class Complex {

int real;

int imaginary;

Complex() {

real = 0;

imaginary = 0;

}

Complex(int a, int b) {

real = a;

imaginary = b;

}

public void add(Complex c1, Complex c2) {

real = c1.real + c2.real;

imaginary = c1.imaginary + c2.imaginary;

}

public void multiply(Complex c1, Complex c2) {

real = c1.real \* c2.real - c1.imaginary \* c2.imaginary;

imaginary = c1.imaginary \* c2.real + c1.real \* c2.imaginary;

}

@Override

public String toString() {

if (imaginary < 0)

return real + "-i" + (-1 \* imaginary);

else

return real + "+i" + imaginary;

}

}

public class q1 {

public static void main(String[] args) {

Complex c1 = new Complex(2, 3);

Complex c2 = new Complex(1, -2);

Complex c3 = new Complex();

c3.add(c1, c2);

System.out.println(c3.toString());

c3.multiply(c1, c2);

System.out.println(c3.toString());

}

}

