Northern Michigan University (Marquette Co, MI)
CS 222-61-21W: Data Structures

Program 1
Due: Wednesday 3 February 2021 10:00 A.M. EST

Adding Fractions

Create a folder called "PG1" in the top level of your CS222-61-21W folder. Place all files pertaining to this assignment into the top level of your PG1 folder. Place a (possibly empty) file called "DONE" into this folder when you are ready to have your programs graded. The only files you need to turn in are the .cpp and the .h files. Please don't turn in any files other than these!!

You should ask the user for the numerators and denominators of two fractions. Your program should add the fractions and print the sum in reduced form. The numerators and denominators are allowed to be very large, too large to fit into an int variable.

Written correctly, your code can be quite short.

For example,

```
Please enter the first numerator:  1
Please enter the first denominator:  6
Please enter the second numerator:  1
Please enter the second denominator:  3
1/6 + 1/3 = 1/2
```

or

```
Please enter the first numerator:
999999999999999999999999999999999999999999999999
Please enter the first denominator:
100000000000000000000000000000000000000000000000
Please enter the second numerator:  1
Please enter the second denominator:
100000000000000000000000000000000000000000000000
999999999999999999999999999999999999999999999999/1000000000000000000000000
0000000000000000000000 +
1/100000000000000000000000000000000000000000000000 = 1/1
```

Your program should be broken up into appropriate methods and commented adequately.