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// Demonstrate Rational ADT
#include <iostream>
#include "rational.h"

using namespace std;

int main() {
    Rational r;
    Rational s;
    cout << "Enter rational number (a/b): ";
    r.Extract(cin);
    cout << "Enter rational number (a/b): ";
    s.Extract(cin);

    Rational Sum = r.Add(s);
    Rational Product = r.Multiply(s);

    r.Insert(cout);
    cout << " + ";
    s.Insert(cout);
    cout << " = ";
    Sum.Insert(cout);
    cout << endl;

    r.Insert(cout);
    cout << " * ";
    s.Insert(cout);
    cout << " = ";
    Product.Insert(cout);
    cout << endl;

    return 0;
}
```