My Project

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Chapter 1

Class Index

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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 Action Class Reference

```
< Class for storing actions
```

```
#include <Action.hpp>
```

Public Member Functions

- void Set_New_State (std::string newstate)
- void Set_New_Word (std::string newword)
- void Set_Move (char move)
- std::string Get_New_State () const
- std::string Get_New_Word () const
- char Get_Move () const

3.1.1 Detailed Description

< Class for storing actions

3.1.2 Member Function Documentation

3.1.2.1 Get_Move()

```
char Action::Get_Move ( ) const
```

Method to get move

Returns

Move

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3.1.2.2 Get_New_State()

```
std::string Action::Get_New_State ( ) const
```

Method to get new state

Returns

New state

3.1.2.3 Get_New_Word()

```
std::string Action::Get_New_Word ( ) const
```

Method to get new word

Returns

New word

3.1.2.4 Set_Move()

Method for setting a move

Parameters

in <i>move</i> Move

3.1.2.5 Set_New_State()

Method for setting a new state

Parameters

in	newstate	New state

3.1.2.6 Set_New_Word()

3.2 Head Class Reference 7

Method for setting a new word

Parameters

in	newword	New word
----	---------	----------

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

- · Action.hpp
- Action.cpp

3.2 Head Class Reference

< Class for implementing the machine head

```
#include <Head.hpp>
```

Public Member Functions

- void Set_Position (int position)
- void Set_State (std::string state)
- int Get_Position () const
- std::string Get_State () const

3.2.1 Detailed Description

< Class for implementing the machine head

3.2.2 Member Function Documentation

3.2.2.1 Get_Position()

```
int Head::Get_Position ( ) const
```

Method to get head position

Returns

Head position

3.2.2.2 Get_State()

```
std::string Head::Get_State ( ) const
```

Method to get head state

Returns

Head state

3.2.2.3 Set_Position()

Method for setting the head position

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Parameters

in <i>position</i> New position

3.2.2.4 Set_State()

```
void Head::Set_State (
          std::string state )
```

Method for setting the head state

Parameters

in	state	New state
----	-------	-----------

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

- · Head.hpp
- Head.cpp

3.3 Rules Class Reference

```
#include <Rules.hpp>
```

Public Member Functions

- ∼Rules ()
- std::string Get_State (int position) const
- std::string Get_Word (int position) const
- int Get Amount Of States () const
- int Get_Amount_Of_Words () const
- Action * Get_Rule (int state, int word) const
- · void New_Rule (char move, std::string newword, std::string newstate, std::string word, std::string state)
- bool Remove_Rule (std::string word, std::string state)
- std::string View () const

3.3.1 Constructor & Destructor Documentation

3.3.1.1 ∼Rules()

```
Rules::~Rules ( )
```

Destructor for clearing the rules table

3.3 Rules Class Reference 9

3.3.2 Member Function Documentation

3.3.2.1 Get_Amount_Of_States()

```
int Rules::Get_Amount_Of_States ( ) const
```

Method for getting the amount of different states

Returns

Amount of different states

3.3.2.2 Get_Amount_Of_Words()

```
int Rules::Get_Amount_Of_Words ( ) const
```

Method for getting the amount of different words

Returns

Amount of different states

3.3.2.3 Get_Rule()

Method for obtaining actions based on specified conditions

Parameters

in	state	State number
in	word	Word number

Returns

Action

3.3.2.4 Get_State()

Method for obtaining the state of the number

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Parameters

in <i>position</i> State number

Returns

State

3.3.2.5 Get_Word()

Method for obtaining the word of the number

Parameters

in position Word	number
----------------------	--------

Returns

Word

3.3.2.6 New_Rule()

Method for adding a new rule

Parameters

in	move	Symbol with move
in	newword	String with new word
in	newstate	String with new state
in	word	String with word
in	state	String with state

3.3.2.7 Remove_Rule()

Method for deleting a rule

Parameters

in	word	Word of the rule to be deleted
in	state	State of the rule to be deleted

Returns

TRUE if such a rule exists else FALSE

3.3.2.8 View()

```
std::string Rules::View ( ) const
```

Method for viewing rules

Returns

Rules recorded in string

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

- Rules.hpp
- Rules.cpp

3.4 Tape Class Reference

Class for implementing the machine tape.

```
#include <Tape.hpp>
```

Public Member Functions

- void Add_Cell (std::string word)
- void Add_Cell (int position, std::string word)
- bool Remove_Cell ()
- bool Remove_Cell (int position)
- void Set_Cell (int position, std::string word)
- std::string Get Cell (int position) const
- int Get_Size () const
- std::string View (Head head) const

3.4.1 Detailed Description

Class for implementing the machine tape.

3.4.2 Member Function Documentation

3.4.2.1 Add_Cell() [1/2]

Method for adding a cell by position

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Parameters

in	position	Cell position
in	word	Added cell

3.4.2.2 Add_Cell() [2/2]

Method for adding a cell to the end of a tape

Parameters

ĺ	in	word	Added cell
---	----	------	------------

3.4.2.3 Get_Cell()

Method for receiving cell

Parameters

in	position	Cell position
----	----------	---------------

Returns

A cell

3.4.2.4 Get_Size()

```
int Tape::Get_Size ( ) const
```

Method for obtaining tape length

Returns

A tape lenght

3.4.2.5 Remove_Cell() [1/2]

```
bool Tape::Remove_Cell ( )
```

Method to delete the last cell

Returns

TRUE if such a cell exists else FALSE

3.4.2.6 Remove_Cell() [2/2]

Method to delete a cell by position

Parameters

in	position	Cell position
	poonion	our pountion

Returns

TRUE if such a cell exists else FALSE

3.4.2.7 Set_Cell()

Method for cell replacement

Parameters

in	position	Cell position
in	word	New cell

3.4.2.8 View()

Method for viewing tape with head position

Parameters

in <i>he</i>	ad Machine head \retutn Tap	e recorded in string
--------------	-----------------------------	----------------------

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

- Tape.hpp
- Tape.cpp

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Chapter 4

File Documentation

4.1 Action.cpp File Reference

```
#include "Action.hpp"
```

4.2 Action.hpp File Reference

```
#include <string>
```

Classes

· class Action

< Class for storing actions

4.3 Action.hpp

Go to the documentation of this file.

```
00001 #pragma once
00002 #include <string>
00004 class Action {
00005 public:
00010 void Set_New_State(std::string newstate);
00015 void Set_New_Word(std::string newword);
00020 void Set_Move(char move);
00025 std::string Get_New_State() const;
00030 std::string Get_New_Word() const;
00035 char Get_Move() const;
00036 private:
00037 std::string new_state;
00038 std::string new_state;
00039 char move;
00040 };
```

4.4 Execution.cpp File Reference

```
#include <windows.h>
#include "Execution.hpp"
```

Macros

• #define LIMIT 100

Functions

• bool Turing_Mashine (Head &head, Tape &tape, Rules &rules)

4.4.1 Macro Definition Documentation

4.4.1.1 LIMIT

```
#define LIMIT 100
```

4.4.2 Function Documentation

4.4.2.1 Turing_Mashine()

Method for performing Turing machine simulation

Parameters

in,out	head	Mashine head
in,out	tape	Machine tape
in	rules	Machine rules

Returns

FALSE if the number of steps is more than 100 else TRUE

4.5 Execution.hpp File Reference

```
#include "Tape.hpp"
#include "Rules.hpp"
```

4.6 Execution.hpp 17

Functions

• bool Turing_Mashine (Head &head, Tape &tape, Rules &rules)

4.5.1 Function Documentation

4.5.1.1 Turing_Mashine()

Method for performing Turing machine simulation

Parameters

in,out	head	Mashine head
in,out	tape	Machine tape
in	rules	Machine rules

Returns

FALSE if the number of steps is more than 100 else TRUE

4.6 Execution.hpp

Go to the documentation of this file.

```
00001 #pragma once

00002 #include "Tape.hpp"

00003 #include "Rules.hpp"

00011 bool Turing_Mashine(Head& head, Tape& tape, Rules& rules);
```

4.7 Head.cpp File Reference

```
#include "Head.hpp"
```

4.8 Head.hpp File Reference

```
#include <iostream>
```

Classes

· class Head

< Class for implementing the machine head

4.9 Head.hpp

Go to the documentation of this file.

```
00001 #pragma once
00002 #include <iostream>
00004 class Head {
00005 public:
00010     void Set_Position(int position);
00015     void Set_State(std::string state);
00020     int Get_Position() const;
00025     std::string Get_State() const;
00026 private:
00027     int position;
00028     std::string state;
00029 };
```

4.10 Interface.cpp File Reference

```
#include "Interface.hpp"
```

Functions

• bool Interface (Head &head, Tape &tape, Rules &rules, std::string choice)

4.10.1 Function Documentation

4.10.1.1 Interface()

Method for interaction between user and program

Parameters

in,out	head	Mashine head
in,out	tape	Machine tape
in,out	rules	Machine rules
in	choice	Action choice string

Returns

FALSE if such action do not exist, TRUE if Action choice string is Exit

4.11 Interface.hpp File Reference

```
#include "Loading_From_File.hpp"
```

```
#include "Execution.hpp"
```

Macros

- #define ADD_CELL "AddCell"
- #define GO "Go"
- #define SET_CELL "SetCell"
- #define REMOVE CELL "RemoveCell"
- #define NEW_RULE "NewRule"
- #define REMOVE_RULE "RemoveRule"
- #define EDIT_HEAD "EditHead"
- #define VIEW_RULES "ViewRules"
- #define VIEW TAPE "ViewTape"
- #define HELP "Help"
- #define EXIT "Exit"

Functions

• bool Interface (Head &head, Tape &tape, Rules &rules, std::string choice)

4.11.1 Macro Definition Documentation

4.11.1.1 ADD_CELL

```
#define ADD_CELL "AddCell"
```

4.11.1.2 EDIT_HEAD

```
#define EDIT_HEAD "EditHead"
```

4.11.1.3 EXIT

#define EXIT "Exit"

4.11.1.4 GO

#define GO "Go"

4.11.1.5 HELP

#define HELP "Help"

4.11.1.6 **NEW_RULE**

```
#define NEW_RULE "NewRule"
```

4.11.1.7 REMOVE_CELL

```
#define REMOVE_CELL "RemoveCell"
```

4.11.1.8 REMOVE_RULE

```
#define REMOVE_RULE "RemoveRule"
```

4.11.1.9 SET_CELL

```
#define SET_CELL "SetCell"
```

4.11.1.10 **VIEW_RULES**

```
#define VIEW_RULES "ViewRules"
```

4.11.1.11 VIEW_TAPE

```
#define VIEW_TAPE "ViewTape"
```

4.11.2 Function Documentation

4.11.2.1 Interface()

Method for interaction between user and program

Parameters

in,out	head	Mashine head
in,out	tape	Machine tape
in,out	rules	Machine rules
in	choice	Action choice string

4.12 Interface.hpp 21

Returns

FALSE if such action do not exist, TRUE if Action choice string is Exit

4.12 Interface.hpp

Go to the documentation of this file.

```
00001 #pragma once
00002 #include "Loading_From_File.hpp"
00003 #include "Execution.hpp"
00004 #define ADD_CELL "AddCell"
00005 #define GO "Go"
00006 #define SET_CELL "SetCell"
00007 #define REMOVE_CELL "RemoveCell"
00008 #define NEW_RULE "NewRule"
00009 #define REMOVE_RULE "RemoveRule"
00010 #define EDIT_HEAD "EditHead"
00011 #define VIEW_RULES "ViewRules"
00012 #define VIEW_TAPE "ViewTape"
00013 #define HELP "Help"
00014 #define EXIT "Exit"
00015
00025 bool Interface (Head& head, Tape& tape, Rules& rules, std::string choice);
```

4.13 Lab1.cpp File Reference

```
#include "Interface.hpp"
```

Functions

• int main ()

4.13.1 Function Documentation

4.13.1.1 main()

```
int main ( )
```

4.14 Loading_From_File.cpp File Reference

```
#include "Loading_From_File.hpp"
```

Functions

- bool Edit_Head (std::string str, Head &head, Tape &tape)
- bool New Rule (std::string str, Rules &rules)
- std::string Get_Word (std::string str, int &position)
- bool Loading_From_File (std::string file_name, Head &head, Tape &tape, Rules &rules)

4.14.1 Function Documentation

4.14.1.1 Edit_Head()

Method for setting the properties of the head, the value of which is taken from the string

Parameters

in	str	A string containing the properties of the machine head
out	head	Machine head
out	tape	Machine tape \retutn FALSE if there was an error reading from the string else TRUE

4.14.1.2 Get_Word()

Helper method to get a word from a string

Parameters

in	str	A string
in	position	Position of the first letter of a word \retutn Received word

4.14.1.3 Loading_From_File()

Method for reading car data from a file

Parameters

in	file	File name
out	head	Machine head
out	tape	Machine tape
out	rules	Machine rules \retutn TRUE if this file exist else FALSE

4.14.1.4 New_Rule()

```
bool New_Rule (
          std::string str,
          Rules & rules )
```

Method for adding a new rule from a string

Parameters

in	str	String with rules
out	rules	Machine rules \retutn FALSE if there was an error reading from the string else TRUE

4.15 Loading_From_File.hpp File Reference

```
#include <fstream>
#include "Tape.hpp"
#include "Rules.hpp"
```

Functions

- bool Edit_Head (std::string str, Head &, Tape &)
- bool New_Rule (std::string str, Rules &rules)
- std::string Get_Word (std::string str, int &position)
- bool Loading_From_File (std::string file, Head &head, Tape &tape, Rules &rules)

4.15.1 Function Documentation

4.15.1.1 Edit_Head()

Method for setting the properties of the head, the value of which is taken from the string

Parameters

in	str	A string containing the properties of the machine head	
out	head	Machine head	
out	tape	Machine tape \retutn FALSE if there was an error reading from the string else TRUE	

4.15.1.2 Get_Word()

Helper method to get a word from a string

Parameters

in	str	A string
in	position	Position of the first letter of a word \retutn Received word

4.15.1.3 Loading_From_File()

Method for reading car data from a file

Parameters

in	file	File name	
out	head	d Machine head	
out	tape	Machine tape	
out	rules	Machine rules \retutn TRUE if this file exist else FALSE	

4.15.1.4 New_Rule()

```
bool New_Rule (
          std::string str,
          Rules & rules )
```

Method for adding a new rule from a string

Parameters

in	str	String with rules
out	rules	Machine rules \retutn FALSE if there was an error reading from the string else TRUE

4.16 Loading_From_File.hpp

Go to the documentation of this file.

```
00001 #pragma once
00002 #include <fstream>
00003 #include "Tape.hpp"
00004 #include "Rules.hpp"
00012 bool Edit_Head(std::string str, Head&, Tape&);
00019 bool New_Rule(std::string str, Rules& rules);
00026 std::string Get_Word(std::string str, int& position);
00035 bool Loading_From_File(std::string file, Head& head, Tape& tape, Rules& rules);
```

4.17 Rules.cpp File Reference

```
#include "Rules.hpp"
```

4.18 Rules.hpp File Reference

```
#include <vector>
#include "Action.hpp"
```

Classes

• class Rules

Macros

- #define R 'R'
- #define L 'L'
- #define N 'N'

Rule class.

4.18.1 Macro Definition Documentation

4.18.1.1 L

```
#define L 'L'
```

4.18.1.2 N

#define N 'N'

Rule class.

4.18.1.3 R

#define R 'R'

4.19 Rules.hpp

Go to the documentation of this file.

```
00001 #pragma once
00002 #include <vector>
00003 #include "Action.hpp"
00004 #define R 'R'
00005 #define L 'L'
00006 #define N 'N'
00008 class Rules {
00009 public:
00013
             ~Rules();
             std::string Get_State(int position) const;
            std::string Get_Word(int position) const;
int Get_Amount_Of_States() const;
00030
          int Get_Amount_Of_Words() const;
Action* Get_Rule(int state, int word) const;
00035
00042
             void New_Rule(char move, std::string newword, std::string newstate, std::string word, std::string
00051
       state);
00058 bool Remove_Rule(std::string word, std::string state);
00063
             std::string View() const;
00064 private:
             std::vector <std::string> states;
std::vector <std::string> words;
std::vector <std::vector <Action** table;</pre>
00065
00066
00067
00068 };
```

4.20 Tape.cpp File Reference

```
#include "Tape.hpp"
```

4.21 Tape.hpp File Reference

```
#include <vector>
#include "Head.hpp"
```

Classes

class Tape

Class for implementing the machine tape.

Macros

• #define VOID ""

4.21.1 Macro Definition Documentation

4.21.1.1 VOID

```
#define VOID ""
```

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4.22 Tape.hpp

Go to the documentation of this file.

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