**Complex Number**

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Following is the main function we are using internally.

Refer this for completing the ComplexNumbers class.

int main() {

int real1, imaginary1, real2, imaginary2;

cin >> real1 >> imaginary1;

cin >> real2 >> imaginary2;

ComplexNumbers c1(real1, imaginary1);

ComplexNumbers c2(real2, imaginary2);

int choice;

cin >> choice;

if(choice == 1) {

c1.plus(c2);

c1.print();

}

else if(choice == 2) {

c1.multiply(c2);

c1.print();

}

else {

return 0;

}

}

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class ComplexNumbers {

// Complete this class

private:

int a,b;

public:

ComplexNumbers(int a1,int b1){

a=a1;

b=b1;

}

void print(){

cout<<a<<" "<<"+"<<" "<<"i"<<b;

}

void plus(ComplexNumbers c2){

a=a+c2.a;

b=b+c2.b;

}

void multiply(ComplexNumbers c2){

int a2=a;

int b2=b;

a=((a2\*c2.a)-(b2\*c2.b));

b=((b2\*c2.a)+(a2\*c2.b));

//cout<<(b\*c2.a)<<endl;

//cout<<(a\*c2.b)<<endl;

//cout<<b;

}

};