```
class ComplexNumber
                             THE KEYWORD class, FOLLOWED
private:
                                 BY THE NAME OF THE CLASS
 float realPart;
 float complexPart;
public:
 ComplexNumber()
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r,double c)
   realPart = r;
   complexPart = c;
  float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
private:
 float realPart;
                           WITHIN CURLY BRACES
 float complexPart;
public:
 ComplexNumber()
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
 float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
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class ComplexNumber
private:
 float realPart;
 float complexPart;
public:
 ComplexNumber()
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
 float getRealPart()
   return realPart;
 float getComplexPart()
                            DON'T FORGET THE SEMI-COLON
    return complexPart;
                               AFTER THE CLOSING BRACE!
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
                             WITHIN THE BODY, SOME
private:
 float realPart;
 float complexPart;
                          DATA (MEMBER VARIABLES)
public:
 ComplexNumber()
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
  float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
                            ALSO WITHIN THE BODY, SOME FUNCTIONS
private:
                         (MEMBER FUNCTIONS, ALSO CALLED METHODS)
 float realPart;
 float complexPart;
p<del>ublic:</del>
 ComplexNumber()
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
 float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
                           A SECTION MARKED private THAT
private:
 float realPart;
 float complexPart;
                          IS FOR MEMBER FUNCTIONS AND DATA
public:
 ComplexNumber()
                            ACCESSIBLE ONLY INSIDE THE CLASS
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
 float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
                    NOTE THE USE OF THE
private:
 float realPart;
 float complexPart;
                    KEYWORD private
public:
 ComplexNumber()
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
 float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
                           A SECTION MARKED public THAT IS
private:
                            FOR MEMBER FUNCTIONS AND DATA
 float realPart;
 float complexPart.
                              ACCESSIBLE TO CODE OUTSIDE THE
public:
 ComplexNumber()
   cout << "No arg-constructor called" << endl; CLASS AS WELL
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
 float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
                   NOTE THE USE OF THE
private:
 float realPart;
 float complexPart:
                     KEYWORV public
public:
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
   complexPart = c;
 float getRealPart()
   return realPart;
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```

```
class ComplexNumber
private:
 float realPart;
 float complexPart;
public:
 ComplexNumber()
   cout << "No arg-constructor called" << endl;</pre>
 void setMemberVariables(double r, double c)
   realPart = r;
                                A CONSTRUCTOR - WHICH
   complexPart = c;
 float getRealPart()
                               HAS THE SAME NAME AS
   return realPart;
                                       THE CLASS ITSELF
 float getComplexPart()
   return complexPart;
 void print()
   cout<<"real = " << realPart << " complex = " << complexPart;</pre>
```