

# Pair Class Documentation

Source File:   Utils.h  
Namespace:    aa  
Class Header:  template <class V> class Pair : public Object

## Overview

The *Pair* class is a container class for an unsigned integer key and a generic value object.

## Constructors

- Pair() (default constructor)
  - **Purpose:** Initializes the key to 0 and value to the default value of the generic type.
- Pair(const Pair<V>& obj) (copy constructor)
  - **Purpose:** Constructs a deep copy of *obj*.
  - **Parameter(s):**
    - *obj*: Constant *Pair* reference object.
- Pair(size\_t key, const V& value)
  - **Purpose:** Initializes the key to *key* and the value to *value*
  - **Parameter(s):**
    - *key*: An unsigned integer.
    - *value*: A generic type object.

## Destructor

- ~Pair()
  - **Purpose:** Does nothing.

## Assignment Operators

- operator=(const Pair<T>& rhs)
  - **Purpose:** Constructs a deep copy of *rhs*.
  - **Parameter(s):**
    - *rhs*: Constant *Pair* reference object.
  - **Return:** \*this.

## Methods

- Key() const  
Key()
  - **Purpose:** Gets the key of the pair.
  - **Return:** The key.
- Value() const  
Value()
  - **Purpose:** Gets the value of the pair.
  - **Return:** The value.
- toString() const
  - **Purpose:** Provides a string representation of the *Pair* object.
  - **Return:** A string representation of the value.