```
/**
     * Class ComplexNumber adds, subtracts, and multiplies complex numbers.
 3
     * @author (Yaw Abaaho)
 4
 5
     * @version (4/22/19)
 6
 7
    public class ComplexNumber
8
9
         double rPart;
10
         double iPart;
11
         public ComplexNumber(double rPart, double iPart)
12
13
             this.rPart = rPart;
14
             this.iPart = iPart;
15
         }
16
17
         public ComplexNumber add(ComplexNumber other)
18
19
             double real = this.rPart + other.getrPart();
20
             double imaginary = this.iPart + other.getiPart();
21
22
             return new ComplexNumber(real, imaginary);
23
         }
24
25
         public ComplexNumber subtract(ComplexNumber other)
26
27
             double real = this.rPart - other.getrPart();
             double imaginary = this.iPart - other.getiPart();
28
29
30
             return new ComplexNumber(real, imaginary);
31
         }
32
33
         public ComplexNumber multiply(ComplexNumber other)
34
         {
35
             double real = this.rPart * other.getrPart();
36
             double imaginary = this.iPart * other.getiPart();
37
38
             return new ComplexNumber(real,imaginary);
39
         }
40
41
         public double getrPart()
42
43
             return rPart;
44
45
46
         public double getiPart()
47
48
             return iPart;
49
         }
50
51
         public String toString()
52
53
             return rPart + "+" + iPart + "i";
54
         }
55
     }
```