ALG-projekt 1 BAI0033

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Chapter 1

Class Index

1.1 Class List

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Graph	 									 											7
Point																					c

2 Class Index

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

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File Index

Chapter 3

Class Documentation

3.1 Component Class Reference

```
#include <Component.h>
```

Public Member Functions

- Component ()
- ∼Component ()
- void getExcentricities ()
- int getDiameter ()
- int getRadius ()

Public Attributes

std::vector< Point * > points

3.1.1 Detailed Description

Třída komponenta

3.1.2 Constructor & Destructor Documentation

3.1.2.1 Component()

Component::Component ()

Konstruktor

6 Class Documentation

3.1.2.2 ∼Component()

```
Component::\simComponent ( )
```

Destruktor

3.1.3 Member Function Documentation

3.1.3.1 getDiameter()

```
int Component::getDiameter ( )
```

Získání průměru Vybere největší excentricitu

3.1.3.2 getExcentricities()

```
void Component::getExcentricities ( )
```

Získání excentricit

3.1.3.3 getRadius()

```
int Component::getRadius ( )
```

Získání poloměru Vybere nejmenší excentricitu

3.1.4 Member Data Documentation

3.1.4.1 points

```
std::vector<Point *> Component::points
```

vektor bodů, které komponenta obsahuje

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

- src/headers/Component.h
- src/Component.cpp

3.2 Graph Class Reference

```
#include <Graph.h>
```

Public Member Functions

- Graph (std::string fileName)
- ~Graph ()
- void findComponents ()
- int where (int a)
- Component * biggestComponent ()

Public Attributes

```
std::vector< Point * > points
```

• std::vector< Component * > components

3.2.1 Detailed Description

Třída graf

3.2.2 Constructor & Destructor Documentation

3.2.2.1 Graph()

Konstruktor s načítáním grafu

Parameters

```
fileName soubor s grafem
```

3.2.2.2 ∼Graph()

```
Graph::∼Graph ( )
```

Destruktor Smaže všechny pointy

8 Class Documentation

3.2.3 Member Function Documentation

3.2.3.1 biggestComponent()

```
Component * Graph::biggestComponent ( )
```

Nalezení největší komponenty

3.2.3.2 findComponents()

```
void Graph::findComponents ( )
```

Nalezení komponenty

3.2.3.3 where()

```
int Graph::where (
    int a )
```

Nalezení indexu

Parameters

a vrchol, kterému chceme nalézt index

3.2.4 Member Data Documentation

3.2.4.1 components

```
std::vector<Component *> Graph::components
```

vektor komponent nacházejících se v grafu

3.2.4.2 points

```
std::vector<Point *> Graph::points
```

vektor bodů nacházejících se v grafu

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

- src/headers/Graph.h
- src/Graph.cpp

3.3 Point Class Reference 9

3.3 Point Class Reference

```
#include <Point.h>
```

Public Member Functions

- Point (int value)
- ∼Point ()

Public Attributes

- int value
- std::vector < Point * > neighbors
- bool checked = false
- int excentricity = 0
- int distance = 0

3.3.1 Detailed Description

Třída Point

3.3.2 Constructor & Destructor Documentation

3.3.2.1 Point()

```
Point::Point (
    int value )
```

vzdálenost bodu od počátečního bodu

Konstruktor

Parameters

```
value nastavení hodnoty bodu
```

3.3.2.2 \sim Point()

```
Point::\simPoint ( )
```

Destruktor

10 Class Documentation

3.3.3 Member Data Documentation

3.3.3.1 checked

```
bool Point::checked = false
```

kontrola, jestli byl bod projet

3.3.3.2 distance

```
int Point::distance = 0
```

3.3.3.3 excentricity

```
int Point::excentricity = 0
```

excentricita bodu

3.3.3.4 neighbors

```
std::vector<Point *> Point::neighbors
```

vektor sousedů bodu

3.3.3.5 value

int Point::value

hodnota bodu

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

- src/headers/Point.h
- src/Point.cpp

Chapter 4

File Documentation

4.1 build/CMakeFiles/3.26.3/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

4.1.1 Macro Definition Documentation

4.1.1.1 __has_include

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

4.1.1.2 ARCHITECTURE ID

```
#define ARCHITECTURE_ID
```

4.1.1.3 C_VERSION

```
#define C_VERSION
```

4.1.1.4 COMPILER_ID

```
#define COMPILER_ID ""
```

4.1.1.5 DEC

```
#define DEC( \ensuremath{n})
```

Value:

```
alue:

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

4.1.1.6 HEX

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

Value:

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

4.1.1.7 PLATFORM_ID

```
#define PLATFORM_ID
```

4.1.1.8 STRINGIFY

4.1.1.9 STRINGIFY_HELPER

```
#define STRINGIFY_HELPER( \it X ) #X
```

4.1.2 Function Documentation

4.1.2.1 main()

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

4.1.3 Variable Documentation

4.1.3.1 info_arch

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

4.1.3.2 info_compiler

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

4.1.3.3 info_language_extensions_default

```
const char* info_language_extensions_default

Initial value:
    "INFO" ":" "extensions_default["

    "OFF"

"]"
```

4.1.3.4 info_language_standard_default

```
const char* info_language_standard_default

Initial value:
    "INFO" ":" "standard_default[" C_VERSION "]"
```

4.1.3.5 info_platform

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

4.2 CMakeFiles/3.26.3/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
```

4.2.1 Macro Definition Documentation

4.2.1.1 __has_include

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

4.2.1.2 ARCHITECTURE_ID

```
#define ARCHITECTURE_ID
```

4.2.1.3 **C_VERSION**

#define C_VERSION

4.2.1.4 COMPILER ID

```
#define COMPILER_ID ""
```

4.2.1.5 DEC

4.2.1.6 HEX

4.2.1.7 PLATFORM_ID

```
#define PLATFORM_ID
```

4.2.1.8 STRINGIFY

4.2.1.9 STRINGIFY_HELPER

4.2.2 Function Documentation

4.2.2.1 main()

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

4.2.3 Variable Documentation

4.2.3.1 info_arch

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

4.2.3.2 info_compiler

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

4.2.3.3 info_language_extensions_default

```
const char* info_language_extensions_default

Initial value:
    "INFO" ":" "extensions_default["

"OFF"
"]"
```

4.2.3.4 info_language_standard_default

```
const char* info_language_standard_default

Initial value:

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

4.2.3.5 info_platform

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

4.3 build/CMakeFiles/3.26.3/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
```

4.3.1 Macro Definition Documentation

• const char * info_language_extensions_default

4.3.1.1 __has_include

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

4.3.1.2 ARCHITECTURE_ID

```
#define ARCHITECTURE_ID
```

4.3.1.3 COMPILER_ID

```
#define COMPILER_ID ""
```

4.3.1.4 CXX_STD

```
#define CXX_STD __cplusplus
```

4.3.1.5 DEC

4.3.1.6 HEX

4.3.1.7 PLATFORM_ID

```
#define PLATFORM_ID
```

4.3.1.8 STRINGIFY

4.3.1.9 STRINGIFY_HELPER

```
#define STRINGIFY_HELPER( \it X ) \rm \# X
```

4.3.2 Function Documentation

4.3.2.1 main()

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

4.3.3 Variable Documentation

4.3.3.1 info_arch

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

4.3.3.2 info_compiler

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

4.3.3.3 info_language_extensions_default

```
const char* info_language_extensions_default
```

```
Initial value:
= "INFO" ":" "extensions_default["
  "OFF"
"]"
```

4.3.3.4 info_language_standard_default

```
const char* info_language_standard_default
Initial value:
= "INFO" ":" "standard_default["
```

```
"98"
"]"
```

4.3.3.5 info_platform

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

4.4 CMakeFiles/3.26.3/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

4.4.1 Macro Definition Documentation

4.4.1.1 __has_include

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

4.4.1.2 ARCHITECTURE ID

#define ARCHITECTURE_ID

4.4.1.3 COMPILER_ID

```
#define COMPILER_ID ""
```

4.4.1.4 CXX_STD

```
#define CXX_STD __cplusplus
```

4.4.1.5 DEC

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

Value:

4.4.1.6 HEX

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

Value:

```
alue:

('0' + ((n) > 28 & 0xF)), \
('0' + ((n) > 24 & 0xF)), \
('0' + ((n) > 20 & 0xF)), \
('0' + ((n) > 16 & 0xF)), \
('0' + ((n) > 16 & 0xF)), \
('0' + ((n) > 18 & 0xF)), \
('0' + ((n) > 8 & 0xF)), \
('0' + ((n) > 8 & 0xF)), \
('0' + ((n) > 4 & 0xF)), \
('0' + ((n) & 0xF))
```

4.4.1.7 PLATFORM_ID

```
#define PLATFORM_ID
```

4.4.1.8 STRINGIFY

4.4.1.9 STRINGIFY_HELPER

```
#define STRINGIFY_HELPER( \it X ) \it \# X
```

4.4.2 Function Documentation

4.4.2.1 main()

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

4.4.3 Variable Documentation

4.4.3.1 info_arch

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

4.4.3.2 info_compiler

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

4.4.3.3 info_language_extensions_default

```
const char* info_language_extensions_default
Initial value:
= "INFO" ":" "extensions_default["
```

```
"OFF"
```

4.4.3.4 info_language_standard_default

```
const char* info_language_standard_default

Initial value:
    """ "standard_default["

"98"
"]"
```

4.4.3.5 info_platform

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

- 4.5 build/CMakeFiles/project.dir/main.cpp.o.d File Reference
- 4.6 CMakeFiles/project.dir/main.cpp.o.d File Reference
- 4.7 main.cpp File Reference

```
#include "src/headers/Graph.h"
```

Functions

• int main (int argc, char **argv)

4.7.1 Function Documentation

4.7.1.1 main()

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

4.8 src/Component.cpp File Reference

```
#include "Component.h"
```

4.9 src/Graph.cpp File Reference

```
#include "Graph.h"
```

4.10 src/headers/Component.h File Reference

```
#include "Point.h"
```

Classes

class Component

4.11 Component.h

Go to the documentation of this file.

4.12 src/headers/Graph.h File Reference

```
#include "Component.h"
```

Classes

· class Graph

4.13 Graph.h

Go to the documentation of this file.

```
00001 #include "Component.h"
00005 class Graph
00006 {
00007 public:
       std::vector<Point *> points;
80000
00009
          std::vector<Component *> components;
00011
          Graph(std::string fileName);
00012
          ~Graph();
00013
00014
          void findComponents();
00015
          int where(int a);
00016
          Component *biggestComponent();
00017 };
```

4.14 src/headers/Point.h File Reference

```
#include <queue>
#include <vector>
#include <string>
#include <fstream>
#include <iostream>
#include <algorithm>
```

Classes

· class Point

4.15 Point.h

Go to the documentation of this file.

```
00001 #include <queue>
00002 #include <vector>
00003 #include <string>
00004 #include <fstream>
00005 #include <iostream>
00006 #include <algorithm>
00010 class Point
00011 {
00012 public:
00013 int value;
00014
           std::vector<Point *> neighbors;
          bool checked = false;
int excentricity = 0;
00015
00016
00017
          // jak daleko je bod, který je od tohoto bodu nejdál tou nejefektivnější trasou
00018
00019
          int distance = 0;
00021
           Point(int value);
00022
           ~Point();
00023 };
```

4.16 src/Point.cpp File Reference

```
#include "Point.h"
```

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