CODESYS STORE

Element Collections Examples

The CODESYS package “Element Collections Examples” contains sample projects for using the library “Element Collections” library.

Product description

The CODESYS library “Element Collections” contains function blocks for lists, queues, stacks, and hash tables. The elements of collections are instances of function blocks of type `IElement`. The sample project “Element Collections Examples” demonstrates how to use individual components.

More information

The sample project includes the following applications:

ElementExample

Example of creating instances of type `IElement`. `IElement` is the basic interface of all elements of a collection.

OnlineChangeSafeLinkedListExample

Example of linked lists that are safe from an online change.

SimpleHashTableExample

Example of how to use the `HashTable` function block.

SimpleLinkedListExample

Example of how to use the `LinkedList` function block. The `LinkedList` function block does not have index access and it can be extended dynamically.

SimpleListExample

Example of how to use the `List` function block. The `List` function block has methods with index access to the following elements: `GetElementAt`, `InsertElementAt`, `RemoveElementAt`, and `SetElementAt`.

SimpleQueueExample

Example of how to use the `Queue` function block. The `Queue` function block works according to the FIFO principle (first in, first out).

SimpleSortedListExample

Example of how to use the `SortedList` function block. The elements of a `SortedList` are sorted by the `ElementCompareTo` method of IElement.

SimpleStackExample

Example of how to use the `Stack` function block. The `Stack` function block works according to the LIFO principle (last in, first out).

SimpleTreeNodeExample

Example of how to use the `TreeNode` function block. With the `TreeNode` function block, tree structures can be built

DynamicListExample

Example for using the function module `ListFactory`. You can use the function module `ListFactory` to create lists at runtime. These lists can be parameterized with a fixed size and also with an initial size with growth factor. The example demonstrates the general handling of a collection factory. The `QueueFactory`, `SortedListFactory`, `StackFactory` and `TreeNodeFactory` work according to the same pattern.

General information

Manufacturer:

3S-Smart Software Solutions GmbH
Memminger Strasse 151
87439 Kempten
Germany

Support:

https://support.codesys.com

Item:
Element Collections Examples
Item number:
000095
Sales:

CODESYS Store
https://store.codesys.com

Included in delivery:
CODESYS Package

System requirements and restrictions

Programming system	CODESYS Development System V3.5.14.0
Runtime system	CODESYS Control V3.5.14.0
Supported platforms and devices	Note: Use the “Device Reader” product for locating the functions (licenses) supported by the PLC. The product is available in the CODESYS Store free of charge.
Additional requirements	•
Restrictions	
Licensing	•
Required accessories	•

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.
Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.