

```
1  #include <fstream>
2  #include <math.h>
3  #include <iostream>
4  #include <iomanip>
5  #include <string>
6  using namespace std;
7
8  #include "header.h"
9  #include "implementation.cpp"
10
11 int main() {
12     ifstream inf("inputfile.txt");
13     ofstream outf("outputfile.ot");
14
15     while (!inf.eof()) {
16         RatNum firstfrac;
17         RatNum secondfrac;
18         inf >> firstfrac >> secondfrac;
19         RatNum sumanswer, differenceanswer, productanswer, quotientanswer;
20         sumanswer = firstfrac + secondfrac;
21         differenceanswer = firstfrac - secondfrac;
22         productanswer = firstfrac * secondfrac;
23         quotientanswer = firstfrac / secondfrac;
24         outf << "Calculations for " << firstfrac << " and " << secondfrac << endl;
25         outf << setw(40) << left << "The sum of the two fractions is " << sumanswer <<  ↵
           endl;
26         outf << setw(40) << left << "The difference of the two fractions is " <<  ↵
           differenceanswer << endl;
27         outf << setw(40) << left << "The product of the two fractions is " <<  ↵
           productanswer << endl;
28         outf << setw(40) << left << "The quotient of the two fractions is " <<  ↵
           quotientanswer << endl;
29         outf << endl << endl;
30     }
31
32     system("pause");
33 }
34
```