

LYSK Lygiagrečiųjų skaičių sparčioji paieška (LSSP)

420

Generated by Doxygen 1.9.1

1 Lygiagretieji skaičiavimai	1
2 Class Index	3
2.1 Class List	3
3 Class Documentation	5
3.1 Sieve Class Reference	5
3.1.1 Detailed Description	5
3.1.2 Constructor & Destructor Documentation	5
3.1.2.1 Sieve()	5
3.1.3 Member Function Documentation	6
3.1.3.1 getnumprimes()	6
3.1.3.2 getprimes()	6
3.1.3.3 getprimevector()	6
Index	7

Chapter 1

Lygiagretieji skaičiavimai

Chapter 2

Class Index

2.1 Class List

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

Sieve	A class to hold our sieve from an arbitrary starting point	5
-----------------------	--	-------------------

Chapter 3

Class Documentation

3.1 Sieve Class Reference

A class to hold our sieve from an arbitrary starting point.

```
#include <sieve.h>
```

Public Member Functions

- [Sieve](#) (std::int64_t end, std::int64_t start=3, const std::vector< std::int64_t > &prime_list={})
Generate a sieve.
- void [process_sieve](#) ()
Process the sieve. Can be called separately, but nothing will break if you don't.
- std::int64_t [getnumprimes](#) ()
Get the number of primes we found in the sieve.
- const std::int64_t * [getprimes](#) ()
Get primes.
- const std::vector< std::int64_t > & [getprimevector](#) ()
get primes, but a vector.

3.1.1 Detailed Description

A class to hold our sieve from an arbitrary starting point.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 Sieve()

```
Sieve::Sieve (  
    std::int64_t end,  
    std::int64_t start = 3,  
    const std::vector< std::int64_t > & prime_list = {} )
```

Generate a sieve.

Parameters

<i>end</i>	What number do we wish to end our sieve on. Must be odd.
<i>start</i>	What number do we wish to start our sieve on. Must be odd and default to 3.
<i>prime_list</i>	A vector of initial primes to mark. This is used in the segmented sieve.

3.1.3 Member Function Documentation

3.1.3.1 getnumprimes()

```
std::int64_t Sieve::getnumprimes ( )
```

Get the number of primes we found in the sieve.

Returns

number of primes in sieve.

3.1.3.2 getprimes()

```
const std::int64_t * Sieve::getprimes ( )
```

Get primes.

Returns

Primes.

3.1.3.3 getprimevector()

```
const std::vector< std::int64_t > & Sieve::getprimevector ( )
```

get primes, but a vector.

Returns

the same primes, but a vector.

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

- sieve.h
- sieve.cpp

Index

getnumprimes

Sieve, [6](#)

getprimes

Sieve, [6](#)

getprimevector

Sieve, [6](#)

Sieve, [5](#)

getnumprimes, [6](#)

getprimes, [6](#)

getprimevector, [6](#)

Sieve, [5](#)