Complex Number Problem Send Feedback

A ComplexNumber class contains two data members : one is the real part (R) and the other is imaginary (I) (both integers).

Implement the Complex numbers class that contains following functions -

1. constructor

You need to create the appropriate constructor.

2. plus -

This function adds two given complex numbers and updates the first complex number.

e.g.

```
if C1 = 4 + i5 and C2 = 3 +i1
C1.plus(C2) results in:
C1 = 7 + i6 and C2 = 3 + i1
```

3. multiply -

This function multiplies two given complex numbers and updates the first complex number.

e.g.

```
if C1 = 4 + i5 and C2 = 1 + i2

C1.multiply(C2) results in:

C1 = -6 + i13 and C2 = 1 + i2
```

4. print -

This function prints the given complex number in the following format:

```
a + ib
```

Note: There is space before and after '+' (plus sign) and no space between 'i' (iota symbol) and b.

Input Format:

```
Line 1: Two integers - real and imaginary part of 1st complex number
Line 2: Two integers - real and imaginary part of 2nd complex number
Line 3: An integer representing choice (1 or 2) (1 represents plus
function will be called and 2 represents multiply function will be called)
```

Output format:

```
Check details of 'print' function given above.
```

Sample Input 1:

1

Sample Output 1:

10 + i12

Sample Input 2:

2

Sample Output 2:

-11 + i58