

ReadME

Assignment #4 plain-text file

Group members:

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Server section:

- Server execution:

- compile:

```
- gcc server.c -o serverBinary
```

- ./serverBinary <port>

```
- ./serverBinary 9999
```

- Server functionality:
 - The server read an array size first then read an array of integers.
 - Reverse the array and return it to the client.
 - create a new thread for every connection.

Client Section:

- Client execution:

- compile:

```
- gcc client.c -o clientBinary
```

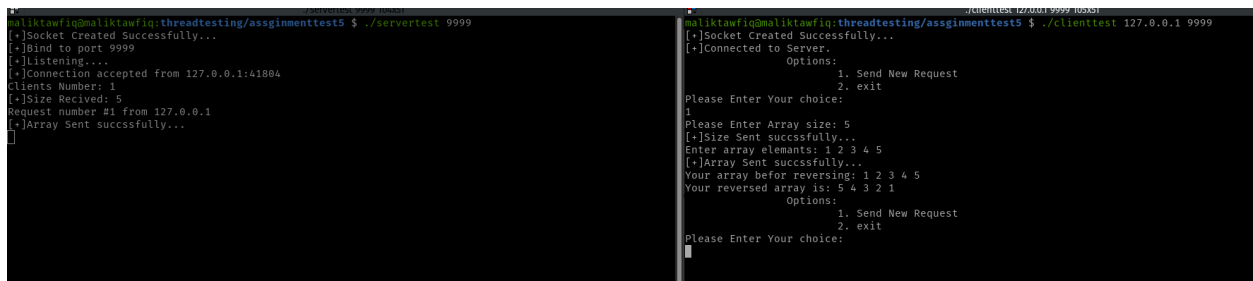
- `./clientBinary <IP> <PORT>`

```
./clientBinary 127.0.0.1 9999
```

- Client Functionality:

- The client has two options, the first option is to send a new request the second is to exit.
- Read a line from the size of the array and then the array elements and send them to the server.
- print the array before and after reversing.

Sample Run:



The image shows two terminal windows side-by-side. The left window shows the server running with the command `./servertest 9999`. It displays messages for socket creation, binding to port 9999, listening, and accepting a connection from 127.0.0.1:41804. It then shows the client sending a size of 5 and the array elements 1 2 3 4 5. The right window shows the client running with the command `./clienttest 127.0.0.1 9999`. It displays messages for socket creation, connecting to the server, and a menu with options 1 (Send New Request) and 2 (exit). The user selects option 1, enters the array size 5 and the elements 1 2 3 4 5. The client then displays the array before reversing (1 2 3 4 5) and after reversing (5 4 3 2 1), and shows the same menu again.

```
malikta@malikta:~/threadtesting/assignmenttest5 $ ./servertest 9999
[+]Socket Created Successfully...
[+]Bind to port 9999
[+]Listening....
[+]Connection accepted from 127.0.0.1:41804
Clients Number: 1
[+]Size Received: 5
Request number #1 from 127.0.0.1
[+]Array Sent successfully...
malikta@malikta:~/threadtesting/assignmenttest5 $ ./clienttest 127.0.0.1 9999
[+]Socket Created Successfully...
[+]Connected to Server.
Options:
    1. Send New Request
    2. exit
Please Enter Your choice:
1
Please Enter Array size: 5
[+]Size Sent successfully...
Enter array elements: 1 2 3 4 5
[+]Array Sent successfully...
Your array befor reversing: 1 2 3 4 5
Your reversed array is: 5 4 3 2 1
Options:
    1. Send New Request
    2. exit
Please Enter Your choice:
```