

Data structures\adv_prob2.cpp

```
1  /*WAP to add two complex numbers by passing structure to a function.*/
2
3  #include <iostream>
4
5  using namespace std;
6
7  struct complex {
8      float real, imag;
9  };
10
11 complex addcomplex(const complex& c1, const complex& c2) {
12     complex c3;
13     c3.real = c1.real + c2.real;
14     c3.imag = c1.imag + c2.imag;
15     return c3;
16 }
17
18 int main() {
19     complex c1, c2, c3;
20     cin >> c1.real >> c1.imag;
21     cin >> c2.real >> c2.imag;
22
23     complex sum = addcomplex(c1, c2);
24
25     cout << sum.real << "+" << sum.imag << "i" << endl;
26
27     return 0;
28 }
29
```