

complex

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# Chapter 1

## Class Index

### 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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## Chapter 2

# File Index

### 2.1 File List

Here is a list of all files with brief descriptions:

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src/ <a href="#">main.cpp</a> . . . . .	17
test/ <a href="#">TestComplex.cpp</a> . . . . .	17



## Chapter 3

# Class Documentation

### 3.1 Complex Class Reference

```
#include <complex.h>
```

#### Public Member Functions

- void `operator+=` (`Complex`)
- void `operator-=` (`Complex`)
- void `operator*=` (`Complex`)
- void `operator/=` (`Complex`)
- void `operator/=` (double)
- `Complex` (double, double)
- `Complex` (double)
- `Complex` ()
- void `operator=` (`Complex`)
- void `operator=` (double)
- `Complex conj` ()
- double `real` ()
- double `imag` ()
- double `abs` ()
- double `arg` ()
- double `norm` ()
- void `print` ()

#### Public Attributes

- double `r`
- double `i`

#### Friends

- double `abs` (`Complex`)
- double `arg` (`Complex`)
- `Complex conj` (`Complex`)
- double `real` (`Complex`)
- double `imag` (`Complex`)
- double `norm` (`Complex`)

- [Complex polar](#) (double, double)
- [Complex exp](#) (Complex)
- [Complex log](#) (Complex)
- [Complex pow](#) (double, Complex)
- [Complex pow](#) (Complex, double)
- [Complex root](#) (Complex, double)
- [Complex pow](#) (Complex, Complex)
- [Complex sqrt](#) (Complex)
- [Complex sin](#) (Complex)
- [Complex cos](#) (Complex)
- [Complex sinh](#) (Complex)
- [Complex cosh](#) (Complex)
- [Complex operator-](#) (Complex)
- [bool operator==](#) (Complex, Complex)
- [bool operator!=](#) (Complex, Complex)
- [ostream & operator<<](#) (ostream &, Complex &)
- [istream & operator>>](#) (istream &, Complex &)
- [Complex operator+](#) (Complex, Complex)
- [Complex operator-](#) (Complex, Complex)
- [Complex operator\\*](#) (Complex, Complex)
- [Complex operator/](#) (Complex, Complex)
- [Complex operator/](#) (Complex, double)
- [Complex operator""\\_i](#) (long double)
- [Complex operator""\\_i](#) (unsigned long long)

### 3.1.1 Detailed Description

Definition at line 9 of file complex.h.

### 3.1.2 Constructor & Destructor Documentation

#### 3.1.2.1 `Complex::Complex ( double _r, double _i )`

Definition at line 74 of file complex.h.

#### 3.1.2.2 `Complex::Complex ( double _r )`

Definition at line 81 of file complex.h.

#### 3.1.2.3 `Complex::Complex ( )`

Definition at line 88 of file complex.h.

### 3.1.3 Member Function Documentation

#### 3.1.3.1 `double Complex::abs ( )`

Definition at line 256 of file complex.h.

References [sqrt\(\)](#).

### 3.1.3.2 double Complex::arg ( )

Definition at line 212 of file complex.h.

### 3.1.3.3 Complex Complex::conj ( )

Definition at line 201 of file complex.h.

### 3.1.3.4 double Complex::imag ( )

Definition at line 234 of file complex.h.

### 3.1.3.5 double Complex::norm ( )

Definition at line 245 of file complex.h.

### 3.1.3.6 void Complex::operator\*= ( Complex rhs )

Definition at line 185 of file complex.h.

### 3.1.3.7 void Complex::operator+= ( Complex rhs )

Definition at line 175 of file complex.h.

### 3.1.3.8 void Complex::operator-= ( Complex rhs )

Definition at line 180 of file complex.h.

### 3.1.3.9 void Complex::operator/= ( Complex rhs )

Definition at line 190 of file complex.h.

### 3.1.3.10 void Complex::operator/= ( double rhs )

Definition at line 195 of file complex.h.

### 3.1.3.11 void Complex::operator= ( Complex rhs )

Definition at line 148 of file complex.h.

References `i`, and `r`.

### 3.1.3.12 void Complex::operator= ( double \_r )

Definition at line 142 of file complex.h.

### 3.1.3.13 void Complex::print ( )

Definition at line 333 of file complex.h.

#### 3.1.3.14 double Complex::real ( )

Definition at line 223 of file complex.h.

### 3.1.4 Friends And Related Function Documentation

#### 3.1.4.1 double abs ( Complex *rhs* ) [friend]

Definition at line 260 of file complex.h.

Referenced by abs(), log(), and operator/().

#### 3.1.4.2 double arg ( Complex *rhs* ) [friend]

Definition at line 217 of file complex.h.

Referenced by arg(), and log().

#### 3.1.4.3 Complex conj ( Complex *rhs* ) [friend]

Definition at line 206 of file complex.h.

Referenced by operator/().

#### 3.1.4.4 Complex cos ( Complex *rhs* ) [friend]

Definition at line 327 of file complex.h.

#### 3.1.4.5 Complex cosh ( Complex *rhs* ) [friend]

Definition at line 317 of file complex.h.

#### 3.1.4.6 Complex exp ( Complex *rhs* ) [friend]

Definition at line 273 of file complex.h.

#### 3.1.4.7 double imag ( Complex *rhs* ) [friend]

Definition at line 239 of file complex.h.

#### 3.1.4.8 Complex log ( Complex *rhs* ) [friend]

Definition at line 279 of file complex.h.

#### 3.1.4.9 double norm ( Complex *rhs* ) [friend]

Definition at line 250 of file complex.h.

Referenced by norm().

#### 3.1.4.10 bool operator!= ( Complex *a*, Complex *b* ) [friend]

Definition at line 167 of file complex.h.

**3.1.4.11 Complex operator""i ( long double *i* ) [friend]**

Definition at line 94 of file complex.h.

**3.1.4.12 Complex operator""i ( unsigned long long *i* ) [friend]**

Definition at line 98 of file complex.h.

**3.1.4.13 Complex operator\* ( Complex *a*, Complex *b* ) [friend]**

Definition at line 123 of file complex.h.

**3.1.4.14 Complex operator+ ( Complex *a*, Complex *b* ) [friend]**

Definition at line 111 of file complex.h.

**3.1.4.15 Complex operator- ( Complex *rhs* ) [friend]**

Definition at line 154 of file complex.h.

**3.1.4.16 Complex operator- ( Complex *a*, Complex *b* ) [friend]**

Definition at line 117 of file complex.h.

**3.1.4.17 Complex operator/ ( Complex *a*, Complex *b* ) [friend]**

Definition at line 129 of file complex.h.

**3.1.4.18 Complex operator/ ( Complex *a*, double *b* ) [friend]**

Definition at line 136 of file complex.h.

**3.1.4.19 ostream& operator<< ( ostream & *os*, Complex & *c* ) [friend]**

Definition at line 343 of file complex.h.

**3.1.4.20 bool operator== ( Complex *a*, Complex *b* ) [friend]**

Definition at line 159 of file complex.h.

**3.1.4.21 istream& operator>> ( istream & *is*, Complex & *c* ) [friend]**

Definition at line 353 of file complex.h.

**3.1.4.22 Complex polar ( double *r*, double *t* ) [friend]**

Definition at line 267 of file complex.h.

#### 3.1.4.23 **Complex** pow ( double *a*, **Complex** *b* ) [friend]

Definition at line 285 of file complex.h.

#### 3.1.4.24 **Complex** pow ( **Complex** *a*, double *b* ) [friend]

Definition at line 290 of file complex.h.

#### 3.1.4.25 **Complex** pow ( **Complex** *a*, **Complex** *b* ) [friend]

Definition at line 295 of file complex.h.

#### 3.1.4.26 double real ( **Complex** *rhs* ) [friend]

Definition at line 228 of file complex.h.

#### 3.1.4.27 **Complex** root ( **Complex** *a*, double *b* ) [friend]

Definition at line 306 of file complex.h.

#### 3.1.4.28 **Complex** sin ( **Complex** *rhs* ) [friend]

Definition at line 322 of file complex.h.

#### 3.1.4.29 **Complex** sinh ( **Complex** *rhs* ) [friend]

Definition at line 312 of file complex.h.

#### 3.1.4.30 **Complex** sqrt ( **Complex** *rhs* ) [friend]

Definition at line 301 of file complex.h.

### 3.1.5 Member Data Documentation

#### 3.1.5.1 double **Complex::i**

Definition at line 13 of file complex.h.

Referenced by conj(), exp(), imag(), operator\*(), operator+(), operator-(), operator/(), operator<<(), operator=(), operator==(), and operator>>().

#### 3.1.5.2 double **Complex::r**

Definition at line 12 of file complex.h.

Referenced by conj(), exp(), operator\*(), operator+(), operator-(), operator/(), operator<<(), operator=(), operator==(), operator>>(), and real().

The documentation for this class was generated from the following file:

- include/complex.h



## 3.2 TestComplex Class Reference

### Public Member Functions

- void [input](#) ()
- string [compare](#) ()
- [Complex](#) [compute](#) ()

### Public Attributes

- [Complex](#) [a](#)
- [Complex](#) [b](#)
- char [operation](#)
- string [result](#)

### 3.2.1 Detailed Description

Definition at line 7 of file TestComplex.cpp.

### 3.2.2 Member Function Documentation

#### 3.2.2.1 string TestComplex::compare ( )

Definition at line 44 of file TestComplex.cpp.

Referenced by [main\(\)](#).

#### 3.2.2.2 [Complex](#) TestComplex::compute ( )

Definition at line 51 of file TestComplex.cpp.

Referenced by [main\(\)](#).

#### 3.2.2.3 void TestComplex::input ( )

Definition at line 19 of file TestComplex.cpp.

Referenced by [main\(\)](#).

### 3.2.3 Member Data Documentation

#### 3.2.3.1 [Complex](#) TestComplex::a

Definition at line 10 of file TestComplex.cpp.

#### 3.2.3.2 [Complex](#) TestComplex::b

Definition at line 10 of file TestComplex.cpp.

#### 3.2.3.3 char TestComplex::operation

Definition at line 11 of file TestComplex.cpp.

Referenced by [main\(\)](#).

#### 3.2.3.4 string TestComplex::result

Definition at line 12 of file TestComplex.cpp.

The documentation for this class was generated from the following file:

- test/[TestComplex.cpp](#)

# Chapter 4

## File Documentation

### 4.1 `include/complex.h` File Reference

```
#include <iostream>
#include <cmath>
#include <string>
```

#### Classes

- class [Complex](#)

#### Functions

- [Complex operator""\\_i](#) (long double \_i)
- [Complex operator""\\_i](#) (unsigned long long \_i)
- [Complex operator+](#) ([Complex](#) a, [Complex](#) b)
- [Complex operator-](#) ([Complex](#) a, [Complex](#) b)
- [Complex operator\\*](#) ([Complex](#) a, [Complex](#) b)
- [Complex operator/](#) ([Complex](#) a, [Complex](#) b)
- [Complex operator/](#) ([Complex](#) a, double b)
- [Complex operator-](#) ([Complex](#) rhs)
- [bool operator==](#) ([Complex](#) a, [Complex](#) b)
- [bool operator!=](#) ([Complex](#) a, [Complex](#) b)
- [Complex conj](#) ([Complex](#) rhs)
- [double arg](#) ([Complex](#) rhs)
- [double real](#) ([Complex](#) rhs)
- [double imag](#) ([Complex](#) rhs)
- [double norm](#) ([Complex](#) rhs)
- [double abs](#) ([Complex](#) rhs)
- [Complex polar](#) (double r, double t)
- [Complex exp](#) ([Complex](#) rhs)
- [Complex log](#) ([Complex](#) rhs)
- [Complex pow](#) (double a, [Complex](#) b)
- [Complex pow](#) ([Complex](#) a, double b)
- [Complex pow](#) ([Complex](#) a, [Complex](#) b)
- [Complex sqrt](#) ([Complex](#) rhs)
- [Complex root](#) ([Complex](#) a, double b)
- [Complex sinh](#) ([Complex](#) rhs)

- [Complex cosh](#) ([Complex](#) rhs)
- [Complex sin](#) ([Complex](#) rhs)
- [Complex cos](#) ([Complex](#) rhs)
- ostream & [operator<<](#) (ostream &os, [Complex](#) &c)
- istream & [operator>>](#) (istream &is, [Complex](#) &c)

#### 4.1.1 Function Documentation

##### 4.1.1.1 double abs ( [Complex](#) rhs )

Definition at line 260 of file complex.h.

References [Complex::abs](#).

Referenced by [operator<<\(\)](#).

##### 4.1.1.2 double arg ( [Complex](#) rhs )

Definition at line 217 of file complex.h.

References [Complex::arg](#).

##### 4.1.1.3 [Complex](#) conj ( [Complex](#) rhs )

Definition at line 206 of file complex.h.

References [Complex::i](#), and [Complex::r](#).

##### 4.1.1.4 [Complex](#) cos ( [Complex](#) rhs )

Definition at line 327 of file complex.h.

References [cosh\(\)](#).

Referenced by [exp\(\)](#), and [polar\(\)](#).

##### 4.1.1.5 [Complex](#) cosh ( [Complex](#) rhs )

Definition at line 317 of file complex.h.

References [exp\(\)](#).

Referenced by [cos\(\)](#).

##### 4.1.1.6 [Complex](#) exp ( [Complex](#) rhs )

Definition at line 273 of file complex.h.

References [cos\(\)](#), [Complex::i](#), [Complex::r](#), and [sin\(\)](#).

Referenced by [cosh\(\)](#), [pow\(\)](#), and [sinh\(\)](#).

##### 4.1.1.7 double imag ( [Complex](#) rhs )

Definition at line 239 of file complex.h.

References [Complex::i](#).

#### 4.1.1.8 **Complex log ( Complex rhs )**

Definition at line 279 of file complex.h.

References `Complex::abs`, and `Complex::arg`.

Referenced by `pow()`.

#### 4.1.1.9 **double norm ( Complex rhs )**

Definition at line 250 of file complex.h.

References `Complex::norm`.

#### 4.1.1.10 **bool operator!= ( Complex a, Complex b )**

Definition at line 167 of file complex.h.

#### 4.1.1.11 **Complex operator""\_i ( long double \_i )**

Definition at line 94 of file complex.h.

#### 4.1.1.12 **Complex operator""\_i ( unsigned long long \_i )**

Definition at line 98 of file complex.h.

#### 4.1.1.13 **Complex operator\* ( Complex a, Complex b )**

Definition at line 123 of file complex.h.

References `Complex::i`, and `Complex::r`.

#### 4.1.1.14 **Complex operator+ ( Complex a, Complex b )**

Definition at line 111 of file complex.h.

References `Complex::i`, and `Complex::r`.

#### 4.1.1.15 **Complex operator- ( Complex a, Complex b )**

Definition at line 117 of file complex.h.

References `Complex::i`, and `Complex::r`.

#### 4.1.1.16 **Complex operator- ( Complex rhs )**

Definition at line 154 of file complex.h.

References `Complex::i`, and `Complex::r`.

#### 4.1.1.17 **Complex operator/ ( Complex a, Complex b )**

Definition at line 129 of file complex.h.

References `Complex::abs`, and `Complex::conj`.

#### 4.1.1.18 **Complex operator/ ( Complex *a*, double *b* )**

Definition at line 136 of file complex.h.

References `Complex::i`, and `Complex::r`.

#### 4.1.1.19 **ostream& operator<< ( ostream & *os*, Complex & *c* )**

Definition at line 343 of file complex.h.

References `abs()`, `Complex::i`, and `Complex::r`.

#### 4.1.1.20 **bool operator== ( Complex *a*, Complex *b* )**

Definition at line 159 of file complex.h.

References `Complex::i`, and `Complex::r`.

#### 4.1.1.21 **istream& operator>> ( istream & *is*, Complex & *c* )**

Definition at line 353 of file complex.h.

References `Complex::i`, and `Complex::r`.

#### 4.1.1.22 **Complex polar ( double *r*, double *t* )**

Definition at line 267 of file complex.h.

References `cos()`, and `sin()`.

#### 4.1.1.23 **Complex pow ( double *a*, Complex *b* )**

Definition at line 285 of file complex.h.

References `exp()`, and `log()`.

Referenced by `main()`, `root()`, and `sqrt()`.

#### 4.1.1.24 **Complex pow ( Complex *a*, double *b* )**

Definition at line 290 of file complex.h.

References `exp()`, and `log()`.

#### 4.1.1.25 **Complex pow ( Complex *a*, Complex *b* )**

Definition at line 295 of file complex.h.

References `exp()`, and `log()`.

#### 4.1.1.26 **double real ( Complex *rhs* )**

Definition at line 228 of file complex.h.

References `Complex::r`.

#### 4.1.1.27 **Complex root ( Complex *a*, double *b* )**

Definition at line 306 of file complex.h.

References pow().

Referenced by main().

#### 4.1.1.28 **Complex sin ( Complex *rhs* )**

Definition at line 322 of file complex.h.

References sinh().

Referenced by exp(), and polar().

#### 4.1.1.29 **Complex sinh ( Complex *rhs* )**

Definition at line 312 of file complex.h.

References exp().

Referenced by sin().

#### 4.1.1.30 **Complex sqrt ( Complex *rhs* )**

Definition at line 301 of file complex.h.

References pow().

Referenced by Complex::abs().

## 4.2 src/main.cpp File Reference

```
#include <iostream>
#include <cmath>
#include "complex.h"
```

### Functions

- int [main](#) ()

#### 4.2.1 Function Documentation

##### 4.2.1.1 int main ( )

Definition at line 6 of file main.cpp.

References pow(), and root().

## 4.3 test/TestComplex.cpp File Reference

```
#include <iostream>
```

```
#include <string>
#include "complex.h"
```

## Classes

- class [TestComplex](#)

## Functions

- int [main](#) ()

### 4.3.1 Function Documentation

#### 4.3.1.1 int main ( )

Definition at line 61 of file TestComplex.cpp.

References [TestComplex::compare\(\)](#), [TestComplex::compute\(\)](#), [TestComplex::input\(\)](#), and [TestComplex::operation](#).



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