

Command Line Math Program:

Write a C++ program in a file named math.cpp. Work on this file on taz in 170 directory within your home directory. So the full path to your program should be `\home\username\170\math.cpp` where username is your username.

Compile this program using the g++ compiler on taz as follows:

```
g++ math.cpp -o math
```

The program should be run from the command line as follows:

```
./math 1 + 20  
1 + 20 = 21
```

```
./math 7 + 9 * 2 / 8  
7 + 9 * 2 / 8 = 3
```

The math expression typed on the command line will only contain +, -, *, and /. Each item operator and operand should be typed on the command line separated by a space so that each one can be treated as a separate c-style string in the argv list. There can be any number of arguments that comprise the math expression entered. The argument pattern will always be “math” operand operator operand operator operand. There will always be at least one operand followed by any number of operator operand pairs.

Your program is not required to honor order of operation rules when evaluating the math expression.

When you complete the assignment simply submit a text file on EASEL to let me know you are done. I will Grade it from your folder on taz.

Extra Credit:

To double the credit you receive on this program make it honor order of operation rules when evaluating the math expression.

To triple the credit you receive on this program make it honor order operation rules and parentheses.

Please add a comment to your program to let me know if you compete either or both of the extra credit opportunities.