

MiscStorageCursorPositioning

Adopted By: MiscStorage

Declared In: MiscProtocols.h

Protocol Description

The **MiscStorageCursorPositioning** protocol is a set of calls for a Storage class for moving through. These methods let you set a *cursor* which keeps track of the current positioning in a StorageStorage class. The rest of the methods allow a program to move forward, backward, and to determine the current position. This protocol is designed for loop constructs.

Method Types

Setting the position - setFirstElement

- setLastElement
- setNextElement
- setPreviousElement
- setTo:

Querying the position

- currentPosition

Instance Methods

currentPosition

- (unsigned int)**currentPosition**

Returns the index of the record to which the cursor is currently pointing.

setFirstElement

- (void *)**setFirstElement**

Sets the cursor to point to the first record in the container and returns that record. Returns **nil** if the container holds no records.

setLastElement

- (void *)**setLastElement**

Sets the cursor to point to the last record in the container and returns that record. Returns **nil** if the container holds no records.

setNextElement

- (void *)**setNextElement**

Sets the cursor to point to the next record in the container and returns that record. Returns **nil** and doesn't move the cursor if it's currently pointing to the last record.

setPreviousElement

- (void *)**setPreviousElement**

Sets the cursor to point to the previous record in the container and returns that record. Returns **nil** and doesn't move the cursor if it's currently pointing to the first record.

setTo:

- (void *)**setTo:(unsigned int)*index***

Sets the cursor to point to the *index*'th record in the container and returns that record. Returns **nil** and doesn't move the cursor if *index* is out of bounds.