CSE 489/589 Programming Assignment 1 Grading Guidelines (Spring 2012)
(For Undergraduate Students)

Note: Please use {embankment, euston, highgate, underground}.cse.buffalo.edu to test your program. Each of those four servers has an independent /local/ directory. Create one folder with your UBIT name in the /local/ directory on each of them and change those folders' mode to make sure you are the only one allowed to access them (e.g., chmod –R 700 [your folder's name]; this is to prevent other ones copying your code). For the programming assignment 1, we will grade your submission following the below guidelines:

[+10] Start the program and connect to one peer.
Command Syntax:
To Start: ./A1 *<TCP Port>*
CONNECT: CONNECT *<Host Name> <TCP Port>*
[+10] Block of duplicate connections and self connection.
[+10] Show local IP with MYIP command.
[+10] Send/recv small and large txt file between the only connection.
Command Syntax:
UPLOAD: UPLOAD *<Connection Number> <File Name>*
Note: The large txt file should be larger than 50Mbytes.
[+10] Send/recv binary file between the only connection.
Note: Use a jpeg image file to test your program.
[+10] Terminate a peer, connect to another peer and list/upload and then connect to 3 peers and list.
Command Syntax:
TERMINATE: TERMINATE <Connection Number>
[+20] Download multiple txt files at the same time from 1, 2 or 3 peers.
Command Syntax:
DOWNLOAD: DOWNLOAD <Connection Number 1> <File Name 1> <Connection Number 2> <File Name 2> …
Note: DOWNLOAD command should support 2, 4 or 6 input arguments (each connection transfers one file). The downloaded files should be stored in a different folder.
[+10] Test all other commands.
a. HELP 2%
b. EXIT 3%
c. MYPORT 3%
d. CREATOR 2%
[+10] Check code documentation.
[+ Bonus 10] Finish experiment analysis (Refer to the assignment description 4.4).

Note: We will check the differences between the original file and the downloaded file, both in terms of size as well as content. If they're different all the time, then 25% would be off. If the file size is different sometimes, then 10% will be deducted. (Here we give the students points first if tests complete normally, and then subtract points off if the files are different).

`

CSE 489/589 Programming Assignment 1 Grading Guidelines (Spring 2012)
(For Graduate Students)

Note: Please use {embankment, euston, highgate, underground}.cse.buffalo.edu to test your program. Each of those four servers has an independent /local/ directory. Create one folder with your UBIT name in the /local/ directory on each of them and change those folders' mode to make sure you are the only one allowed to access them (e.g., chmod –R 700 [your folder's name]; this is to prevent other ones copying your code). For the programming assignment 1, we will grade your submission following the below guidelines:

[+10] Start the program and connect to one peer.   *Command Syntax:*   To Start: ./A1 *<TCP Port>*   CONNECT: CONNECT *<Host Name> <TCP Port>*
[+5] Block of duplicate connections and self connection.
[+10] Show local IP with MYIP command.
[+10] Send/recv small and large txt file between the only connection.   *Command Syntax:*   UPLOAD: UPLOAD *<Connection Number> <File Name>*   *Note:* The large txt file should be larger than 50Mbytes.
[+10] Send/recv binary file between the only connection.   *Note:* Use a jpeg image file to test your program.
[+10] Terminate a peer, connect to another peer and list/upload and then connect to 3 peers and list.   *Command Syntax:*   TERMINATE: TERMINATE <Connection Number>
[+15] Download multiple txt files at the same time from 1, 2 or 3 peers.   *Command Syntax:*   DOWNLOAD: DOWNLOAD <Connection Number 1> <File Name 1> <Connection Number 2> <File Name 2> …   *Note:* DOWNLOAD command should support 2, 4 or 6 input arguments (each connection transfers one file). The downloaded files should be stored in a different folder.
[+10] Test all other commands.   a. HELP 2%   b. EXIT 3%   c. MYPORT 3%   d. CREATOR 2%
[+20] Check code documentation and experiment analysis.

Note: We will check the differences between the original file and the downloaded file, both in terms of size as well as content. If they're different all the time, then 25% would be off. If the file size is different sometimes, then 10% will be deducted. (Here we give the students points first if tests complete normally, and then subtract points off if the files are different).

`