My Project

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Chapter 1

Class Index

1.1 Class List

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

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Chapter 2

File Index

2.1 File List

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

funcs_convert.h
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funcs_init.h
: Header file with the declaration of input functions from the standard stream 7

funcs_menu.h
: Header file with a description of the menu functions for the program 9

struct_func.h
: Header file with description of structure functions Student 11

Chapter 3

Class Documentation

3.1 Student Struct Reference

the Student structure described in the file struct_func.cpp

`#include <struct_func.h>`

Public Attributes

- std::string **name**
- std::string **number**
- float **score**

3.1.1 Detailed Description

the Student structure described in the file struct_func.cpp

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

- struct_func.h

Chapter 4

File Documentation

4.1 funcs_convert.h File Reference

Header file with a description of the conversion functions.

`#include <string>`
Include dependency graph for funcs_convert.h:

4.2 funcs_convert.h

Go to the documentation of this file.

```
1
9 #ifndef FUNCS_CONVERT_H
10 #define FUNCS_CONVERT_H
11 #include <string>
12
13 typedef struct Student Student;
14
15 namespace cnv{
16
38     std::string convert(Student& student);
39
40
57     Student convert(const std::  string info);
58 }
59
60
61
62
63 #endif
```

4.3 funcs_init.h File Reference

Header file with the declaration of input functions from the standard stream.

`#include <string>`
Include dependency graph for funcs_init.h:

Functions

- std::string inits::get_string (std::string info)

  A function for entering a string from a standard input stream.
- float inits::get_float (std::string info)

  A function for entering a floating point number from a standard input stream.

4.3.1 Detailed Description

Header file with the declaration of input functions from the standard stream.

4.3.2 Function Documentation

4.3.2.1 get_float()

```
float inits::get_float (
            std::string info )
```

A function for entering a floating point number from a standard input stream.

Warning

A function for entering a floating point number from a standard input stream <Ctrl + D> = EOF

Exceptions

runtime_error("EOF")	

Parameters

info	Class object string, it is needed to output the contents of the passed argument to the standard output stream

Returns

Floating point number

4.3.2.2 get_string()

```
std::string inits::get_string (
            std::string info )
```

A function for entering a string from a standard input stream.

Warning

The function throws an exception if the keys are pressed <Ctrl + D> = EOF To complete the input, you must enter <;>

Exceptions

runtime_error("EOF")	

Parameters

info	Class object string, it is needed to output the contents of the passed argument to the standard output stream

Returns

Class object string

4.4 funcs_init.h

Go to the documentation of this file.

```
1
8 #ifndef FUNCS_INIT_H
9 #define FUNCS_INIT_H
10 #include <string>
11
12
13
14 namespace inits{
29     std::string get_string(std::string info);
30
44     float get_float(std::string info);
45 }
46
47 #endif
```

4.5 funcs_menu.h File Reference

Header file with a description of the menu functions for the program.

`#include <string>`
Include dependency graph for funcs_menu.h:

Typedefs

- typedef struct Student **Student**

Functions

- int mn::chose_func ()

  Function for selecting the operating mode.
- void mn::func_1 ()

  A function for converting a string into a structure.
- void mn::func_2 ()

  A function for converting a structure to a string.

4.5.1 Detailed Description

Header file with a description of the menu functions for the program.

This file contains definitions of the main functions for working with the menu

4.5.2 Function Documentation

4.5.2.1 chose_func()

```
int mn::chose_func ( )
```

Function for selecting the operating mode.

Exceptions

The	same as in the function get_float announced in funcs_init.h

Returns

An integer number <int>

4.5.2.2 func_1()

```
void mn::func_1 ( )
```

A function for converting a string into a structure.

Exceptions

The	same as in the function convert() announced in funcs_convert.h

4.5.2.3 func_2()

```
void mn::func_2 ( )
```

A function for converting a structure to a string.

Exceptions

The	same as in the function convert() announced in funcs_convert.h

4.6 funcs_menu.h

Go to the documentation of this file.

```
1
10 #ifndef FUNCS_MENU_H
11 #define FUNCS_MENU_H
12
13 #include <string>
14
15 typedef struct Student Student;
16
17 namespace mn{
28     int chose_func();
29
38     void func_1();
39
48     void func_2();
49 }
50
51
52 #endif
```

4.7 struct_func.h File Reference

Header file with description of structure functions Student.

`#include <string>`
Include dependency graph for struct_func.h:

Classes

- struct Student

  the Student structure described in the file struct_func.cpp

Typedefs

- typedef struct Student **Student**

  the Student structure described in the file struct_func.cpp

Functions

- Student stude::init_student (const std::string name, const std::string number, float score)

  The function of assigning values to a structure.
- std::string stude::get_name (const Student &student)

  A function to output one of the fields of the structure <name>
- std::string stude::get_number (const Student &student)

  A function for displaying the contents of one of the fields of the structure <number>
- float stude::get_score (const Student &student)

  A function for displaying the contents of one of the fields of the structure <score>
- bool stude::compar_students (Student &student1, Student &student2)

  A function for comparing the contents of fields of two structures.
- std::ostream & **operator**<< (std::ostream &os, const Student &student)

4.7.1 Detailed Description

Header file with description of structure functions Student.

This file contains definitions of the main functions for working with the structure

4.7.2 Function Documentation

4.7.2.1 compar_students()

```
bool stude::compar_students (
            Student & student1,
            Student & student2 )
```

A function for comparing the contents of fields of two structures.

Parameters

student1	

Link to the structure

Parameters

student2	

Link to the structure

Returns

A logical variable of the type bool

4.7.2.2 get_name()

```
std::string stude::get_name (
            const Student & student )
```

A function to output one of the fields of the structure <name>

Parameters

student	

Link to the structure

Returns

Class object string

4.7.2.3 get_number()

```
std::string stude::get_number (
            const Student & student )
```

A function for displaying the contents of one of the fields of the structure <number>

Parameters

student	Link to the structure

Returns

Class object string

4.7.2.4 get_score()

```
float stude::get_score (
            const Student & student )
```

A function for displaying the contents of one of the fields of the structure <score>

Parameters

student	Link to the structure

Returns

Floating point number <float>

4.7.2.5 init_student()

```
Student stude::init_student (
            const std::string name,
            const std::string number,
            float score )
```

The function of assigning values to a structure.

Parameters

name	

Class object string

Parameters

number	Class object string
score	

Floating point number

Returns

Link to the structure

4.8 struct_func.h

Go to the documentation of this file.

```
1
10 #ifndef STRUCT_FUNC_H
11 #define STRUCT_FUNC_H
12 #include <string>
17 typedef struct Student{
18     std::  string name;
19     std::  string number;
20     float score;
21 }Student;
22
23 namespace stude{
41     Student init_student(const std::string name,const std::string number, float score);
42
54     std::  string get_name(const Student& student);
55
69     std::  string get_number(const Student& student);
70
81     float get_score(const Student& student);
82
97     bool compar_students(Student& student1, Student& student2);
98 }
99
100 std::  ostream& operator«(std::  ostream& os, const Student& student);
101
102 #endif
```

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