montecarlo

Generated by Doxygen 1.8.1.2

Mon Jan 19 2015 19:13:37

Contents

1	Clas	s Index			1
	1.1	Class I	_ist		1
2	File	Index			3
	2.1	File Lis	st		3
3	Clas	s Docu	mentation		5
	3.1	Comple	ex Class R	Reference	5
		3.1.1	Detailed	Description	6
		3.1.2	Construc	tor & Destructor Documentation	6
			3.1.2.1	Complex	6
			3.1.2.2	Complex	6
			3.1.2.3	Complex	6
		3.1.3	Member	Function Documentation	6
			3.1.3.1	abs	6
			3.1.3.2	arg	7
			3.1.3.3	conj	7
			3.1.3.4	imag	7
			3.1.3.5	norm	7
			3.1.3.6	operator*=	7
			3.1.3.7	operator+=	7
			3.1.3.8	operator-=	7
			3.1.3.9	operator/=	7
			3.1.3.10	operator/=	7
			3.1.3.11	operator=	7
			3.1.3.12	operator=	8
			3.1.3.13	print	8
			3.1.3.14	real	8
		3.1.4	Friends A	And Related Function Documentation	8
			3.1.4.1	abs	8
			3.1.4.2	arg	8
			3143	coni	۵

ii CONTENTS

		3.1.4.4	cos	8
		3.1.4.5	cosh	8
		3.1.4.6	exp	8
		3.1.4.7	imag	8
		3.1.4.8	log	9
		3.1.4.9	norm	9
		3.1.4.10	operator!=	9
		3.1.4.11	operator""""_i	9
		3.1.4.12	operator""""_i	9
		3.1.4.13	operator*	9
		3.1.4.14	operator+	9
		3.1.4.15	operator	9
		3.1.4.16	operator	9
		3.1.4.17	operator/	9
		3.1.4.18	operator/	9
		3.1.4.19	operator<<	9
		3.1.4.20	operator==	10
		3.1.4.21	operator>>	10
		3.1.4.22	polar	10
		3.1.4.23	pow	10
		3.1.4.24	pow	10
		3.1.4.25	pow	10
		3.1.4.26	real	10
		3.1.4.27	root	10
		3.1.4.28	sin	10
		3.1.4.29	sinh	10
		3.1.4.30	sqrt	10
	3.1.5	Member	Data Documentation	10
		3.1.5.1	1	10
		3.1.5.2	$r \ldots \ldots \ldots \ldots \ldots$	11
3.2	monted	carlo Class	s Reference	11
	3.2.1	Detailed	Description	11
	3.2.2	Member	Function Documentation	11
		3.2.2.1	Pi_Estamtion	11
	3.2.3	Member	Data Documentation	11
		3.2.3.1	Count_inCircle	11
		3.2.3.2	inCircle	11
		3.2.3.3	Number_of_point	12
		3.2.3.4	pi_Approx	12
		3.2.3.5	simple_point	12

CONTENTS

1	File	Docum	tation 15	3
	4.1	include	omplex.h File Reference	3
		4.1.1	Function Documentation	4
			l.1.1.1 abs	4
			l.1.1.2 arg	4
			l.1.1.3 conj	4
			l.1.1.4 cos	4
			l.1.1.5 cosh	4
			l.1.1.6 exp	4
			l.1.1.7 imag	4
			l.1.1.8 log	5
			l.1.1.9 norm	5
			l.1.1.10 operator!=	5
			l.1.1.11 operator""""_i	5
			l.1.1.12 operator""""_i	5
			l.1.1.13 operator*	5
			l.1.1.14 operator+	5
			l.1.1.15 operator	5
			l.1.1.16 operator	5
			l.1.1.17 operator/	5
			k.1.1.18 operator/	6
			k.1.1.19 operator<< 10	6
			l.1.1.20 operator==	6
			k.1.1.21 operator>>	6
			l.1.1.22 polar	6
			l.1.1.23 pow	6
			l.1.1.24 pow	6
			k.1.1.25 pow	6
			l.1.1.26 real	6
			k.1.1.27 root	7
			k.1.1.28 sin	7
			k.1.1.29 sinh	7
			k.1.1.30 sqrt	7
	4.2	plot/Pl	m File Reference	7
		4.2.1	Function Documentation	8
			l.2.1.1 F	8
			l.2.1.2 figure	8
			i.2.1.3 figure	8
			i.2.1.4 if	8
			I.2.1.5 movie2avi	8

iv CONTENTS

		4.2.1.6	plo	ot .																 	18
		4.2.1.7	plo	ot .														 		 	18
		4.2.1.8	titl	е.														 		 	18
		4.2.1.9	titl	е.																 	18
		4.2.1.10	X																	 	18
		4.2.1.11	xla	abe	١.															 	18
	4.2.2	Variable	Doc	um	ent	atic	n													 	18
		4.2.2.1	all	١																 	18
		4.2.2.2	i																	 	18
		4.2.2.3	N																	 	18
		4.2.2.4	r																	 	18
		4.2.2.5	X																	 	18
4.3	src/ma	in.cpp File	e Re	fere	enc	е.												 		 	19
	4.3.1	Function	Do	cum	nen	tati	on											 		 	19
		4011		oin																	10

Chapter 1

Class Index

4	4		NI -		1	: -4
1	. 1	(มล	22		IST

Here are the classes, structs, unions and interfaces with brief descriptions:																					
Complex																					 !
montecarlo																					 - 11

2 Class Index

Chapter 2

File Index

2	1	مانا	1	ict
_		 пе		ısı

Here is a	list of al	I files with	brief	descriptions
i ici c is a	iiot oi ai	I IIICO WILLI	DITICI	acocriptions

include/complex.h	13
plot/Plot.m	17
src/main.cpp	19

File Index

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.

References i, and r.

3.1.2.2 Complex::Complex (double $_r$)

Definition at line 81 of file complex.h.

References i, and r.

3.1.2.3 Complex::Complex ()

Definition at line 88 of file complex.h.

References i, and r.

3.1.3 Member Function Documentation

3.1.3.1 double Complex::abs ()

Definition at line 256 of file complex.h.

References i, r, and sqrt().

```
3.1.3.2 double Complex::arg ( )
Definition at line 212 of file complex.h.
References i, and r.
3.1.3.3 Complex Complex::conj ( )
Definition at line 201 of file complex.h.
References i, and r.
3.1.3.4 double Complex::imag ( )
Definition at line 234 of file complex.h.
References i.
3.1.3.5 double Complex::norm ( )
Definition at line 245 of file complex.h.
References i, and r.
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, i, r, and r.
```

```
3.1.3.12 void Complex::operator= ( double _r )
Definition at line 142 of file complex.h.
References i, and r.
3.1.3.13 void Complex::print ( )
Definition at line 333 of file complex.h.
References i, and r.
3.1.3.14 double Complex::real ( )
Definition at line 223 of file complex.h.
References r.
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-(), oper

3.1.5.2 double Complex::r

Definition at line 12 of file complex.h.

Referenced by conj(), exp(), operator*(), operator-(), operator-(

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

• include/complex.h

3.2 montecarlo Class Reference

Public Member Functions

• void Pi_Estamtion (int)

Public Attributes

- int Number of point
- int Count inCircle = 0
- vector < Complex > simple_point
- vector< double > pi_Approx
- vector< bool > inCircle

3.2.1 Detailed Description

Definition at line 12 of file main.cpp.

3.2.2 Member Function Documentation

3.2.2.1 void montecarlo::Pi_Estamtion (int Number_of_point)

Definition at line 23 of file main.cpp.

References abs(), and i.

Referenced by main().

3.2.3 Member Data Documentation

3.2.3.1 int montecarlo::Count_inCircle = 0

Definition at line 16 of file main.cpp.

3.2.3.2 vector<bool> montecarlo::inCircle

Definition at line 19 of file main.cpp.

3.2.3.3 int montecarlo::Number_of_point

Definition at line 15 of file main.cpp.

 ${\bf 3.2.3.4} \quad {\bf vector}{<}{\bf double}{>}\ {\bf montecarlo::pi_Approx}$

Definition at line 18 of file main.cpp.

3.2.3.5 vector<Complex> montecarlo::simple_point

Definition at line 17 of file main.cpp.

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

• src/main.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)

14 File Documentation

- 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 << (), and montecarlo::Pi_Estamtion().

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.
```

16 File Documentation

```
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 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().
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 plot/Plot.m File Reference

Functions

```
figure (1)
plot (1:N, x(3,:))
title ('pi estimate against number of rain drops')
xlabel ('Number of rain drops')
figure (2)
if (x(4, i)==1) plot(x(1
x (2, i)
else plot (x(1, i), x(2, i),'.')
end title ([int2str(i),'drops', int2str(x(5, i)),'landed in circle, estimating pi as ', num2str(x(3, i))])
F (i)
end movie2avi (F,'Pi_Estimation.avi','compression','None','fps', 50)
```

Variables

```
close all
x = load('Pi_Approx.txt')
N = length(x)
hold on for i
```

• r

18 File Documentation

4.2.1 Function Documentation

```
4.2.1.1 F(i)
4.2.1.2 figure (1)
4.2.1.3 figure (2)
4.2.1.4 if (x(4,i) ==1)
4.2.1.5 end movie2avi (F, 'Pi_Estimation.avi', 'compression', 'None', 'fps', 50)
4.2.1.6 plot (1:N, x(3,:))
4.2.1.7 else plot (x(1,i), x(2,i), '.')
4.2.1.8 title ('pi estimate against number of rain drops')
4.2.1.9 end title ()
4.2.1.10 x(2,i)
4.2.1.11 xlabel ('Number of rain drops')
```

4.2.2 Variable Documentation

4.2.2.1 clear all

Definition at line 1 of file Plot.m.

4.2.2.2 i

Initial value:

```
1:N figure(2)
```

Definition at line 12 of file Plot.m.

Referenced by Complex::abs(), Complex::arg(), Complex::Complex(), Complex::conj(), Complex::imag(), Complex::norm(), Complex::pint().

```
4.2.2.3 N = length(x)
```

Definition at line 4 of file Plot.m.

4.2.2.4 r

Definition at line 15 of file Plot.m.

Referenced by Complex::abs(), Complex::arg(), Complex::Complex(), Complex::conj(), Complex::norm(), Complex::operator=(), Complex::print(), and Complex::real().

```
4.2.2.5 x = load('Pi\_Approx.txt')
```

Definition at line 3 of file Plot.m.

4.3 src/main.cpp File Reference

```
#include <iostream>
#include <random>
#include <vector>
#include <cmath>
#include <fstream>
#include "complex.h"
```

Classes

· class montecarlo

Functions

• int main ()

4.3.1 Function Documentation

```
4.3.1.1 int main ( )
```

Definition at line 43 of file main.cpp.

References montecarlo::Pi_Estamtion().

Index

abs	imag, 14
Complex, 6, 8	log, 14
complex.h, 14	norm, 15
all	operator<<, 16
Plot.m, 18	operator>>, 16
arg	operator*, 15
Complex, 6, 8	operator+, 15
complex.h, 14	operator-, 15
	operator/, 15
Complex, 5	operator==, 16
abs, 6, 8	operator""_i, 15
arg, 6, 8	polar, 16
Complex, 6	pow, 16
conj, 7, 8	real, 16
cos, 8	root, 16
cosh, 8	sin, 17
exp, 8	sinh, 17
i, 10	sqrt, 17
imag, 7, 8	conj
log, 8	Complex, 7, 8
norm, 7, 9	complex.h, 14
operator<<, 9	cos
operator>>, 10	Complex, 8
operator*, 9	complex.h, 14
operator*=, 7	cosh
operator+, 9	Complex, 8
operator+=, 7	complex, 6
operator-, 9	Count inCircle
operator-=, 7	montecarlo, 11
operator/, 9	montedano, Ti
operator/=, 7	exp
operator=, 7	Complex, 8
operator==, 9	complex.h, 14
operator""_i, 9	GGp.G, 7.1
polar, 10	F
pow, 10	Plot.m, 18
print, 8	figure
r, 11	Plot.m, 18
real, 8, 10	
root, 10	i
sin, 10	Complex, 10
sinh, 10	Plot.m, 18
sqrt, 10	if
complex.h	Plot.m, 18
abs, 14	imag
arg, 14	Complex, 7, 8
conj, 14	complex.h, 14
cos, 14	inCircle
cosh, 14	montecarlo, 11
exp, 14	include/complex.h, 13
1 /	

INDEX 21

log	complex.h, 15
Complex, 8	, ,
complex.h, 14	pi_Approx
,	montecarlo, 12
main	Pi_Estamtion
main.cpp, 19	montecarlo, 11
main.cpp	plot
main, 19	Plot.m, 18
montecarlo, 11	Plot.m
Count_inCircle, 11	all, 18
inCircle, 11	F, 18
Number_of_point, 11	figure, 18
pi_Approx, 12	i, 18
Pi_Estamtion, 11	if, 18
simple_point, 12	movie2avi, 18
movie2avi	N, 18
Plot.m, 18	plot, 18
	r, 18
N	title, 18
Plot.m, 18	x, 18
norm	xlabel, 18
Complex, 7, 9	plot/Plot.m, 17
complex.h, 15	polar
Number_of_point	Complex, 10
montecarlo, 11	complex.h, 16
	pow
operator<<	Complex, 10
Complex, 9	complex.h, 16
complex.h, 16	print
operator>>	•
Complex, 10	Complex, 8
complex.h, 16	r
operator*	Complex, 11
Complex, 9	Plot.m, 18
complex.h, 15	real
operator*=	
Complex, 7	Complex, 8, 10
operator+	complex.h, 16
Complex, 9	root
complex.h, 15	Complex, 10
operator+=	complex.h, 16
Complex, 7	simple point
operator-	simple_point
Complex, 9	montecarlo, 12
complex.h, 15	-
operator-=	Complex, 10
Complex, 7	complex.h, 17
operator/	sinh
Complex, 9	Complex, 10
complex, 5	complex.h, 17
operator/=	sqrt
	Complex, 10
Complex, 7	complex.h, 17
operator=	src/main.cpp, 19
Complex, 7	20
operator==	title
Complex, 9	Plot.m, 18
complex.h, 16	
operator""_i	X
Complex, 9	Plot.m, 18

22 INDEX

xlabel

Plot.m, 18