#include <iostream>

using namespace std;

class Rational {

private:

int numerator;

int denominator;

public:

Rational(int num, int denom) : numerator(num), denominator(denom) {}

Rational add(Rational other) const {

int num = numerator \* other.denominator + other.numerator \* denominator;

int denom = denominator \* other.denominator;

return Rational(num, denom);

}

Rational multiply(Rational other) const {

int num = numerator \* other.numerator;

int denom = denominator \* other.denominator;

return Rational(num, denom);

}

void display() const {

cout << numerator << "/" << denominator;

}

};

int main() {

Rational a(1, 2);

Rational b(2, 3);

Rational sum = a.add(b);

Rational product = a.multiply(b);

cout << "Sum: ";

sum.display();

cout << endl;

cout << "Product: ";

product.display();

cout << endl;

return 0;

}