

Objektinio programavimo projektas

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

zmogus	11
studentas	7

Chapter 2

Class Index

2.1 Class List

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

studentas	7
zmogus	11

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

errorfinder.cpp	19
errorfinder.h	21
filegenerator.cpp	22
filegenerator.h	23
functions.cpp	23
functions.h	26
main.cpp	29
mytests.cpp	30
studentas.cpp	31
studentas.h	31
zmogus.h	33
build/CMakeFiles/3.29.2/CompilerIdC/CMakeCCompilerId.c	13
build/CMakeFiles/3.29.2/CompilerIdCXX/CMakeCXXCompilerId.cpp	16
build/CMakeFiles/mytests.dir/ mytests.cpp.o.d	19
build/CMakeFiles/mytests.dir/ studentas.cpp.o.d	19
build/googletest/googmock/CMakeFiles/gmock.dir/src/ gmock-all.cc.o.d	19
build/googletest/googmock/CMakeFiles/gmock_main.dir/src/ gmock_main.cc.o.d	19
build/googletest/googletest/CMakeFiles/gtest.dir/src/ gtest-all.cc.o.d	19
build/googletest/googletest/CMakeFiles/gtest_main.dir/src/ gtest_main.cc.o.d	19

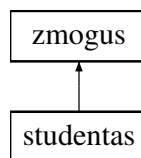
Chapter 4

Class Documentation

4.1 studentas Class Reference

```
#include <studentas.h>
```

Inheritance diagram for studentas:



Public Member Functions

- [studentas](#) ()
- [studentas](#) (const string &v, const string &p, const vector< int > &nd, int e, double g)
- [~studentas](#) ()
- [studentas](#) (const [studentas](#) &kit)
- [studentas](#) & [operator=](#) (const [studentas](#) &kit)
- [studentas](#) ([studentas](#) &&kit) noexcept
- [studentas](#) & [operator=](#) ([studentas](#) &&kit) noexcept
- string [getVardas](#) () const
- string [getPavarde](#) () const
- vector< int > [getNdrez](#) () const
- int [getErez](#) () const
- double [getGbalas](#) () const
- void [setVardas](#) (const string &v)
- void [setPavarde](#) (const string &p)
- void [setNdrez](#) (const vector< int > &nd)
- void [setErez](#) (int e)
- void [setGbalas](#) (double g)
- void [sortNdrez](#) ()

Public Member Functions inherited from [zmogus](#)

- virtual [~zmogus](#) ()=default

Public Attributes

- string [line](#)
- char [budas](#)

Private Attributes

- string [vardas](#)
- string [pavarde](#)
- vector< int > [ndrez](#)
- int [erez](#)
- double [gbalas](#)

Friends

- std::istream & [operator>>](#) (std::istream &in, [studentas](#) &kit)
- std::ostream & [operator<<](#) (std::ostream &out, const [studentas](#) &kit)

Additional Inherited Members

Protected Member Functions inherited from [zmogus](#)

- [zmogus](#) ()

4.1.1 Constructor & Destructor Documentation

4.1.1.1 [studentas\(\)](#) [1/4]

```
studentas::studentas ( )
```

4.1.1.2 [studentas\(\)](#) [2/4]

```
studentas::studentas (
    const string & v,
    const string & p,
    const vector< int > & nd,
    int e,
    double g )
```

4.1.1.3 [~studentas\(\)](#)

```
studentas::~~studentas ( )
```

4.1.1.4 [studentas\(\)](#) [3/4]

```
studentas::studentas (
    const studentas & kit )
```


4.1.1.5 studentas() [4/4]

```
studentas::studentas (  
    studentas && kit ) [noexcept]
```

4.1.2 Member Function Documentation

4.1.2.1 getErez()

```
int studentas::getErez ( ) const [inline]
```

4.1.2.2 getGbalas()

```
double studentas::getGbalas ( ) const [inline]
```

4.1.2.3 getNdrez()

```
vector< int > studentas::getNdrez ( ) const [inline]
```

4.1.2.4 getPavarde()

```
string studentas::getPavarde ( ) const [inline]
```

4.1.2.5 getVardas()

```
string studentas::getVardas ( ) const [inline]
```

4.1.2.6 operator=() [1/2]

```
studentas & studentas::operator= (  
    const studentas & kit )
```

4.1.2.7 operator=() [2/2]

```
studentas & studentas::operator= (  
    studentas && kit ) [noexcept]
```

4.1.2.8 setErez()

```
void studentas::setErez (  
    int e ) [inline]
```

4.1.2.9 setGbalas()

```
void studentas::setGbalas (
    double g ) [inline]
```

4.1.2.10 setNdrez()

```
void studentas::setNdrez (
    const vector< int > & nd ) [inline]
```

4.1.2.11 setPavarde()

```
void studentas::setPavarde (
    const string & p ) [inline]
```

4.1.2.12 setVardas()

```
void studentas::setVardas (
    const string & v ) [inline]
```

4.1.2.13 sortNdrez()

```
void studentas::sortNdrez ( ) [inline]
```

4.1.3 Friends And Related Symbol Documentation

4.1.3.1 operator<<

```
std::ostream & operator<< (
    std::ostream & out,
    const studentas & kit ) [friend]
```

4.1.3.2 operator>>

```
std::istream & operator>> (
    std::istream & in,
    studentas & kit ) [friend]
```

4.1.4 Member Data Documentation

4.1.4.1 budas

```
char studentas::budas
```

4.1.4.2 erez

```
int studentas::erez [private]
```

4.1.4.3 gbalas

```
double studentas::gbalas [private]
```

4.1.4.4 line

```
string studentas::line
```

4.1.4.5 ndrez

```
vector<int> studentas::ndrez [private]
```

4.1.4.6 pavarde

```
string studentas::pavarde [private]
```

4.1.4.7 vardas

```
string studentas::vardas [private]
```

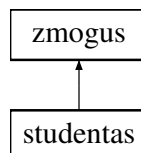
The documentation for this class was generated from the following files:

- [studentas.h](#)
- [studentas.cpp](#)

4.2 zmogus Class Reference

```
#include <zmogus.h>
```

Inheritance diagram for zmogus:



Public Member Functions

- virtual [~zmogus](#) ()=default

Protected Member Functions

- [zmogus\(\)](#)

4.2.1 Constructor & Destructor Documentation

4.2.1.1 ~zmogus()

```
virtual zmogus::~~zmogus ( ) [virtual], [default]
```

4.2.1.2 zmogus()

```
zmogus::zmogus ( ) [inline], [protected]
```

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

- [zmogus.h](#)

Chapter 5

File Documentation

5.1 build/CMakeFiles/3.29.2/CompilerIdC/CMakeCCompilerId.c File Reference

Macros

- `#define __has_include(x) 0`
- `#define COMPILER_ID ""`
- `#define STRINGIFY_HELPER(X) #X`
- `#define STRINGIFY(X) STRINGIFY_HELPER(X)`
- `#define PLATFORM_ID`
- `#define ARCHITECTURE_ID`
- `#define DEC(n)`
- `#define HEX(n)`
- `#define C_VERSION`

Functions

- `int main (int argc, char *argv[])`

Variables

- `char const * info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"`
- `char const * info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"`
- `char const * info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"`
- `const char * info_language_standard_default`
- `const char * info_language_extensions_default`

5.1.1 Macro Definition Documentation

5.1.1.1 __has_include

```
#define __has_include(  
    x ) 0
```

5.1.1.2 ARCHITECTURE_ID

```
#define ARCHITECTURE_ID
```

5.1.1.3 C_VERSION

```
#define C_VERSION
```

5.1.1.4 COMPILER_ID

```
#define COMPILER_ID ""
```

5.1.1.5 DEC

```
#define DEC(  
    n )
```

Value:

```
('0' + ((n) / 10000000) % 10), \
('0' + ((n) / 1000000) % 10), \
('0' + ((n) / 100000) % 10), \
('0' + ((n) / 10000) % 10), \
('0' + ((n) / 1000) % 10), \
('0' + ((n) / 100) % 10), \
('0' + ((n) / 10) % 10), \
('0' + ((n) % 10))
```

5.1.1.6 HEX

```
#define HEX(  
    n )
```

Value:

```
('0' + ((n) >> 28 & 0xF)), \
('0' + ((n) >> 24 & 0xF)), \
('0' + ((n) >> 20 & 0xF)), \
('0' + ((n) >> 16 & 0xF)), \
('0' + ((n) >> 12 & 0xF)), \
('0' + ((n) >> 8 & 0xF)), \
('0' + ((n) >> 4 & 0xF)), \
('0' + ((n) & 0xF))
```

5.1.1.7 PLATFORM_ID

```
#define PLATFORM_ID
```

5.1.1.8 STRINGIFY

```
#define STRINGIFY(  
    X ) STRINGIFY_HELPER(X)
```

5.1.1.9 STRINGIFY_HELPER

```
#define STRINGIFY_HELPER(  
    X ) #X
```

5.1.2 Function Documentation

5.1.2.1 main()

```
int main (  
    int argc,  
    char * argv[] )
```

5.1.3 Variable Documentation

5.1.3.1 info_arch

```
char const* info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"
```

5.1.3.2 info_compiler

```
char const* info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"
```

5.1.3.3 info_language_extensions_default

```
const char* info_language_extensions_default
```

Initial value:

```
= "INFO" ":" "extensions_default["
```

```
    "OFF"  
    "]"
```

5.1.3.4 info_language_standard_default

```
const char* info_language_standard_default
```

Initial value:

```
=  
    "INFO" ":" "standard_default[" C_VERSION "]"
```

5.1.3.5 info_platform

```
char const* info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"
```

5.2 build/CMakeFiles/3.29.2/CompilerIdCXX/CMakeCXXCompilerId.cpp

File Reference

Macros

- `#define __has_include(x) 0`
- `#define COMPILER_ID ""`
- `#define STRINGIFY_HELPER(X) #X`
- `#define STRINGIFY(X) STRINGIFY_HELPER(X)`
- `#define PLATFORM_ID`
- `#define ARCHITECTURE_ID`
- `#define DEC(n)`
- `#define HEX(n)`
- `#define CXX_STD __cplusplus`

Functions

- `int main (int argc, char *argv[])`

Variables

- `char const * info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"`
- `char const * info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"`
- `char const * info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"`
- `const char * info_language_standard_default`
- `const char * info_language_extensions_default`

5.2.1 Macro Definition Documentation

5.2.1.1 __has_include

```
#define __has_include(  
    x ) 0
```

5.2.1.2 ARCHITECTURE_ID

```
#define ARCHITECTURE_ID
```

5.2.1.3 COMPILER_ID

```
#define COMPILER_ID ""
```

5.2.1.4 CXX_STD

```
#define CXX_STD __cplusplus
```


5.2.1.5 DEC

```
#define DEC(  
    n )
```

Value:

```
('0' + ((n) / 10000000) % 10), \
('0' + ((n) / 1000000) % 10), \
('0' + ((n) / 100000) % 10), \
('0' + ((n) / 10000) % 10), \
('0' + ((n) / 1000) % 10), \
('0' + ((n) / 100) % 10), \
('0' + ((n) / 10) % 10), \
('0' + ((n) % 10))
```

5.2.1.6 HEX

```
#define HEX(  
    n )
```

Value:

```
('0' + ((n) >> 28 & 0xF)), \
('0' + ((n) >> 24 & 0xF)), \
('0' + ((n) >> 20 & 0xF)), \
('0' + ((n) >> 16 & 0xF)), \
('0' + ((n) >> 12 & 0xF)), \
('0' + ((n) >> 8 & 0xF)), \
('0' + ((n) >> 4 & 0xF)), \
('0' + ((n) & 0xF))
```

5.2.1.7 PLATFORM_ID

```
#define PLATFORM_ID
```

5.2.1.8 STRINGIFY

```
#define STRINGIFY(  
    X ) STRINGIFY_HELPER(X)
```

5.2.1.9 STRINGIFY_HELPER

```
#define STRINGIFY_HELPER(  
    X ) #X
```

5.2.2 Function Documentation

5.2.2.1 main()

```
int main (  
    int argc,  
    char * argv[] )
```

5.2.3 Variable Documentation

5.2.3.1 info_arch

```
char const* info_arch = "INFO" ":" "arch[" ARCHITECTURE_ID "]"
```

5.2.3.2 info_compiler

```
char const* info_compiler = "INFO" ":" "compiler[" COMPILER_ID "]"
```

5.2.3.3 info_language_extensions_default

```
const char* info_language_extensions_default
```

Initial value:

```
= "INFO" ":" "extensions_default["
```

```
"OFF"
```

```
"]"
```

5.2.3.4 info_language_standard_default

```
const char* info_language_standard_default
```

Initial value:

```
= "INFO" ":" "standard_default["
```

```
"98"
```

```
"]"
```

5.2.3.5 info_platform

```
char const* info_platform = "INFO" ":" "platform[" PLATFORM_ID "]"
```

5.3 build/CMakeFiles/mytests.dir/mytests.cpp.o.d File Reference

5.4 build/CMakeFiles/mytests.dir/studentas.cpp.o.d File Reference

5.5 build/googletest/googlemock/CMakeFiles/gmock.dir/src/gmock-all.cc.o.d File Reference

5.6 build/googletest/googlemock/CMakeFiles/gmock_↵ main.dir/src/gmock_main.cc.o.d File Reference

5.7 build/googletest/googletest/CMakeFiles/gtest.dir/src/gtest-all.cc.o.d File Reference

5.8 build/googletest/googletest/CMakeFiles/gtest_↵ main.dir/src/gtest_main.cc.o.d File Reference

5.9 errorfinder.cpp File Reference

```
#include "errorfinder.h"  
#include "studentas.h"
```

Functions

- int ivedbudpatikra ()
- char budaspatikra ()
- char dskaitpatikra ()
- int studskpatikra ()
- char isvedbudpatikra ()
- int erezpatikra ()
- char rikbudpatikra ()
- int pazymiopatikra ()
- char skirstymopatikra ()
- char fgeneravimopatikra ()
- int skirststratpat ()

5.9.1 Function Documentation

5.9.1.1 budaspatikra()

```
char budaspatikra ( )
```

5.9.1.2 dskaitpatikra()

```
char dskaitpatikra ( )
```

5.9.1.3 erezpatikra()

```
int erezpatikra ( )
```

5.9.1.4 fgeneravimopatikra()

```
char fgeneravimopatikra ( )
```

5.9.1.5 isvedbudpatikra()

```
char isvedbudpatikra ( )
```

5.9.1.6 ivedbudpatikra()

```
int ivedbudpatikra ( )
```

5.9.1.7 pazymiopatikra()

```
int pazymiopatikra ( )
```

5.9.1.8 rikbudpatikra()

```
char rikbudpatikra ( )
```

5.9.1.9 skirststratpat()

```
int skirststratpat ( )
```

5.9.1.10 skirstymopatikra()

```
char skirstymopatikra ( )
```

5.9.1.11 studskpatikra()

```
int studskpatikra ( )
```

5.10 errorfinder.h File Reference

```
#include <iostream>
#include <limits>
```

Functions

- int [ivedbudpatikra](#) ()
- char [budaspatikra](#) ()
- char [dskaitpatikra](#) ()
- int [studskpatikra](#) ()
- char [isvedbudpatikra](#) ()
- int [erezpatikra](#) ()
- char [rikbudpatikra](#) ()
- int [pazymiopatikra](#) ()
- char [skirstymopatikra](#) ()
- int [skirststratpat](#) ()
- char [fgeneravimopatikra](#) ()

5.10.1 Function Documentation

5.10.1.1 budaspatikra()

```
char budaspatikra ( )
```

5.10.1.2 dskaitpatikra()

```
char dskaitpatikra ( )
```

5.10.1.3 erezpatikra()

```
int erezpatikra ( )
```

5.10.1.4 fgeneravimopatikra()

```
char fgeneravimopatikra ( )
```

5.10.1.5 isvedbudpatikra()

```
char isvedbudpatikra ( )
```

5.10.1.6 ivedbudpatikra()

```
int ivedbudpatikra ( )
```

5.10.1.7 pazymiopatikra()

```
int pazymiopatikra ( )
```

5.10.1.8 rikbudpatikra()

```
char rikbudpatikra ( )
```

5.10.1.9 skirststratpat()

```
int skirststratpat ( )
```

5.10.1.10 skirstymopatikra()

```
char skirstymopatikra ( )
```

5.10.1.11 studskpatikra()

```
int studskpatikra ( )
```

5.11 errorfinder.h

[Go to the documentation of this file.](#)

```
00001 #include <iostream>
00002 #include <limits>
00003
00004 using namespace std;
00005
00006 int ivedbudpatikra();
00007 char budaspatikra();
00008 char dskaitpatikra();
00009 int studskpatikra();
00010 char isvedbudpatikra();
00011 int erezpatikra();
00012 char rikbudpatikra();
00013 int pazymiopatikra();
00014 char skirstymopatikra();
00015 int skirststratpat();
00016 char fgeneravimopatikra();
```

5.12 filegenerator.cpp File Reference

```
#include "filegenerator.h"
#include "errorfinder.h"
#include "functions.h"
#include "studentas.h"
```

Functions

- int [failugeneravimas](#) ()

5.12.1 Function Documentation

5.12.1.1 failugeneravimas()

```
int failugeneravimas ( )
```

5.13 filegenerator.h File Reference

```
#include <iostream>
#include <iomanip>
#include <fstream>
#include <sstream>
#include <chrono>
```

Functions

- int [failugeneravimas](#) ()

5.13.1 Function Documentation

5.13.1.1 failugeneravimas()

```
int failugeneravimas ( )
```

5.14 filegenerator.h

[Go to the documentation of this file.](#)

```
00001 #include<iostream>
00002 #include<iomanip>
00003 #include<fstream>
00004 #include <sstream>
00005 #include <chrono>
00006
00007
00008 using namespace std;
00009 using namespace std::chrono;
00010
00011 int failugeneravimas();
```

5.15 functions.cpp File Reference

```
#include "functions.h"
#include "errorfinder.h"
#include "studentas.h"
```

Functions

- void `skaitymasisfailo` (vector< `studentas` > &A, char `budas`, char `ivedbudas`)
- void `irasymasifaila` (vector< `studentas` > &A, char `budas`)
- void `isvedimas` (vector< `studentas` > &A, char `budas`)
- void `pazymiuiaved` (`studentas` &`new_studentas`, char `budas`, int `ivedbudas`)
- void `skaiciavimas` (`studentas` &`new_studentas`, char `budas`)
- bool `rikiavimasgbalas` (const `studentas` &a, const `studentas` &b)
- bool `rikiavimasvardas` (const `studentas` &a, const `studentas` &b)
- bool `rikiavimaspavarde` (const `studentas` &a, const `studentas` &b)
- void `rikiavimas` (vector< `studentas` > &A)
- void `skirstymas1` (vector< `studentas` > &A, vector< `studentas` > &K, vector< `studentas` > &V)
- void `skirstymas2` (vector< `studentas` > &A, vector< `studentas` > &V)
- void `skirstymas3` (vector< `studentas` > &A, vector< `studentas` > &K, vector< `studentas` > &V)
- void `irasymasifailaK` (vector< `studentas` > &A, vector< `studentas` > &K, vector< `studentas` > &V, char `budas`, int `skistr`)

Variables

- int `tlaikas` = 0

5.15.1 Function Documentation

5.15.1.1 irasymasifaila()

```
void irasymasifaila (
    vector< studentas > & A,
    char budas )
```

5.15.1.2 irasymasifailaK()

```
void irasymasifailaK (
    vector< studentas > & A,
    vector< studentas > & K,
    vector< studentas > & V,
    char budas,
    int skistr )
```

5.15.1.3 isvedimas()

```
void isvedimas (
    vector< studentas > & A,
    char budas )
```

5.15.1.4 pazymiuiaved()

```
void pazymiuiaved (
    studentas & new_studentas,
    char budas,
    int ivedbudas )
```


5.15.1.5 rikiavimas()

```
void rikiavimas (
    vector< studentas > & A )
```

5.15.1.6 rikiavimasgbalas()

```
bool rikiavimasgbalas (
    const studentas & a,
    const studentas & b )
```

5.15.1.7 rikiavimaspavarde()

```
bool rikiavimaspavarde (
    const studentas & a,
    const studentas & b )
```

5.15.1.8 rikiavimasvardas()

```
bool rikiavimasvardas (
    const studentas & a,
    const studentas & b )
```

5.15.1.9 skaiciavimas()

```
void skaiciavimas (
    studentas & new_studentas,
    char budas )
```

5.15.1.10 skaitymasisfailo()

```
void skaitymasisfailo (
    vector< studentas > & A,
    char budas,
    char ivedbudas )
```

5.15.1.11 skirstymas1()

```
void skirstymas1 (
    vector< studentas > & A,
    vector< studentas > & K,
    vector< studentas > & V )
```

5.15.1.12 skirstymas2()

```
void skirstymas2 (
    vector< studentas > & A,
    vector< studentas > & V )
```

5.15.1.13 skirstymas3()

```
void skirstymas3 (
    vector< studentas > & A,
    vector< studentas > & K,
    vector< studentas > & V )
```

5.15.2 Variable Documentation

5.15.2.1 tlaikas

```
int tlaikas = 0
```

5.16 functions.h File Reference

```
#include <iostream>
#include <iomanip>
#include <limits>
#include <algorithm>
#include <vector>
#include <cstdlib>
#include <ctime>
#include <string>
#include <fstream>
#include <sstream>
#include <chrono>
#include "studentas.h"
```

Functions

- void [skaitymasifailo](#) (vector< [studentas](#) > &A, char budas, char ivedbudas)
- void [isvedimas](#) (vector< [studentas](#) > &A, char budas)
- void [pazymiui](#) ([studentas](#) &new_studentas, char budas, int ivedbudas)
- void [skaiciavimas](#) ([studentas](#) &new_studentas, char budas)
- void [irasymasifaila](#) (vector< [studentas](#) > &A, char budas)
- bool [rikiavimasgbalas](#) (const [studentas](#) &a, const [studentas](#) &b)
- bool [rikiavimasvardas](#) (const [studentas](#) &a, const [studentas](#) &b)
- bool [rikiavimasparvarda](#) (const [studentas](#) &a, const [studentas](#) &b)
- void [rikiavimas](#) (vector< [studentas](#) > &A)
- void [skirstymas1](#) (vector< [studentas](#) > &A, vector< [studentas](#) > &K, vector< [studentas](#) > &V)
- void [skirstymas2](#) (vector< [studentas](#) > &A, vector< [studentas](#) > &V)
- void [skirstymas3](#) (vector< [studentas](#) > &A, vector< [studentas](#) > &K, vector< [studentas](#) > &V)
- void [irasymasifailaK](#) (vector< [studentas](#) > &A, vector< [studentas](#) > &K, vector< [studentas](#) > &V, char budas, int skistr)

Variables

- int [tlaikas](#)

5.16.1 Function Documentation

5.16.1.1 irasymasifaila()

```
void irasymasifaila (
    vector< studentas > & A,
    char budas )
```

5.16.1.2 irasymasifailaK()

```
void irasymasifailaK (
    vector< studentas > & A,
    vector< studentas > & K,
    vector< studentas > & V,
    char budas,
    int skistr )
```

5.16.1.3 isvedimas()

```
void isvedimas (
    vector< studentas > & A,
    char budas )
```

5.16.1.4 pazymiuived()

```
void pazymiuived (
    studentas & new_studentas,
    char budas,
    int ivedbudas )
```

5.16.1.5 rikiavimas()

```
void rikiavimas (
    vector< studentas > & A )
```

5.16.1.6 rikiavimasgbalas()

```
bool rikiavimasgbalas (
    const studentas & a,
    const studentas & b )
```

5.16.1.7 rikiavimaspavarde()

```
bool rikiavimaspavarde (
    const studentas & a,
    const studentas & b )
```

5.16.1.8 rikiavimasvardas()

```
bool rikiavimasvardas (
    const studentas & a,
    const studentas & b )
```

5.16.1.9 skaiciavimas()

```
void skaiciavimas (
    studentas & new_studentas,
    char budas )
```

5.16.1.10 skaitymasisfailo()

```
void skaitymasisfailo (
    vector< studentas > & A,
    char budas,
    char ivedbudas )
```

5.16.1.11 skirstymas1()

```
void skirstymas1 (
    vector< studentas > & A,
    vector< studentas > & K,
    vector< studentas > & V )
```

5.16.1.12 skirstymas2()

```
void skirstymas2 (
    vector< studentas > & A,
    vector< studentas > & V )
```

5.16.1.13 skirstymas3()

```
void skirstymas3 (
    vector< studentas > & A,
    vector< studentas > & K,
    vector< studentas > & V )
```

5.16.2 Variable Documentation

5.16.2.1 tlaikas

```
int tlaikas [extern]
```

5.17 functions.h

[Go to the documentation of this file.](#)

```
00001 #ifndef FUNCTIONS_H
00002 #define FUNCTIONS_H
00003
00004 #include <iostream>
00005 #include <iomanip>
00006 #include <limits>
00007 #include <algorithm>
00008 #include <vector>
00009 #include <cstdlib>
00010 #include <ctime>
00011 #include <string>
00012 #include <fstream>
00013 #include <sstream>
00014 #include <chrono>
00015 #include "studentas.h"
00016
00017 using namespace std;
00018 using namespace std::chrono;
00019
00020 // struct studentas
00021 // {
00022 //     string vardas;
00023 //     string pavarde;
00024 //     vector<int> ndrez; //sudaromas vektorius
00025 //     int erez;
00026 //     double gbalas;
00027 // };
00028
00029 extern int tlaikas;
00030
00031 void skaitymasisfailo(vector<studentas> &A, char budas, char ivedbudas);
00032 void isvedimas(vector<studentas> &A, char budas);
00033 void pazymiuived(studentas &new_studentas, char budas, int ivedbudas);
00034 void skaiciavimas(studentas &new_studentas, char budas);
00035 void irasymasifaila(vector<studentas> &A, char budas);
00036 bool riklavimasgbalas(const studentas &a, const studentas &b);
00037 bool rikiavimasvardas(const studentas &a, const studentas &b);
00038 bool rikiavimaspavarde(const studentas &a, const studentas &b);
00039 void riklavimas(vector<studentas> &A);
00040 void skirstymas1(vector<studentas> &A, vector<studentas> &K, vector<studentas> &V);
00041 void skirstymas2(vector<studentas> &A, vector<studentas> &V);
00042 void skirstymas3(vector<studentas> &A, vector<studentas> &K, vector<studentas> &V);
00043 void irasymasifailaK(vector<studentas> &A, vector<studentas> &K, vector<studentas> &V, char budas, int skistr);
00044
00045 #endif // FUNCTIONS_H
```

5.18 main.cpp File Reference

```
#include "functions.h"
#include "errorfinder.h"
#include "filegenerator.h"
#include "studentas.h"
```

Functions

- void [testCopyConstruction](#) ()
- void [testMoveConstruction](#) ()
- void [testCopyAssignment](#) ()
- void [testMoveAssignment](#) ()
- int [main](#) ()

5.18.1 Function Documentation

5.18.1.1 [main\(\)](#)

```
int main ( )
```

5.18.1.2 [testCopyAssignment\(\)](#)

```
void testCopyAssignment ( )
```

5.18.1.3 [testCopyConstruction\(\)](#)

```
void testCopyConstruction ( )
```

5.18.1.4 [testMoveAssignment\(\)](#)

```
void testMoveAssignment ( )
```

5.18.1.5 [testMoveConstruction\(\)](#)

```
void testMoveConstruction ( )
```

5.19 mytests.cpp File Reference

```
#include "studentas.h"  
#include "gtest/gtest.h"
```

Functions

- [TEST](#) (StudentasTest, ConstructorAndGetters)
- [TEST](#) (StudentasTest, Setters)
- [TEST](#) (StudentasTest, SortNdrez)
- int [main](#) (int argc, char **argv)

5.19.1 Function Documentation

5.19.1.1 main()

```
int main (
    int argc,
    char ** argv )
```

5.19.1.2 TEST() [1/3]

```
TEST (
    StudentasTest ,
    ConstructorAndGetters )
```

5.19.1.3 TEST() [2/3]

```
TEST (
    StudentasTest ,
    Setters )
```

5.19.1.4 TEST() [3/3]

```
TEST (
    StudentasTest ,
    SortNdrez )
```

5.20 studentas.cpp File Reference

```
#include "studentas.h"
#include <utility>
```

5.21 studentas.h File Reference

```
#include "zmogus.h"
#include "errorfinder.h"
#include <iostream>
#include <iomanip>
#include <vector>
#include <string>
#include <algorithm>
#include <sstream>
```

Classes

- class [studentas](#)

5.22 studentas.h

[Go to the documentation of this file.](#)

```

00001 #ifndef STUDENTAS_H
00002 #define STUDENTAS_H
00003
00004 #include "zmogus.h"
00005 #include "errorfinder.h"
00006 #include <iostream>
00007 #include <iomanip>
00008 #include <vector>
00009 #include <string>
00010 #include <algorithm>
00011 #include <sstream>
00012
00013 using namespace std;
00014
00015 class studentas : public zmogus {
00016 private:
00017     string vardas;
00018     string pavarde;
00019     vector<int> ndrez;
00020     int erez;
00021     double gbalas;
00022     // interfeisas
00023 public:
00024     string line;
00025     char budas;
00026     studentas(); // default konstruktorius
00027     studentas(const string &v, const string &p, const vector<int> &nd, int e, double g);
00028
00029     ~studentas(); // destruktorius
00030
00031     studentas(const studentas &kit); // copy konstruktorius
00032
00033     studentas &operator=(const studentas &kit); // priskyrimo operatorius
00034
00035     studentas(studentas &&kit) noexcept; // move konstruktorius
00036
00037     studentas &operator=(studentas &&kit) noexcept;
00038
00039 friend std::istream &operator>(std::istream &in, studentas &kit){
00040     kit.ndrez.clear();
00041     int sum = 0;
00042
00043     if(kit.budas == 'f'){
00044         istringstream my_buffer(kit.line);
00045
00046         my_buffer >> kit.vardas >> kit.pavarde;
00047         int pazymys;
00048         while (my_buffer >> pazymys)
00049         {
00050             kit.ndrez.push_back(pazymys); // prisikiriamas elSementas
00051             sum += pazymys;
00052         }
00053
00054         if (!kit.ndrez.empty()) {
00055             kit.erez = kit.ndrez.back();
00056             kit.ndrez.pop_back();
00057             sum -= kit.erez;
00058         }
00059         kit.gbalas = sum;
00060         if(kit.budas == 'r')
00061         {
00062             cout << "Iveskite studento varda ir pavarde arba „11“, jeigu norite uzbaigti studentu vedima: ";
00063             in >> kit.vardas;
00064             if (kit.vardas != "11")
00065             {
00066                 in >> kit.pavarde;
00067             }
00068         }
00069         return in;
00070     }
00071
00072     friend std::ostream &operator<<(std::ostream &out, const studentas &kit)
00073     {

```



```

00074         out << setw(25) << left << kit.vardas << setw(25) << left << kit.pavarde << setprecision(3) << left <<
kit.gbalas << '\n';
00075         return out;
00076     }
00077
00078     string getVardas() const { return vardas; } // get'eriai
00079     string getPavarde() const { return pavarde; } // get'eriai
00080     vector<int> getNdrez() const { return ndrez; }
00081     int getErez() const { return erez; }
00082     double getGbalas() const { return gbalas; } // get'eriai
00083
00084     void setVardas(const string &v) { vardas = v; }
00085     void setPavarde(const string &p) { pavarde = p; }
00086     void setNdrez(const vector<int> &nd) { ndrez = nd; }
00087     void setErez(int e) { erez = e; }
00088     void setGbalas(double g) { gbalas = g; } // set'eriai
00089
00090     void sortNdrez() { sort(ndrez.begin(), ndrez.end()); }
00091
00092 };
00093
00094
00095 #endif // STUDENTAS_H

```

5.23 zmogus.h File Reference

```

#include <iostream>
#include <vector>
#include <string>

```

Classes

- class [zmogus](#)

5.24 zmogus.h

[Go to the documentation of this file.](#)

```

00001 #ifndef ZMOGUS_H
00002 #define ZMOGUS_H
00003
00004 #include <iostream>
00005 #include <vector>
00006 #include <string>
00007
00008 using namespace std;
00009
00010 class zmogus {
00011 public:
00012     virtual ~zmogus() = default;
00013 protected:
00014     zmogus() {}
00015 };
00016
00017 #endif // ZMOGUS_H

```


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