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## Write a program to implement constructor overloading

```
#include <iostream>
using namespace std;
class complex {
private:
  int x, y;
public:
  complex()
  complex(float a)
    x = y = a;
  complex(float real, float img)
    x = real;
    y = img;
  friend complex sum(complex, complex);
  friend void show(complex);
complex sum(complex c1, complex c2)
  complex c3;
  c3.x = c1.x + c2.x;
  c3.y = c1.y + c2.y;
  return (c3);
void show(complex d)
  cout << d.x << "+I" << d.y << endl;
int main()
  complex A(10.8);
```

```
complex B(30.6);
complex result;
result = sum(A, B);
cout << "A=";
show(A);
cout << "B=";
show(B);
cout << "result=";
show(result);
return (0);
}</pre>
```

## **Output**

```
A=10.8+i4,8
B=30.6+i5.6
result=41.4+i10.4
```