My Project

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Chapter 1

README

//UŽDUOTIS// Vietoje klasės Studentai reikia sukurti dvi: bazinę (abstrakti) klasę, skirtą bendrai aprašyti žmogų ir tuomet iš jos išvestinę (derived) klasę - Studentas.

Abstrakčioji klasė - tai negalima sukurti žmogaus tipo objektų, o tik objektus gautus iš išvestinių klasių (pvz⇔ : Studentas)

Klasė Zmogus:

Pataisyta klasė Studentas:

Patikriname, ar programa veikia:

Patikriname, ar veikia įvestis/išvestis:

Pasirenku 1 - duomenų įvedimas ranka:

Pasirenku 5 - duomenų nuskaitymą iš failo:

Viskas veikia!

2 README

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

duomenys	,
Zmogus	16
Studentas	. 10

4 Hierarchical Index

Chapter 3

Class Index

3.1 Class List

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

duomenys								 									 					9
Studentas								 			 						 					10
7modus																						16

6 Class Index

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

C:/Darbai/2_OP/2_OP/functions.cpp	19
C:/Darbai/2_OP/2_OP/functions.h	21
C:/Darbai/2_OP/2_OP/masyvai.cpp	24
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C:/Darbai/2 OP/2 OP/vektoriai.cpp	28

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Chapter 5

Class Documentation

5.1 duomenys Struct Reference

Public Member Functions

• duomenys ()

Public Attributes

- string vard
- string pav
- int * nd
- int egzaminas
- int nd_kiekis
- double gal_vid
- double gal_bal
- double gal_med

5.1.1 Constructor & Destructor Documentation

5.1.1.1 duomenys()

```
duomenys::duomenys ( ) [inline]
```

5.1.2 Member Data Documentation

5.1.2.1 egzaminas

int duomenys::egzaminas

5.1.2.2 gal_bal

double duomenys::gal_bal

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5.1.2.3 gal_med

double duomenys::gal_med

5.1.2.4 gal_vid

double duomenys::gal_vid

5.1.2.5 nd

int* duomenys::nd

5.1.2.6 nd_kiekis

int duomenys::nd_kiekis

5.1.2.7 pav

string duomenys::pav

5.1.2.8 vard

string duomenys::vard

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

• C:/Darbai/2_OP/2_OP/masyvai.cpp

5.2 Studentas Class Reference

#include <studentas.h>

Inheritance diagram for Studentas:



Public Member Functions

- bool operator< (const Studentas &other) const
- Studentas ()
- Studentas (const std::string &vardas, const std::string &pav, int egzaminas, const std::vector< int > &nd, int nd_kiekis, double gal_vid, double gal_med)
- ∼Studentas ()
- Studentas (const Studentas &other)
- Studentas & operator= (const Studentas &other)
- Studentas (Studentas &&other) noexcept
- Studentas & operator= (Studentas &&other) noexcept
- const std::string & getVardas () const override
- · const std::string & getPavarde () const override
- const std::vector< int > & getNd () const
- int getEgzaminas () const
- · double getGalutinisVid () const
- · double getGalutinisBal () const
- · double getGalutineMed () const
- int getNdKiekis () const
- void setVardas (const std::string &vardas) override
- · void setPavarde (const std::string &pavarde) override
- void setNd (const std::vector< int > &nd)
- void setEgzaminas (int egzaminas)
- void setGalutinisVid (double gal vid)
- void setGalutinisBal (double gal_bal)
- void setGalutineMed (double gal_med)
- void setNdKiekis (int nd_kiekis)
- void addnd (int nd)
- void skaiciuotiGalutiniBal ()

Private Attributes

- std::vector< int > nd_
- int egzaminas_
- · int nd_kiekis_
- double gal_vid_
- double gal bal
- double gal med

Friends

- std::istream & operator>> (std::istream &in, Studentas &studentas)
- std::ostream & operator<< (std::ostream &out, const Studentas &studentas)

Additional Inherited Members

Protected Member Functions inherited from Zmogus

- Zmogus ()=default
- Zmogus (const std::string &vardas, const std::string &pav)
- virtual ~Zmogus ()

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Protected Attributes inherited from Zmogus

```
std::string vardas_std::string pav_
```

5.2.1 Constructor & Destructor Documentation

```
5.2.1.1 Studentas() [1/4]
```

```
Studentas::Studentas ( ) [inline]
```

5.2.1.2 Studentas() [2/4]

5.2.1.3 ∼Studentas()

```
Studentas::\simStudentas ( ) [inline]
```

5.2.1.4 Studentas() [3/4]

5.2.1.5 Studentas() [4/4]

5.2.2 Member Function Documentation

5.2.2.1 addnd()

5.2.2.2 getEgzaminas()

```
int Studentas::getEgzaminas ( ) const [inline]
```

5.2.2.3 getGalutineMed()

```
double Studentas::getGalutineMed ( ) const [inline]
```

5.2.2.4 getGalutinisBal()

```
double Studentas::getGalutinisBal ( ) const [inline]
```

5.2.2.5 getGalutinisVid()

```
double Studentas::getGalutinisVid ( ) const [inline]
```

5.2.2.6 getNd()

```
\verb|const| \verb|std::vector<| int > & Studentas::getNd () | const [inline]| \\
```

5.2.2.7 getNdKiekis()

```
int Studentas::getNdKiekis ( ) const [inline]
```

5.2.2.8 getPavarde()

```
const std::string & Studentas::getPavarde ( ) const [inline], [override], [virtual]

Implements Zmogus.
```

5.2.2.9 getVardas()

```
const std::string & Studentas::getVardas ( ) const [inline], [override], [virtual]
Implements Zmogus.
```

5.2.2.10 operator<()

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```
5.2.2.11 operator=() [1/2]
```

5.2.2.13 setEgzaminas()

5.2.2.14 setGalutineMed()

```
void Studentas::setGalutineMed ( \mbox{double } \mbox{\it gal\_med} \mbox{\it )} \mbox{\it [inline]}
```

5.2.2.15 setGalutinisBal()

5.2.2.16 setGalutinisVid()

```
void Studentas::setGalutinisVid ( \mbox{double } gal\_vid \mbox{ ) [inline]} \label{eq:condition}
```

5.2.2.17 setNd()

5.2.2.18 setNdKiekis()

5.2.2.19 setPavarde()

Reimplemented from **Zmogus**.

5.2.2.20 setVardas()

Reimplemented from **Zmogus**.

5.2.2.21 skaiciuotiGalutiniBal()

```
void Studentas::skaiciuotiGalutiniBal ( ) [inline]
```

5.2.3 Friends And Related Symbol Documentation

5.2.3.1 operator <<

5.2.3.2 operator>>

5.2.4 Member Data Documentation

5.2.4.1 egzaminas_

```
int Studentas::egzaminas_ [private]
```

5.2.4.2 gal_bal_

```
double Studentas::gal_bal_ [private]
```

5.2.4.3 gal_med_

```
double Studentas::gal_med_ [private]
```

5.2.4.4 gal_vid_

```
double Studentas::gal_vid_ [private]
```

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5.2.4.5 nd_

```
std::vector<int> Studentas::nd_ [private]
```

5.2.4.6 nd_kiekis_

```
int Studentas::nd_kiekis_ [private]
```

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

• C:/Darbai/2_OP/2_OP/studentas.h

5.3 Zmogus Class Reference

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

Inheritance diagram for Zmogus:



Public Member Functions

- virtual const std::string & getVardas () const =0
- virtual const std::string & getPavarde () const =0
- virtual void setVardas (const std::string &vardas)
- virtual void setPavarde (const std::string &pavarde)

Protected Member Functions

- Zmogus ()=default
- Zmogus (const std::string &vardas, const std::string &pav)
- virtual ~Zmogus ()

Protected Attributes

- std::string vardas_
- std::string pav_

5.3.1 Constructor & Destructor Documentation

5.3.1.1 Zmogus() [1/2]

```
Zmogus::Zmogus ( ) [protected], [default]
```

5.3.1.2 Zmogus() [2/2]

virtual Zmogus::~Zmogus () [inline], [protected], [virtual]

5.3.2 Member Function Documentation

5.3.2.1 getPavarde()

```
virtual const std::string & Zmogus::getPavarde ( ) const [pure virtual]
Implemented in Studentas.
```

5.3.2.2 getVardas()

```
virtual const std::string & Zmogus::getVardas ( ) const [pure virtual]
Implemented in Studentas.
```

5.3.2.3 setPavarde()

Reimplemented in Studentas.

5.3.2.4 setVardas()

Reimplemented in Studentas.

5.3.3 Member Data Documentation

```
5.3.3.1 pav_
```

```
std::string Zmogus::pav_ [protected]
```

5.3.3.2 vardas_

```
std::string Zmogus::vardas_ [protected]
```

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

• C:/Darbai/2_OP/2_OP/studentas.h

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Chapter 6

File Documentation

6.1 C:/Darbai/2_OP/2_OP/functions.cpp File Reference

```
#include "functions.h"
```

Functions

- void func_input_hands ()
- void func_generate_numbers ()
- void func_generate_names ()
- void func_input_file ()
- void generate_new_file ()
- void use_existing_file ()
- void read_list ()
- void read_deque ()
- void use_existing_file_2 ()
- void read_list_2 ()
- void read_deque_2 ()
- void use_existing_file_3 ()
- void read_list_3 ()
- void read_deque_3 ()
- void func_generate ()
- void func tests ()
- void func_input_output ()

6.1.1 Function Documentation

6.1.1.1 func_generate()

```
void func_generate ( )
```

6.1.1.2 func_generate_names()

```
void func_generate_names ( )
```

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6.1.1.3 func_generate_numbers() void func_generate_numbers () $\,$ 6.1.1.4 func_input_file() void func_input_file () 6.1.1.5 func_input_hands() void func_input_hands () 6.1.1.6 func_input_output() void func_input_output () 6.1.1.7 func_tests() void func_tests () 6.1.1.8 generate_new_file() void generate_new_file () 6.1.1.9 read_deque() void read_deque () 6.1.1.10 read_deque_2() void read_deque_2 () 6.1.1.11 read_deque_3() void read_deque_3 () 6.1.1.12 read_list() void read_list ()

6.1.1.13 read_list_2() void read_list_2 () 6.1.1.14 read_list_3() void read_list_3 () 6.1.1.15 use_existing_file() void use_existing_file () 6.1.1.16 use_existing_file_2() void use_existing_file_2 ()

void use_existing_file_3 ()

6.2 C:/Darbai/2_OP/2_OP/functions.h File Reference

```
#include <iostream>
#include <vector>
#include <algorithm>
#include <numeric>
#include <iomanip>
#include <ctime>
#include <fstream>
#include <istream>
#include <sstream>
#include <stdexcept>
#include <bits/stdc++.h>
#include <chrono>
#include <list>
#include <deque>
#include "studentas.h"
#include <cassert>
```

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Functions

- void func_input_hands ()
- void func_generate_numbers ()
- void func_generate_names ()
- void func_input_file ()
- void func_generate ()
- void generate_new_file ()
- void use_existing_file ()
- void read_list ()
- void read_deque ()
- void use_existing_file_2 ()
- void read_list_2 ()
- void read_deque_2 ()
- void use_existing_file_3 ()
- void read_list_3 ()
- void read deque 3 ()
- void func_tests ()
- void func_input_output ()

6.2.1 Function Documentation

6.2.1.1 func_generate()

```
void func_generate ( )
```

6.2.1.2 func_generate_names()

```
void func_generate_names ( )
```

6.2.1.3 func_generate_numbers()

```
void func_generate_numbers ( )
```

6.2.1.4 func_input_file()

```
void func_input_file ( )
```

6.2.1.5 func_input_hands()

```
void func_input_hands ( )
```

6.2.1.6 func_input_output()

```
void func_input_output ( )
```

```
6.2.1.7 func_tests()
void func_tests ( )
6.2.1.8 generate_new_file()
void generate_new_file ( )
6.2.1.9 read_deque()
void read_deque ( )
6.2.1.10 read_deque_2()
void read_deque_2 ( )
6.2.1.11 read_deque_3()
void read_deque_3 ( )
6.2.1.12 read_list()
void read_list ( )
6.2.1.13 read_list_2()
void read_list_2 ( )
6.2.1.14 read_list_3()
void read_list_3 ( )
6.2.1.15 use_existing_file()
void use_existing_file ( )
6.2.1.16 use_existing_file_2()
```

void use_existing_file_2 ()

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6.2.1.17 use_existing_file_3()

```
void use_existing_file_3 ( )
```

6.3 functions.h

Go to the documentation of this file.

```
00001 #ifndef FUNCTIONS_H
00002 #define FUNCTIONS_H
00003
00004 #include <iostream>
00005 #include <vector>
00006 #include <algorithm>
00007 #include <numeric>
00008 #include <iomanip>
00009 #include <ctime>
00010 #include <fstream>
00011 #include <istream>
00012 #include <sstream>
00013 #include <numeric>
00014 #include <stdexcept>
00015 #include <bits/stdc++.h>
00016 #include <chrono>
00017 #include <list>
00018 #include <deque>
00019 #include "studentas.h"
00020 #include <cassert>
00021
00022 using namespace std;
00023
00024 void func_input_hands();
00025 void func_generate_numbers();
00026 void func_generate_names();
00027 void func_input_file();
00028 void func_generate();
00029 void generate_new_file();
00030 //3 STRATEGIJA
00031 void use_existing_file();
00032 void read_list();
00033 void read deque();
00034 //2 STRATEGIJA
00035 void use_existing_file_2();
00036 void read_list_2();
00037 void read_deque_2();
00038 //3 STRATEGIJA
00039 void use_existing_file_3();
00040 void read_list_3();
00041 void read_deque_3();
00042
00043 void func_tests();
00044 void func_input_output();
00045 #endif /* FUNCTIONS_H */
```

6.4 C:/Darbai/2_OP/2_OP/masyvai.cpp File Reference

```
#include <iostream>
#include <fstream>
#include <math.h>
#include <iomanip>
#include <vector>
#include <algorithm>
#include <random>
#include <ctime>
```

Classes

struct duomenys

Functions

- void func_input_hands ()
- void func_generate_numbers ()
- void func_generate_names ()
- int main ()

Variables

• const int MAX_ND = 100

6.4.1 Function Documentation

6.4.1.1 func_generate_names()

```
void func_generate_names ( )
```

6.4.1.2 func_generate_numbers()

```
void func_generate_numbers ( )
```

6.4.1.3 func_input_hands()

```
void func_input_hands ( )
```

6.4.1.4 main()

```
int main ()
```

6.4.2 Variable Documentation

6.4.2.1 MAX_ND

```
const int MAX_ND = 100
```

6.5 C:/Darbai/2_OP/2_OP/README.md File Reference

6.6 C:/Darbai/2_OP/2_OP/studentas.h File Reference

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

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Classes

- class Zmogus
- · class Studentas

Variables

• const int MAX ND = 100

6.6.1 Variable Documentation

6.6.1.1 MAX ND

```
const int MAX ND = 100
```

6.7 studentas.h

Go to the documentation of this file.

```
00001 #ifndef STUDENTAS_H
00002 #define STUDENTAS_H
00003
00004 #include <vector>
00005 #include <string>
00006 #include <iostream>
00007
00008 const int MAX_ND = 100;
00009
00010 class Zmogus {
00011 protected:
         std::string vardas_, pav_; // Privatūs nariai, kurie saugo žmogaus vardą ir pavardę
00012
00014
           Zmogus() = default; // Standartinis konstruktorius, inicializuoja vardą ir pavardę
00015
          // Konstruktorius, kuris inicializuoja vardą ir pavardę pagal pateiktus parametrus
00016
          Zmogus(const std::string& vardas, const std::string& pav)
00017
          : vardas_(vardas), pav_(pav) {}
00018
          // Virtualus destruktorius, leidžiantis paveldėtoms klasėms tvarkyti atminties išlaisvinimą
00019
          virtual ~Zmogus() {}
00020
00021 public:
         // Virtualus get metodai, gražinantys vardą arba pavarde
00022
         virtual const std::string@ getVardas() const = 0; //kad abstraktus reik prilygint 0
virtual const std::string@ getPavarde() const = 0;
00023
00024
00025
          // Virtualus set metodai, nustatantys varda arba pavarde
00026
          virtual void setVardas(const std::string& vardas) { vardas_ = vardas; }
00027
          virtual void setPavarde(const std::string& pavarde) { pav_ = pavarde; }
00028
00029 };
00030
00031 class Studentas : public Zmogus {
00032 private:
00033
        std::vector<int> nd_;
00034
          int egzaminas_, nd_kiekis_;
00035
          double gal_vid_, gal_bal_, gal_med_;
00036
00037 public:
00038
         bool operator<(const Studentas& other) const {</pre>
00039
             return gal_vid_ < other.gal_vid_;</pre>
00040
00041
00042
          Studentas(): egzaminas_(0), nd_kiekis_(0), gal_vid_(0), gal_bal_(0), gal_med_(0) {}
00043
00044
          Studentas(const std::string& vardas, const std::string& pav, int egzaminas, const
     std::vector<int>& nd, int nd_kiekis, double gal_vid, double gal_med)
              : Zmogus(vardas, pav), nd_(nd), egzaminas_(egzaminas), nd_kiekis_(nd_kiekis), gal_vid_(gal_vid), gal_med_(gal_med) {}
00045
00046
00047
00048
          ~Studentas() {}
00049
00050
          // COPY KONSTRUKTORIUS
```

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```
Studentas (const Studentas& other)
00052
               : Zmogus(other.getVardas(), other.getPavarde()), nd_(other.nd_), egzaminas_(other.egzaminas_),
00053
                nd_kiekis_(other.nd_kiekis_), gal_vid_(other.gal_vid_), gal_bal_(other.gal_bal_),
      gal_med_(other.gal_med_) {}
00054
00055
           // COPY PRISKYRIMO OPERATORIUS
           Studentas& operator=(const Studentas& other)
00057
00058
                if (this != &other) {
00059
                    setVardas(other.getVardas());
00060
                    setPavarde(other.getPavarde());
00061
                    nd = other.nd ;
                    egzaminas_ = other.egzaminas_;
nd_kiekis_ = other.nd_kiekis_;
00062
00063
                    gal_vid_ = other.gal_vid_;
gal_bal_ = other.gal_bal_;
00064
00065
                    gal_med_ = other.gal_med_;
00066
00067
00068
                return *this;
00069
           }
00070
00071
           // MOVE KONSTRUKTORIUS
00072
           Studentas (Studentas & other) noexcept
00073
                : Zmogus(std::move(other.vardas_), std::move(other.pav_)), nd_(std::move(other.nd_)),
                egzaminas_(std::move(other.egzaminas_)), nd_kiekis_(std::move(other.nd_kiekis_)), gal_vid_(std::move(other.gal_vid_)), gal_bal_(std::move(other.gal_bal_)),
00074
      gal_med_(std::move(other.gal_med_))
00076
                other.vardas_ = "";
other.pav_ = "";
00077
00078
                other.egzaminas_ = 0;
00079
00080
                other.nd_kiekis_ = 0;
00081
                other.gal_vid_ = 0;
00082
                other.gal_bal_ = 0;
00083
                other.gal_med_ = 0;
           }
00084
00085
00086
           // MOVE PRISKYRIMO OPERATORIUS
00087
           Studentas& operator=(Studentas&& other) noexcept
00088
00089
                if (this != &other) {
00090
                    setVardas(std::move(other.getVardas()));
00091
                    setPavarde(std::move(other.getPavarde()));
00092
                    nd_ = std::move(other.nd_);
                    egzaminas_ = std::move(other.egzaminas_);
nd_kiekis_ = std::move(other.nd_kiekis_);
00093
00094
00095
                    gal_vid_ = std::move(other.gal_vid_);
                    gal_bal_ = std::move(other.gal_bal_);
gal_med_ = std::move(other.gal_med_);
00096
00097
00098
00099
                    other.vardas_ = "";
                    other.pav_ = "";
00100
00101
                    other.egzaminas_ = 0;
00102
                    other.nd_kiekis_ = 0;
                    other.gal_vid_ = 0;
00103
                    other.gal_bal_ = 0;
00104
                    other.gal_med_ = 0;
00106
00107
                return *this;
00108
           }
00109
00110
           const std::string& getVardas() const override { return vardas_; }
00111
           const std::string& getPavarde() const override { return pav_; }
           const std::vector<int>& getNd() const { return nd_; }
00112
00113
           int getEgzaminas() const { return egzaminas_; }
00114
           double getGalutinisVid() const { return gal_vid_;
           double getGalutinisBal() const { return gal_bal_;
double getGalutineMed() const { return gal_med_; }
int getNdKiekis() const { return nd_kiekis_; }
00115
00116
00117
00118
00119
           void setVardas(const std::string& vardas) override { Zmogus::setVardas(vardas); }
00120
           void setPavarde(const std::string& pavarde) override { Zmogus::setPavarde(pavarde); }
00121
           void setNd(const std::vector<int>& nd) { nd_ = nd; nd_kiekis_ = nd.size();
      skaiciuotiGalutiniBal(); }
   void setEgzaminas(int egzaminas) { egzaminas_ = egzaminas; }
00122
           void setGalutinisVid(double gal_vid) { gal_vid_ = gal_vid;
00123
00124
           void setGalutinisBal(double gal_bal) { gal_bal_ = gal_bal; }
00125
           void setGalutineMed(double gal_med) { gal_med_ = gal_med;
00126
           void setNdKiekis(int nd_kiekis) { nd_kiekis_ = nd_kiekis;
00127
00128
           void addnd(int nd) { nd_.push_back(nd); nd_kiekis_++; skaiciuotiGalutiniBal(); }
00129
00130
           void skaiciuotiGalutiniBal() {
00131
                if (nd_.empty()) {
00132
                    gal_bal_ = egzaminas_;
00133
                    return;
00134
                }
```

28 File Documentation

```
double suma = 0;
00136
                for (int pazymys : nd_) {
00137
                     suma += pazymys;
00138
00139
                gal_bal_ = 0.4 * (suma / nd_.size()) + 0.6 * egzaminas_;
00140
           }
00141
00142
00143
           friend std::istream& operator»(std::istream& in, Studentas& studentas) {
00144
                in » studentas.vardas_ » studentas.pav_;
00145
00146
               int pazymys;
                studentas.nd_.clear(); // Išvalome namų darbų sąrašą
00147
00148
                while (in » pazymys && pazymys >= 0) {
00149
                     studentas.addnd(pazymys); // Pridedame naują namų darbo pažymį
00150
00151
                in » studentas.egzaminas_; // Skaitome egzamino rezultatą
00152
00153
00154
                return in;
00155
00156
           // Output
00157
           friend std::ostream& operator«(std::ostream& out, const Studentas& studentas) {
  out « "Vardas: " « studentas.vardas_ « std::endl;
  out « "Pavarde: " « studentas.pav_ « std::endl;
  out « "Namu darbai: ";
00158
00159
00160
00161
               for (int pazymys : studentas.nd_) {
   out « pazymys « " ";
00162
00163
00164
               out « std::endl; out « "Egzamino rezultatas: " « studentas.egzaminas_ « std::endl;
00165
00166
00167
00168
00169 };
00170
00171 #endif /* STUDENTAS_H */
```

6.8 C:/Darbai/2 OP/2 OP/vektoriai.cpp File Reference

#include "functions.h"

Functions

• int main ()

6.8.1 Function Documentation

6.8.1.1 main()

int main ()

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