My Project

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Chapter 1

File Index

1.1 File List

Here is a list of all documented files with brief descriptions:

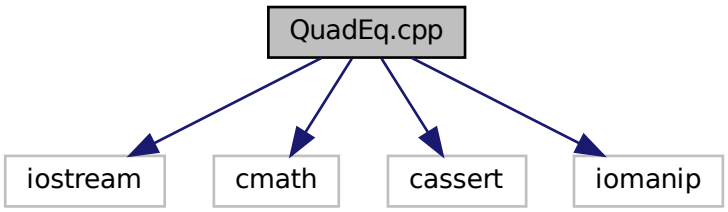
Chapter 2

File Documentation

2.1 QuadEq.cpp File Reference

```
#include <iostream>
#include <cmath>
#include <cassert>
#include <iomanip>
```

Include dependency graph for QuadEq.cpp:



Functions

- bool isZero (double x)
- int SolveLinEq (double b, double c, double &root)
- int SolveQuadEq (double a, double b, double c, double &root1, double &root2)
- void **TestSolveLinEq** ()
- void **TestSolveQuadEq** ()
- int **main** ()

Variables

- double **constants::eps** = 0.000001
- int **constants::INF** = -1
- int **constants::precision** = 6

2.1.1 Function Documentation

2.1.1.1 isZero()

```
bool isZero (
            double x )
```

Checks double value for proximity to zero

Parameters

in	*x*	some double value

Returns

true if the argument is close to zero

2.1.1.2 SolveLinEq()

```
int SolveLinEq (
            double b,
            double c,
            double & root )
```

Solves a linear equation bx + c = 0

Parameters

in	*b*	b-coefficient
in	*c*	c-coefficient
out	*root*	Reference to root

Returns

Number of roots

Note

In case of infinite number of roots, returns constants::INF

2.1.1.3 SolveQuadEq()

```
int SolveQuadEq (
            double a,
            double b,
            double c,
            double & root1,
            double & root2 )
```

Solves a square equation ax^2 + bx + c = 0

Parameters

in	*a*	a-coefficient
in	*b*	b-coefficient
in	*c*	c-coefficient
out	*root1*	Reference to first root
out	*root2*	Reference to second root

Returns

Number of roots

Note

In case of infinite number of roots, returns constants::INF

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