projekt_zaliczeniowy

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Autor: Oskar Jonczyk

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2.1 Class Hierarchy

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

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Class Index

3.1 Class List

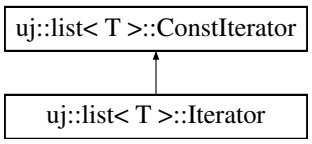
Here are the classes, structs, unions and interfaces with brief descriptions:

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 przyjmujacy element od ktorego chcemy zaczac.

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

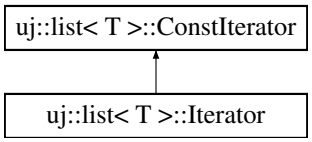
- int **a** = 5

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 przyjmujacy startowa pozycje.

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

Konstruktor domyslny

4.3.3 Member Function Documentation

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

Zwraca wartosc bierzacego elementu.

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

Zwraca wskaznik na wartosc bierzacego 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]

Kontruktor 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]

Czysci 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 liscie na podanej pozycji.

Parameters

pos	Iterator na pozycji gdzie chcemy wstawić.
value	Wartosc jaka chcemy wstawic 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 poczatek 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 przechowywujaca rozmiar listy.

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

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

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

Wsk na pierwszy i ostatni element oraz zmienny przechowywujaca 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 nastepny 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

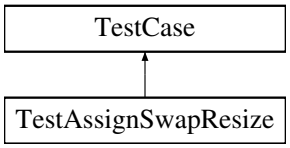
- bool **operator()** (double a)

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

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

4.7 TestAssignSwapResize Class Reference

Inheritance diagram for TestAssignSwapResize:



Public Member Functions

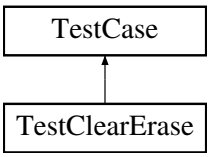
- void **runTest** ()

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

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

4.8 TestClearErase Class Reference

Inheritance diagram for TestClearErase:



Public Member Functions

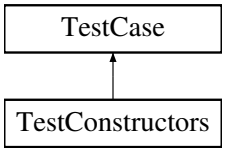
- void **runTest** ()

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

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

4.9 TestConstructors Class Reference

Inheritance diagram for TestConstructors:



Classes

- class Integer

Public Member Functions

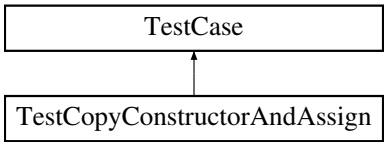
- void **runTest** ()

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

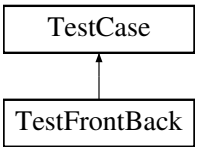
- void **runTest** ()

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

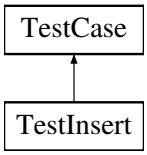
- void **runTest** ()

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

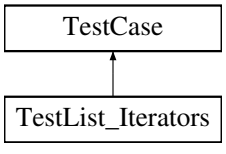
- void **runTest** ()

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

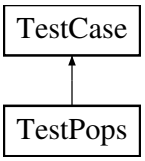
- void **runTest** ()

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

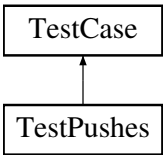
- void **runTest** ()

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

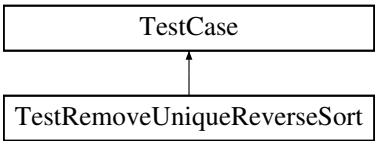
- void **runTest** ()

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

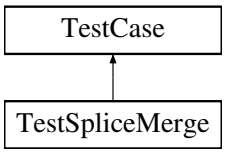
- void **runTest** ()

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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