

CS 270
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April 12, 2024

Programming Assignment #3
20 Points
Due: April 22, 2024

Objective: Develop a simple client-server calculator that uses *postfix* notation.

Description: Write a client-server program that calculates values based upon a character (operator) and two numbers (*integers*) that are entered, using *postfix* notation. The character represents the operation (e.g., +, -, *, /, %) to be performed and the two numbers are the operands. For example, the input expression 5 3 * represents 5 * 3 (this is known as post-fix notation).

Notes:

- Use ports in the range: 4500 – 4525
- The expression is to be read using a single prompt on the *client* side. The *server* program will calculate and return the answer.
- Sample code/information:
http://www.linuxhowtos.org/C_C++/socket.htm
- Make sure that your server program is not left running after you are finished!
- Create a *makefile* to build/manage the process of building the client and server programs.

Deliverables:

- Programming Log:
 - Record the time required to design and implement your program.
 - Record of things you encountered/learned while implementing your program.
- Program—fully documented.
- Submit the programming log, output, makefile, and program on paper.

If you have any questions regarding this assignment, do not hesitate to contact me. Start working on this assignment as soon as possible, so that you have plenty of time to get help if you need it.