

```
1 import math
2 from math import pow
3
4 class Complex(object):
5     def __init__(self, real, imaginary):
6         self.real = real
7         self.imaginary = imaginary
8
9     def __add__(self, no):
10        return Complex(self.real + no.real,
11                        self.imaginary + no.imaginary)
12
13    def __sub__(self, no):
14        return Complex(self.real - no.real,
15                        self.imaginary - no.imaginary)
16
17    def __mul__(self, no):
18        return Complex((self.real * no.real) - (self.imaginary * no.imaginary),
19                        (self.imaginary * no.real) + (self.real * no.imaginary))
20
21    def __truediv__(self, no):
22        r = float(no.real**2 + no.imaginary**2)
23        return Complex((self.real * no.real + self.imaginary * no.imaginary) / r,
24                        (self.imaginary * no.real - self.real * no.imaginary) / r)
25
26    def mod(self):
27        return Complex(pow(self.real**2 + self.imaginary**2, 0.5), 0)
28
29    def __str__(self):
30        if self.imaginary == 0:
31            result = "%.2f+0.00i" % (self.real)
32        elif self.real == 0:
33            if self.imaginary >= 0:
34                result = "0.00+%.2fi" % (self.imaginary)
35            else:
36                result = "0.00-%.2fi" % (abs(self.imaginary))
37        elif self.imaginary > 0:
38            result = "%.2f+%.2fi" % (self.real, self.imaginary)
39        else:
40            result = "%.2f-%.2fi" % (self.real, abs(self.imaginary))
41        return result
42
43 if __name__ == '__main__':
44     c = map(float, input().split())
45     d = map(float, input().split())
46     x = Complex(*c)
47     y = Complex(*d)
48     print(*map(str, [x+y, x-y, x*y, x/y, x.mod(), y.mod()]), sep='\n')
```

Line: 7 Col: 35

## Congratulations

You solved this challenge. Would you like to challenge your friends?



Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

|   |   |   |
|---|---|---|
| 1 | 2 | 1 |
| 2 | 5 | 6 |

Expected Output

|   |             |
|---|-------------|
| 1 | 7.00+7.00i  |
| 2 | -3.00-5.00i |
| 3 | 4.00+17.00i |
| 4 | 0.26-0.11i  |
| 5 | 2.24+0.00i  |