

projekt_zaliczeniowy

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Chapter 1

Lista jednokierunkowa.

Autor: Oskar Jonczyk

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

uj::list< T >::ConstIterator	7
uj::list< T >::Iterator	10
TestConstructors::Integer	10
uj::list< T >	11
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TestPushes	20
TestRemoveUniqueReverseSort	21
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Chapter 3

Class Index

3.1 Class List

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

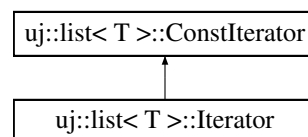
uj::list< T >::ConstIterator	7
TestConstructors::Integer	10
uj::list< T >::Iterator	10
uj::list< T >	11
uj::list< T >::Node	16
TestRemoveUniqueReverseSort::Pred	17
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Chapter 4

Class Documentation

4.1 `uj::list< T >::ConstIterator` Class Reference

Inheritance diagram for `uj::list< T >::ConstIterator`:



Public Types

- `typedef std::forward_iterator_tag iterator_category`
- `typedef T value_type`
- `typedef std::ptrdiff_t difference_type`
- `typedef const T * const_pointer`
- `typedef const T & const_reference`

Public Member Functions

- `ConstIterator ()`
- `const_reference operator* ()`
- `const_pointer operator-> ()`
- `ConstIterator & operator++ ()`
- `ConstIterator operator++ (int)`
- `bool operator== (const ConstIterator iter)`
- `bool operator!= (const ConstIterator iter)`

Private Member Functions

- `ConstIterator (Node *pos)`

Private Attributes

- [Node](#) * [current](#)

Friends

- class [list](#)

4.1.1 Detailed Description

```
template<typename T>
class uj::list< T >::ConstIterator
```

[Iterator](#) po const elementach.

4.1.2 Member Typedef Documentation

4.1.2.1 `template<typename T> typedef const T* uj::list< T >::ConstIterator::const_pointer`

Typedef dla `iterator_traits`.

4.1.2.2 `template<typename T> typedef const T& uj::list< T >::ConstIterator::const_reference`

Typedef dla `iterator_traits`.

4.1.2.3 `template<typename T> typedef std::ptrdiff_t uj::list< T >::ConstIterator::difference_type`

Typedef dla `iterator_traits`.

4.1.2.4 `template<typename T> typedef std::forward_iterator_tag uj::list< T >::ConstIterator::iterator_category`

Typedef dla `iterator_traits`.

4.1.2.5 `template<typename T> typedef T uj::list< T >::ConstIterator::value_type`

Typedef dla `iterator_traits`.

4.1.3 Constructor & Destructor Documentation

4.1.3.1 `template<typename T> uj::list< T >::ConstIterator::ConstIterator (Node * pos) [inline], [private]`

Konstruktor przyjmujący element od którego chcemy zacząć.

4.1.3.2 `template<typename T> uj::list< T >::ConstIterator::ConstIterator () [inline]`

Konstruktor domyslny.

4.1.4 Member Function Documentation

4.1.4.1 `template<typename T> bool uj::list< T >::ConstIterator::operator!= (const ConstIterator iter) [inline]`

Porownuje czy pozycje iteratorow sa rozne.

4.1.4.2 `template<typename T> const_reference uj::list< T >::ConstIterator::operator* () [inline]`

Zwraca wartosc bierzacego elementu.

4.1.4.3 `template<typename T> ConstIterator& uj::list< T >::ConstIterator::operator++ () [inline]`

Preinkrementacja.

4.1.4.4 `template<typename T> ConstIterator uj::list< T >::ConstIterator::operator++ (int) [inline]`

Postinkrementacja.

4.1.4.5 `template<typename T> const_pointer uj::list< T >::ConstIterator::operator-> () [inline]`

Zwraca wskaznik na wartosc bierzacego elementu.

4.1.4.6 `template<typename T> bool uj::list< T >::ConstIterator::operator== (const ConstIterator iter) [inline]`

Porownuje czy pozycje iteratorow sa rowne.

4.1.5 Member Data Documentation

4.1.5.1 `template<typename T> Node* uj::list< T >::ConstIterator::current [private]`

Wskaznik na bierzacy element.

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

- `C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/uj_list.hpp`

4.2 TestConstructors::Integer Class Reference

Public Attributes

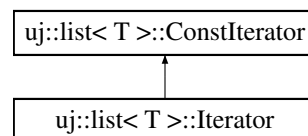
- int **a** = 5

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.3 `uj::list< T >::Iterator` Class Reference

Inheritance diagram for `uj::list< T >::Iterator`:



Public Types

- typedef T * **pointer**
- typedef T & **reference**
- typedef std::forward_iterator_tag **iterator_category**
- typedef T **value_type**
- typedef std::ptrdiff_t **difference_type**

Public Member Functions

- [Iterator](#) ()
- reference [operator*](#) ()
- pointer [operator->](#) ()
- [Iterator](#) [operator++](#) (int)
- [Iterator](#) & [operator++](#) ()

Private Member Functions

- [Iterator](#) ([Node](#) *pos)

Friends

- class **list**

4.3.1 Detailed Description

```
template<typename T>
class uj::list< T >::iterator
```

[Iterator](#) po zwyklych elementach. Dziedziczy po [ConstIterator](#).

4.3.2 Constructor & Destructor Documentation

4.3.2.1 `template<typename T> uj::list< T >::iterator::iterator (Node * pos) [inline], [private]`

Konstruktor przyjmujący startową pozycję.

4.3.2.2 `template<typename T> uj::list< T >::iterator::iterator () [inline]`

Konstruktor domyślny

4.3.3 Member Function Documentation

4.3.3.1 `template<typename T> reference uj::list< T >::iterator::operator*() [inline]`

Zwraca wartość bieżącego elementu.

4.3.3.2 `template<typename T> pointer uj::list< T >::iterator::operator->() [inline]`

Zwraca wskaźnik na wartość bieżącego elementu.

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

- `C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/uj_list.hpp`

4.4 `uj::list< T >` Class Template Reference

```
#include <uj_list.hpp>
```

Classes

- class [ConstIterator](#)
- class [Iterator](#)
- class [Node](#)

Public Types

- typedef T [value_type](#)
- typedef T * [pointer](#)
- typedef const T * [const_pointer](#)
- typedef T & [reference](#)
- typedef const T & [const_reference](#)
- typedef [Iterator](#) [iterator](#)
- typedef size_t [size_type](#)
- typedef std::ptrdiff_t [difference_type](#)
- typedef [ConstIterator](#) [const_iterator](#)

Public Member Functions

- [list](#) ()
- [list](#) ([size_type](#) n, const [value_type](#) &val)
- [list](#) & [operator=](#) (const [list](#) &other)
- [list](#) (const [list](#) &other)
- template<class InputIterator >
 [list](#) (InputIterator first, InputIterator last)
- template<class InputIterator >
 void [assign](#) (InputIterator first, InputIterator last)
- void [assign](#) ([size_type](#) n, const [value_type](#) &val)
- void [swap](#) ([list](#) &other)
- void [resize](#) ([size_type](#) n, [value_type](#) val=[value_type](#)())
- void [remove](#) (const [value_type](#) &val)
- template<class Predicate >
 void [remove_if](#) (Predicate pred)
- template<typename Predicate >
 void [unique](#) (Predicate equal)
- template<typename Predicate >
 void [sort](#) (Predicate comp)
- void [sort](#) ()
- template<typename Predicate >
 void [merge](#) ([list](#) &x, Predicate comp)
- void [merge](#) ([list](#) &x)
- void [reverse](#) ()
- void [unique](#) ()
- bool [empty](#) () const
- [iterator](#) [begin](#) ()
- [iterator](#) [end](#) ()
- [const_iterator](#) [begin](#) () const
- [const_iterator](#) [end](#) () const
- [iterator](#) [insert](#) ([Iterator](#) pos, const T &value)
- [size_type](#) [size](#) () const
- void [pop_front](#) ()
- void [pop_back](#) ()
- void [clear](#) ()
- ~[list](#) ()
- void [push_back](#) (const T &val)
- void [push_front](#) (const T &val)
- void [splice](#) ([Iterator](#) position, [list](#) &x)
- void [splice](#) ([Iterator](#) position, [list](#) &x, [iterator](#) i)
- void [splice](#) ([Iterator](#) position, [list](#) &x, [iterator](#) first, [iterator](#) last)
- [iterator](#) [erase](#) ([Iterator](#) pos)
- [reference](#) [front](#) ()
- [reference](#) [back](#) ()

Private Attributes

- `Node * head`
- `Node * tail`
- unsigned int `size_`

4.4.1 Detailed Description

```
template<typename T>  
class uj::list< T >
```

Lista jednokierunkowa.

4.4.2 Member Typedef Documentation

4.4.2.1 `template<typename T> typedef ConstIterator uj::list< T >::const_iterator`

Dla `iterator_traits`

4.4.2.2 `template<typename T> typedef const T* uj::list< T >::const_pointer`

Dla `iterator_traits`

4.4.2.3 `template<typename T> typedef const T& uj::list< T >::const_reference`

Dla `iterator_traits`

4.4.2.4 `template<typename T> typedef std::ptrdiff_t uj::list< T >::difference_type`

Dla `iterator_traits`

4.4.2.5 `template<typename T> typedef Iterator uj::list< T >::iterator`

Dla `iterator_traits`

4.4.2.6 `template<typename T> typedef T* uj::list< T >::pointer`

Dla `iterator_traits`

4.4.2.7 `template<typename T> typedef T& uj::list< T >::reference`

Dla `iterator_traits`

4.4.2.8 `template<typename T> typedef size_t uj::list< T >::size_type`

Dla iterator_traits

4.4.2.9 `template<typename T> typedef T uj::list< T >::value_type`

Dla iterator_traits

4.4.3 Constructor & Destructor Documentation

4.4.3.1 `template<typename T> uj::list< T >::list () [inline]`

Konstruktor domyslny listy. Konstruuje pierwszy element i ustawia wartosci zmiennych.

4.4.3.2 `template<typename T> uj::list< T >::list (const list< T > & other) [inline]`

Konstruktor kopiujacy.

4.4.3.3 `template<typename T> uj::list< T >::~~list () [inline]`

Destruktor.

4.4.4 Member Function Documentation

4.4.4.1 `template<typename T> template<class InputIterator > void uj::list< T >::assign (InputIterator first, InputIterator last) [inline]`

Sprawdza czy lista jest pusta.

4.4.4.2 `template<typename T> iterator uj::list< T >::begin () [inline]`

Zwraca iterator na pierwszym elemencie.

4.4.4.3 `template<typename T> const_iterator uj::list< T >::begin () const [inline]`

Zwraca const_iterator na pierwszym elemencie.

4.4.4.4 `template<typename T> void uj::list< T >::clear () [inline]`

Czysta liste do rozmiaru 0.

4.4.4.5 `template<typename T> iterator uj::list< T >::end () [inline]`

Zwraca iterator na ostatnim elemencie.

4.4.4.6 `template<typename T> const_iterator uj::list< T >::end () const [inline]`

Zwraca `const_iterator` na ostatnim elemencie.

4.4.4.7 `template<typename T> iterator uj::list< T >::erase (iterator pos) [inline]`

Usuwa element na podanej pozycji.

4.4.4.8 `template<typename T> iterator uj::list< T >::insert (iterator pos, const T & value) [inline]`

Umieszcza element w liście na podanej pozycji.

Parameters

<i>pos</i>	iterator na pozycji gdzie chcemy wstawić.
<i>value</i>	Wartość jaką chcemy wstawić do listy.

Returns

Returns `pos`.

4.4.4.9 `template<typename T> list& uj::list< T >::operator= (const list< T > & other) [inline]`

Operator przypisania.

4.4.4.10 `template<typename T> void uj::list< T >::pop_front () [inline]`

Usuwa pierwszy element listy.

4.4.4.11 `template<typename T> void uj::list< T >::push_back (const T & val) [inline]`

Wstawia element na koniec listy.

4.4.4.12 `template<typename T> void uj::list< T >::push_front (const T & val) [inline]`

Wstawia element na początek listy.

4.4.4.13 `template<typename T> size_type uj::list< T >::size () const` `[inline]`

Zwraca rozmiar listy.

4.4.5 Member Data Documentation

4.4.5.1 `template<typename T> Node* uj::list< T >::head` `[private]`

Wsk na pierwszy i ostatni element oraz zmienny przechowująca rozmiar listy.

4.4.5.2 `template<typename T> unsigned int uj::list< T >::size_` `[private]`

Wsk na pierwszy i ostatni element oraz zmienny przechowująca rozmiar listy.

4.4.5.3 `template<typename T> Node* uj::list< T >::tail` `[private]`

Wsk na pierwszy i ostatni element oraz zmienny przechowująca rozmiar listy.

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/uj_list.hpp

4.5 `uj::list< T >::Node` Class Reference

Private Member Functions

- **Node** (const T &val, [Node](#) *next_=nullptr)

Private Attributes

- T **data**
- [Node](#) * **next**

Friends

- class **list**
- class **iterator**

4.5.1 Detailed Description

```
template<typename T>
class uj::list< T >::Node
```

Pojedynczy element listy. Zawiera pole data, wsk na następny element oraz konstruktor.

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/uj_list.hpp

4.6 TestRemoveUniqueReverseSort::Pred Class Reference

Public Member Functions

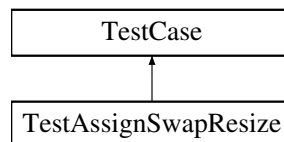
- bool **operator()** (double a)

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

- C:/Users/ojunc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.7 TestAssignSwapResize Class Reference

Inheritance diagram for TestAssignSwapResize:



Public Member Functions

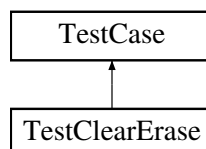
- void **runTest** ()

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

- C:/Users/ojunc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.8 TestClearErase Class Reference

Inheritance diagram for TestClearErase:



Public Member Functions

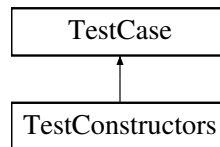
- void **runTest** ()

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

- C:/Users/ojunc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.9 TestConstructors Class Reference

Inheritance diagram for TestConstructors:



Classes

- class [Integer](#)

Public Member Functions

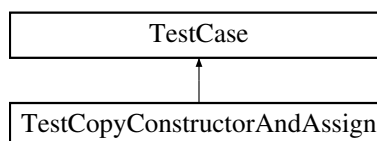
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.10 TestCopyConstructorAndAssign Class Reference

Inheritance diagram for TestCopyConstructorAndAssign:



Public Member Functions

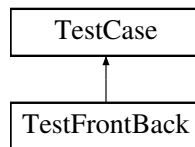
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.11 TestFrontBack Class Reference

Inheritance diagram for TestFrontBack:



Public Member Functions

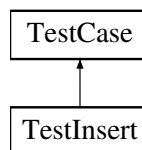
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.12 TestInsert Class Reference

Inheritance diagram for TestInsert:



Public Member Functions

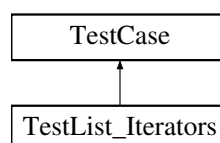
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.13 TestList_Iterators Class Reference

Inheritance diagram for TestList_Iterators:



Public Member Functions

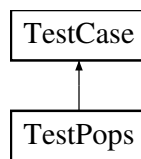
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.14 TestPops Class Reference

Inheritance diagram for TestPops:



Public Member Functions

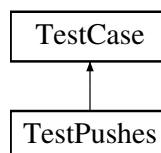
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.15 TestPushes Class Reference

Inheritance diagram for TestPushes:



Public Member Functions

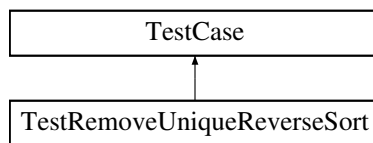
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.16 TestRemoveUniqueReverseSort Class Reference

Inheritance diagram for TestRemoveUniqueReverseSort:



Classes

- class [Pred](#)

Public Member Functions

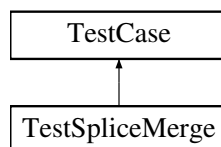
- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

4.17 TestSpliceMerge Class Reference

Inheritance diagram for TestSpliceMerge:



Public Member Functions

- void **runTest** ()

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

- C:/Users/ojonc_000/Desktop/projekt_Zaliczeniowy/main/main/list_tester.hpp

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- assign
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- begin
 - uj::list, [14](#)
- clear
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