SqEq

1.1

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Chapter 1

File Index

1.1 File List

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

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	File with most important SqEq functions	 3
SqEq.h		 ??

2 File Index

Chapter 2

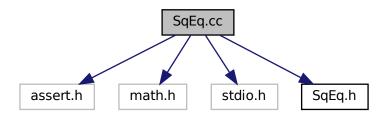
File Documentation

2.1 SqEq.cc File Reference

File with most important SqEq functions.

```
#include <assert.h>
#include <math.h>
#include <stdio.h>
#include "SqEq.h"
```

Include dependency graph for SqEq.cc:



Functions

- bool read_coeffs (const char *prompt, double coeffs[COEFF_NUM])

 Reading 3 coefficients from stdin.
- int solve_sqeq (const double coeffs[COEFF_NUM], double results[MAX_ROOT_NUM])
 Solving square equation.
- int solve_linear (double b, double c, double $*x_ptr$)
- int is_equal (double n1, double n2)

Solving linear equation.

Compares two double numbers.

void print_res (int res_type, const double results[MAX_ROOT_NUM])

Print squaree equations roots.

int ret_code (int res_type)

Generate program return code.

4 File Documentation

2.1.1 Detailed Description

File with most important SqEq functions.

Author

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2.1.2 Function Documentation

2.1.2.1 is_equal()

```
int is_equal ( \label{eq:constraint} \mbox{double $n1$,} \\ \mbox{double $n2$ )}
```

Compares two double numbers.

Parameters

in	n1	1st num
in	n2	2nd num

Returns

int

2.1.2.2 print_res()

Print squaree equations roots.

Parameters

in	res_type	defines error/number of roots
in	results	roots

2.1.2.3 read_coeffs()

Reading 3 coefficients from stdin.

Parameters

in	prompt	message to user
out	coeffs	array for coeffs, length must be >= 3

Returns

true if all OK false on error

2.1.2.4 ret_code()

Generate program return code.

Parameters

in	res_type	value returned by solve function
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Returns

int

2.1.2.5 solve_linear()

```
int solve_linear ( \label{eq:condition} \text{double } b, \\ \text{double } c, \\ \text{double } * x\_ptr \ )
```

Solving linear equation.

Parameters

Gene∂ated b	y DX <u>ox</u> Aÿdglén	result pointer
in	С	free member
in	b	coeff on x

File Documentation

Returns

resutl type

2.1.2.6 solve_sqeq()

Solving square equation.

Parameters

in	coeffs	array with coefficients, length must must be $>=3$
out	results	array with roots, length must must be >= 2

Returns

result type

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