

```
void display() const {
    cout << "Result: " << real << " + " << imaginary << "i" << endl;
  }
};
Complex operator+(const Complex& c1, const Complex& c2) {
  return Complex(c1.real + c2.real, c1.imaginary + c2.imaginary);
}
Complex operator-(const Complex& c1, const Complex& c2) {
  return Complex(c1.real - c2.real, c1.imaginary - c2.imaginary);
}
Complex Complex::multiply(const Complex& other) const {
  return Complex((real * other.real) - (imaginary * other.imaginary),
          (real * other.imaginary) + (imaginary * other.real));
}
Complex Complex::divide(const Complex& other) const {
  double denominator = (other.real * other.real) + (other.imaginary * other.imaginary);
  return Complex(((real * other.real) + (imaginary * other.imaginary)) / denominator,
          ((imaginary * other.real) - (real * other.imaginary)) / denominator);
}
int main() {
  Complex c1(2.0, 3.0);
  Complex c2(1.0, -2.0);
```

```
Complex result_add = c1 + c2;

Complex result_sub = c1 - c2;

result_add.display();

result_sub.display();

Complex result_mul = c1.multiply(c2);

Complex result_div = c1.divide(c2);

result_mul.display();

result_div.display();

return 0;
```

## Output

}

