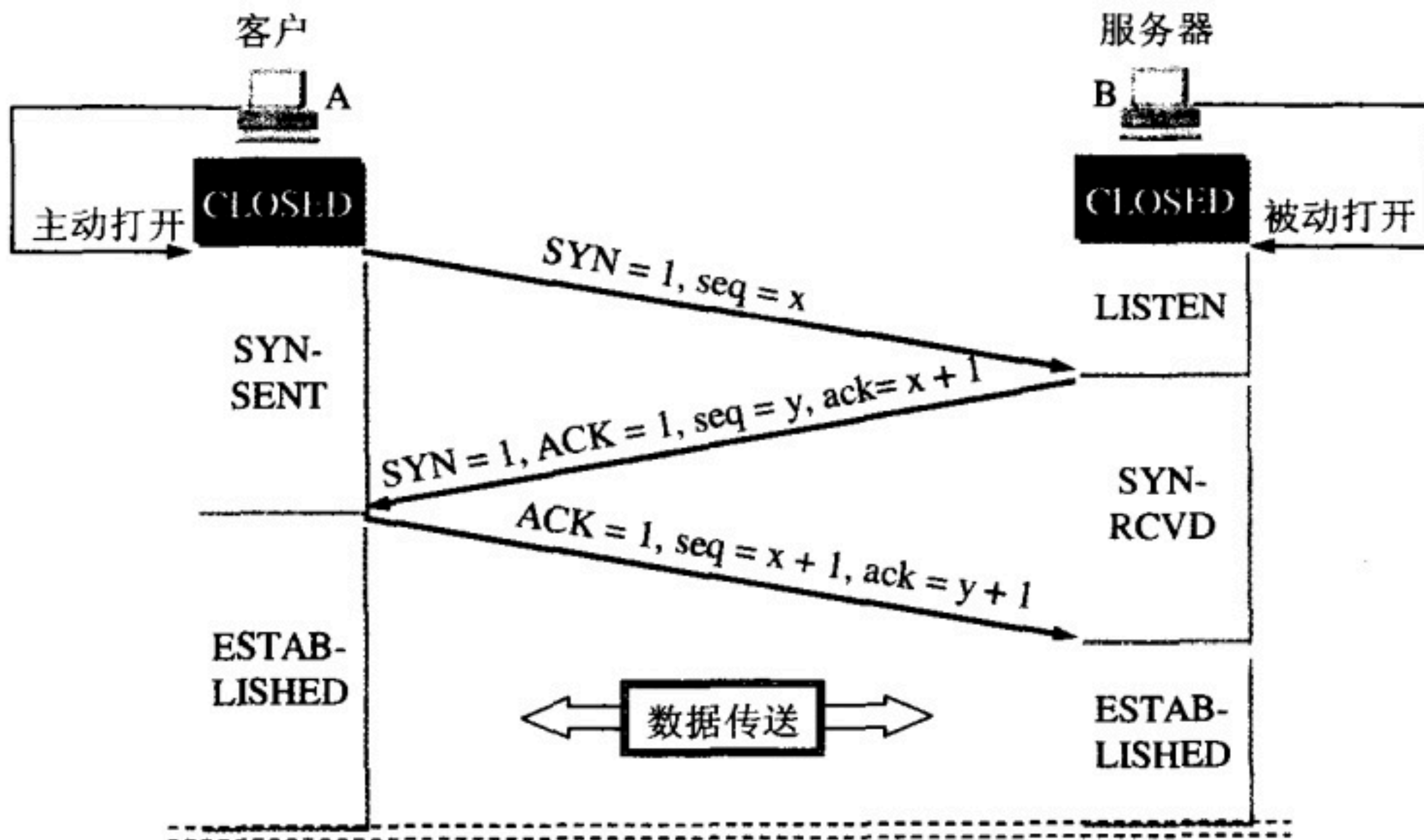


# 互联网常用协议

TCP/IP (2)

# 三次握手



# 日常对话

在吗?

在的, 你呢?

好

帮我找个bug吧

代码和错误信息让我看看

How are you ?

I'm fine, and you?

I'm fine too.

Would you like ...

It's ...

打招呼完毕, 要说正事了

经常被吐槽的英语教科书问候法

# 日常对话

在吗？

在的，找我啥事啊？



抱歉，刚刚上厕所去了，  
还在吗？

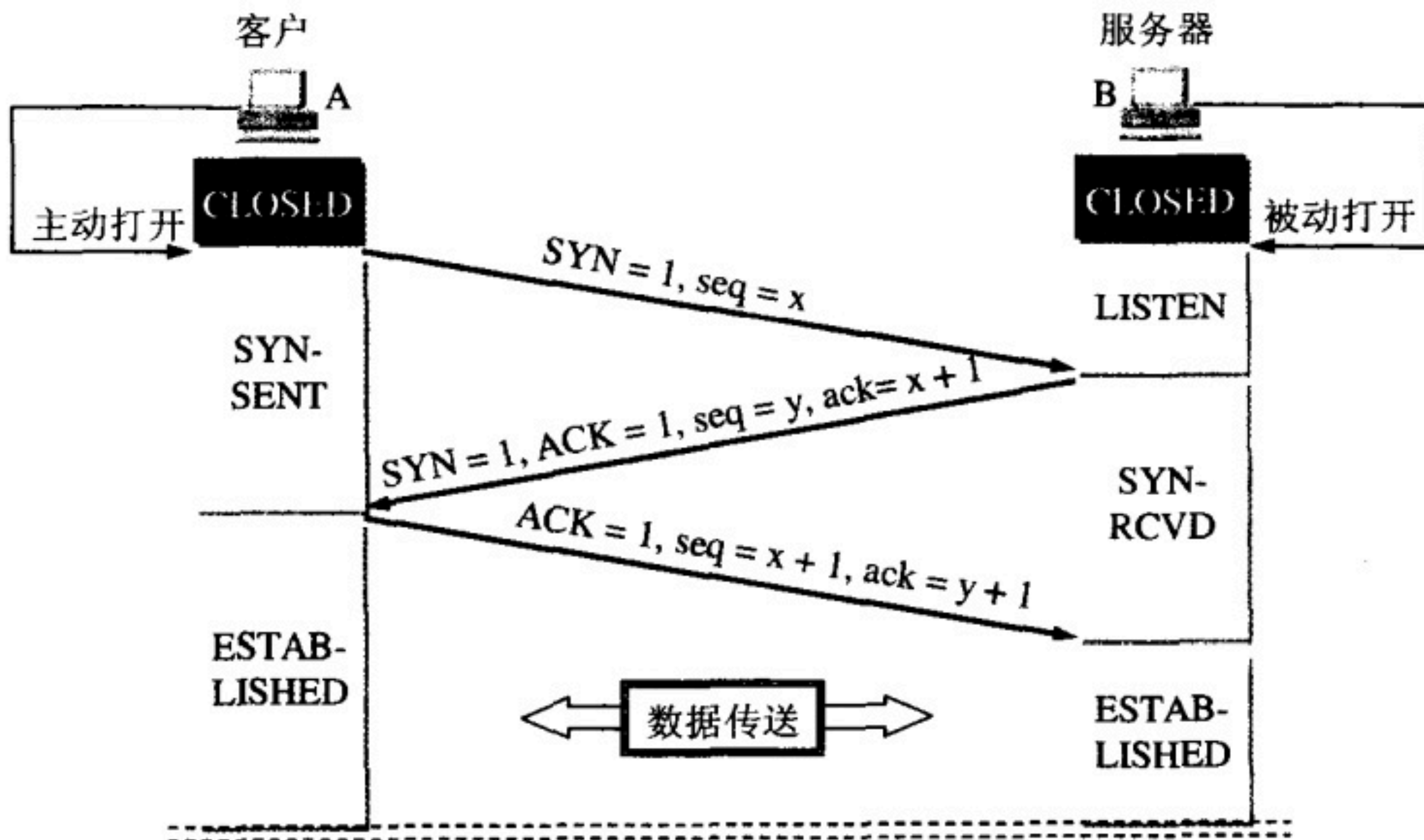
在吗？

12:55

现在在了，你在呢？

12:55

# 三次握手

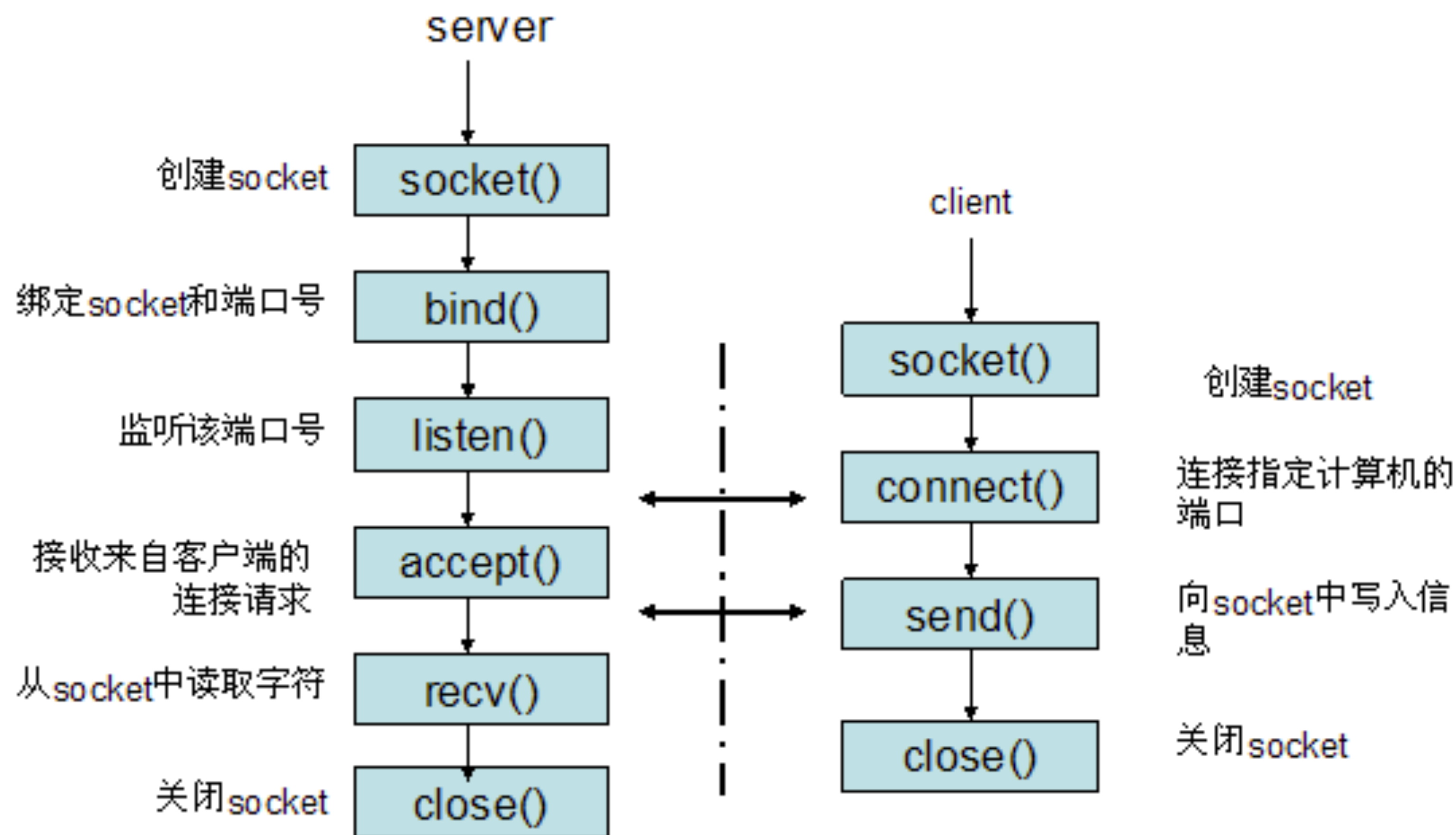


# DOS攻击

- 拒绝服务攻击 Denial-Of-Service attack DOS
- 分布式拒绝服务攻击 Distributed Denial-Of-Service attack DDOS
- UDP洪水攻击 User Datagram Protocol floods
- CC攻击 Distributed HTTP flood, 分布式HTTP洪水攻击

# Socket

- 套接字
- socket address由ip地址和端口组成
- 通过socket实现tcp/ip编程



# TCP程序例子 (Server)

```
ServerSocket welcomeSocket = new ServerSocket(6789);
System.out.println("Server started, waiting for connections on 6789.");
while (true) {
    System.out.println("waiting...");
    Socket connectionSocket = welcomeSocket.accept();
    System.out.println("One client connected.");
    BufferedReader inFromClient = new BufferedReader(
        new InputStreamReader(connectionSocket.getInputStream()));
    DataOutputStream outToClient = new DataOutputStream(
        connectionSocket.getOutputStream());
    String clientSentence = inFromClient.readLine();
    System.out.println("Received: " + clientSentence);
    String capitalizedSentence = clientSentence.toUpperCase() + '\n';
    outToClient.writeBytes(capitalizedSentence);
    outToClient.close();
    System.out.println("close client connection.");
    connectionSocket.close();
}
```



# TCP程序例子 (Client)

```
Socket clientSocket = new Socket("localhost", 6789);
DataOutputStream outToServer = new DataOutputStream(
    clientSocket.getOutputStream());
BufferedReader inFromServer = new BufferedReader(
    new InputStreamReader(clientSocket.getInputStream()));
outToServer.writeBytes("hello, tcpserver.\n");
String responseString = inFromServer.readLine();
System.out.println("Send to SERVER: " + sentence);
System.out.println("Received: " + responseString);
clientSocket.close();
```