```
1 #include <string>
2
3
CLASS DEFINITION
7
8
9 class fraction {
10 private:
11
     // Internal representation of a fraction as 2 integers
     int n;
12
                                // numerator
13
     int d;
                                // denominator
14
15
     // I put these in the private section because they are
     // internal operations that shouldn't not be part of an
     // interface.
17
18
     void simplify();
     int naiveGCD();
19
     int euclidianGCD(int, int);
20
     int binaryGCD(int, int);
21
22
23 public:
24
     fraction();
                                 // class constructor
     void setFraction(int, int);
25
     void setFraction(fraction);
26
27
     void add(fraction);
28
     void mult(fraction);
29
     void div(fraction);
     void display(void);
30
31 };
32
33
34
35
FUNCTION PROTOTYPES
37 //
39
40 void calculate(std::stringstream &, fraction &);
41 fraction calculateRecursive(std::stringstream &);
42 //fraction calculateRecursive(std::string&, int);
```