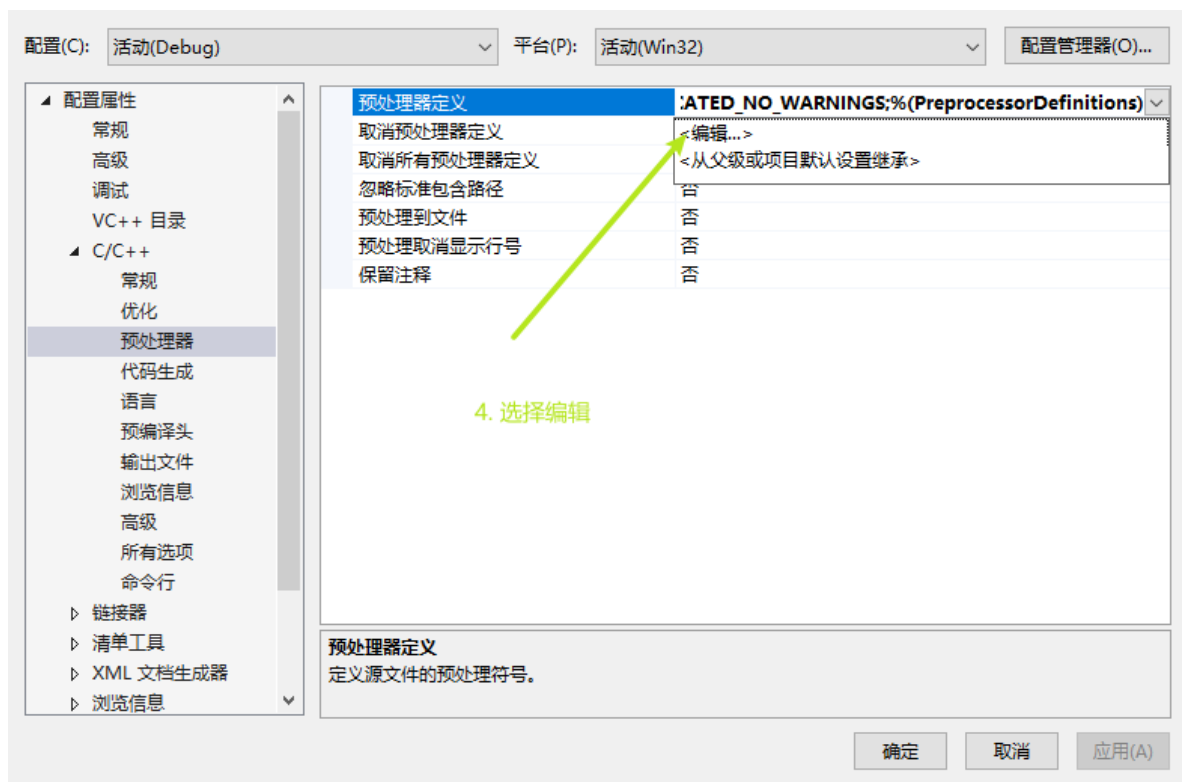
首次运行时需要修改项目的预处理器

出现 `_WINSOCKET_DEPRECATED_NO_WARNINGS` 这样的错误时也需要修改预处理器

对于DnsRelay项目







_CRT_SECURE_NO_DEPRECATED 和 _WINSOCK_DEPRECATED_NO_WARNINGS

对于DNS Client项目

同样的操作, 不过追加的内容为 _WINSOCK_DEPRECATED_NO_WARNINGS

测试

C:\Users\Administrator\source\repos\DnsClient\64\Debug\DnsClient.exe

```
Input a string: www.baidu.com
Message from server: 103.235.46.40
Input a string: www.baidu.com
Message from server: 103.235.46.40
Input a string: www.baidu.com
Message from server: 103.235.46.40
Input a string: www.alisdiy.com
Message from server: 182.92.193.59
Input a string: www.alisdiy.com
Message from server: 182.92.193.59
Input a string: www.alisdiy.com
Message from server: 182.92.193.59
Input a string: monoid.top
Message from server: 182.92.193.59
Input a string:
```

C:\Users\Administrator\source\repos\DnsRelay\Debug\DnsRelay.exe

```
domain is www.baidu.com
不在缓存中命中, 发起查询
Failed: flag is -1 and errno is 0
flag is 100 and errno is 0
key is www.baidu.com
key is www.baidu.com
domain is www.baidu.com
不在缓存中命中
domain is www.alisdiy.com
不在缓存中命中
domain is www.alisdiy.com
不在缓存中命中
Failed: flag is -1 and errno is 0
flag is 50 and errno is 0
key is www.alisdiy.com
key is www.alisdiy.com
domain is www.alisdiy.com
不在缓存中命中
domain is www.alisdiy.com
不在缓存中命中
domain is monoid.top
不在缓存中命中, 发起查询
Failed: flag is -1 and errno is 0
Failed: flag is -1 and errno is 0
flag is 44 and errno is 0
monoid.top => 182.92.193.59
key is monoid.top
```