SafeStack

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Chapter 1

Class Index

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Here are the classes, structs, unions and interfaces with brief descriptions:		
SafeStack< Type >	3	

2 Class Index

Chapter 2

Class Documentation

2.1 SafeStack < Type > Class Template Reference

```
#include <SafeStack.h>
```

Public Types

enum ErrorCodes {
 OK, ErrorCountSize, ErrorPoison, ErrorCheckSum,
 ErrorPop, ErrorPush, ErroKanareika }

Public Member Functions

- SafeStack (Type poison_)
- ErrorCodes isUnchanged () const
- ErrorCodes pop ()
- ErrorCodes push (Type element)
- Type getFrontUnsafe () const
- std::pair < Type, ErrorCodes > getFrontSafe ()

2.1.1 Detailed Description

```
template<typename Type> class SafeStack< Type >
```

SafeStack not look for own memory carefully

Template Parameters

Type - type of elements in stack must have hash() function

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2.1.2 Member Enumeration Documentation

2.1.2.1 ErrorCodes

```
template<typename Type >
enum SafeStack::ErrorCodes
```

Enumerator

OK	Everything is OK // 0.	
ErrorCountSize	Size of Count is too big or small // 1.	
ErrorPoison	Posion value not in array // 2.	
ErrorCheckSum	Current Checksum is unequal with saved Checksum // 3.	
ErrorPop	Nothin to Pop // 4.	
ErrorPush	Container is full // 5.	
ErroKanareika	Kanareika is not equal to 0xBEDABEDA // 6.	

2.1.3 Constructor & Destructor Documentation

2.1.3.1 SafeStack()

Fill container with poison_ value, count checksum

Parameters

poison⊷	- element that will not be in stack

2.1.4 Member Function Documentation

2.1.4.1 getFrontSafe()

```
template<typename Type >
std::pair< Type, typename SafeStack< Type >::ErrorCodes > SafeStack< Type >::getFrontSafe ()
```

Returns

pair where first element - is Front element if exists, else Poison value. second - ErrorCode

2.1.4.2 getFrontUnsafe()

```
template<typename Type >
Type SafeStack< Type >::getFrontUnsafe ( ) const
```

CAUTION!!! - Not use it if you are not sure!!!

Returns

front element without checking

2.1.4.3 isUnchanged()

```
template<typename Type >
SafeStack< Type >::ErrorCodes SafeStack< Type >::isUnchanged ( ) const
```

Check if checksum not changed

Returns

ErrorCode

2.1.4.4 pop()

```
template<typename Type >
SafeStack< Type >::ErrorCodes SafeStack< Type >::pop ( )
```

Remove Last element If it has no last element error returned

Returns

ErrorCode

2.1.4.5 push()

Add element to front If stack is full returns Error

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Parameters

element	- element to push
---------	-------------------

Returns

ErrorCode

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

- SafeStack/SafeStack.h
- SafeStack/SafeStack.cpp