

Program 3-Client

Run client as follows:

```
java -Dfile.encoding="Unicode" -Dline.separator=BLAH WUNUClient <parameters>
```

Precondition: Post to Twitter so the datagram size will be maximized (i.e., make several maximum length posts)

Test 1 – wind:6000 (35 points): Correct server

1. Run with no arguments, one argument, two arguments, and three arguments with bad server name.
2. Run client against server requesting 1 post.
3. Run client against server requesting 0 posts.
4. Run client against server requesting 300 posts.

Make sure the post count and content is correct

Poor coding: Check for limited datagram sizes

Verify random query ID in code: -5

Test 2 – wind:4002 (15 points): Server ignores 75% of packets

Run client requesting 10 posts. Rerun client if it doesn't get a response or if gets a response on the first try. Make sure the posts are correct.

Test 3 – wind:4003 (10 points): Server returns truncated packet

Run client requesting 10 posts. The client should report an appropriate error message.

Test 4 – wind:4004 (10 points): Server returns elongated packet

Run client requesting 10 posts. The client should report an appropriate error message.

Test 5 – wind:4005 (10 points): Server uses incorrect query ID followed with correct response 1 second later

Run client requesting 10 posts. The client should report the error message or ignore the bad response. If the client reports an appropriate error message and quits, that is acceptable.

Test 6 – wind:4006 (10 points): Server returning an error (7)

Run client requesting 10 posts. The client should report an appropriate error message.

JUNIT tests (10 points):

Verify separate classes for packet representation and separated encode/decode functionality

Verify working unit tests with good coverage

0 if program does not compile

Take off points for poor coding practices

- 2 unused include/import or unjustified include/import.* or import.* w/o > 4 matching classes
- 10 for poor commenting
- 2 for each unjustified numeric constant
- 5 bad submission
- 1 for each section of commented code
- 5 if violate coding convention
- 5 incorrect command-line parameters/usage message
- 15 encoding or line ending problems