# **Project 4**

Tanner Jones 1.0 Version 9/23/2015

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# **Class Documentation**

# **DateType Class Reference**

#### **Public Member Functions**

• DateType ()

Default constructor.

• **DateType** (char \*newDate) *Initialization constructor*.

## **Public Attributes**

• char date [STD\_STR\_LEN]

## **Static Public Attributes**

• static const int **STD\_STR\_LEN** = 25

## **Constructor & Destructor Documentation**

DateType::DateType ()

Default constructor.

Constructs empty **DateType** 

Parameters:

None

Note:

None

DateType::DateType (char \* newDate)

Initialization constructor.

Constructs **DateType** with data components

Parameters:

in new data, in string form

Note:

None

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

- DateType.h
- DateType.cpp

# **SimpleTimer Class Reference**

## **Public Member Functions**

• SimpleTimer ()

Default constructor.

• ~SimpleTimer ()

Default constructor.

• void start ()

Start control.

• void stop ()

Stop control.

void getElapsedTime (char \*timeStr)

#### **Static Public Attributes**

- static const char **NULL\_CHAR** = '\0'
- static const char RADIX\_POINT = '.'

# **Constructor & Destructor Documentation**

## SimpleTimer::SimpleTimer ()

Default constructor.

Constructs Timer class

### Parameters:

None

Note:

set running flag to false

## SimpleTimer::~SimpleTimer ()

Default constructor.

**Destructs Timer class** 

#### Parameters:

None

#### Note:

No data to clear

### **Member Function Documentation**

## void SimpleTimer::start ()

Start control.

Takes initial time data

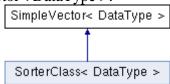
Parameters:		
None		
Note:		
None		
d SimpleTimer::	stop ()	
Stop control.		
Takes final time	data, calculates duration	
Parameters:		
None		
Tione		
Note:		

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

- SimpleTimer.h SimpleTimer.cpp

# SimpleVector< DataType > Class Template Reference

Inheritance diagram for SimpleVector< DataType >:



#### **Public Member Functions**

• SimpleVector ()

Default constructor.

• SimpleVector (int newCapacity)

Initialization constructor.

• **SimpleVector** (int newCapacity, const DataType &fillValue) *Initialization constructor*.

• SimpleVector (const SimpleVector &copiedVector)

Copy constructor.

• ~SimpleVector ()

object destructor

• const **SimpleVector** & **operator**= (const **SimpleVector** &rhVector) assignment operation overload

• int getCapacity () const

vector capacity accessor

• int **getSize** () const

vector size accessor

DataType & operator[] (int index) throw (logic\_error)
 vector overloaded bracket operation

• const DataType & **operator**[] (int index) const throw (logic\_error) vector overloaded bracket operation

• void **setValueAt** (int index, const DataType &item) throw (logic\_error) *vector data setting operation* 

• void **getValueAt** (int index, DataType &item) const throw (logic\_error) vector data getting operation

• void **grow** (int growBy)

vector resize larger operation

• void **shrink** (int shrinkBy) throw (logic\_error) vector resize smaller operation

• void incrementSize ()

vector size mutator - increase

• void decrementSize ()

vector size mutator - decrease

#### Static Public Attributes

• static const int **DEFAULT\_CAPACITY** = 10

#### **Constructor & Destructor Documentation**

#### template<class DataType > SimpleVector< DataType >::SimpleVector ()

Default constructor.

Constructs vector capacity to default and vector size to zero creates default size data array

#### Parameters:

_		
	None	
	rvone	

#### Note:

None

## template<class DataType > SimpleVector< DataType >::SimpleVector (int newCapacity)

Initialization constructor.

Constructs vector capacity to given capacity and vector size to zero creates array of given capacity size

#### Parameters:

in	capacity with which to initialize vector	
----	------------------------------------------	--

#### Note:

None

# template<class DataType> SimpleVector< DataType>::SimpleVector (int newCapacity, const DataType & fillValue)

Initialization constructor.

Constructs vector to given capacity and zero size and sets each element to given fill value

#### Parameters:

in	capacity with which to initialize vector
in	fill value with which to initialize each element

#### Note:

None

# template<class DataType> SimpleVector< DataType >::SimpleVector (const SimpleVector< DataType > & copiedVector)

Copy constructor.

Constructs vector capacity to default and vector size to zero creates default size data array

### Parameters:

in	Other vector with which this vector is constructed
----	----------------------------------------------------

#### Note:

Uses copyVector to move data into this vector

#### template<class DataType > SimpleVector< DataType >::~SimpleVector ()

object destructor

If capacity is greater than zero, releases memory to system

# Parameters: None Note: None **Member Function Documentation** template<class DataType > void SimpleVector< DataType >::decrementSize () vector size mutator - decrease decreases vector size count Parameters: None Note: has no effect on operation of vector; provided as convenience to user/programmer template<class DataType > int SimpleVector< DataType >::getCapacity () const vector capacity accessor returns capacity of this vector Parameters: None Note: None template<class DataType > int SimpleVector< DataType >::getSize () const vector size accessor returns size of this vector Parameters: None Note: None template<class DataType> void SimpleVector< DataType >::getValueAt (int index, DataType & item) const throw logic\_error) vector data getting operation allows direct access of the data from the vector Parameters: in index of element to be assigned data item to be retrieved from array in

#### Note:

throws logic error if index is out of bounds

## template<class DataType > void SimpleVector< DataType >::grow (int growBy)

vector resize larger operation

increases vector capacity by amount given in parameter

#### Parameters:

in	delta size for growth of vector

#### Note:

creates new data list, copies using copyVector, then deletes old list

## template<class DataType > void SimpleVector< DataType >::incrementSize ()

vector size mutator - increase

increases vector size count

#### Parameters:

None				
------	--	--	--	--

#### Note:

has no effect on operation of vector; provided as convenience to user/programmer

# template<class DataType > const SimpleVector< DataType > & SimpleVector< DataType >::operator= (const SimpleVector< DataType > & rhVector)

assignment operation overload

Assigns data from right-hand object to this object

#### Parameters:

in right-hand vector object
-----------------------------

#### Note:

Uses copyVector to move data into this vector

# template<class DataType > DataType & SimpleVector< DataType >::operator[] (int index) throw logic\_error)

vector overloaded bracket operation

allows assignment of data to element in this vector

#### Parameters:

in index of element to be assigned
------------------------------------

#### Note:

throws logic error if index is out of bounds

# template<class DataType > const DataType & SimpleVector< DataType >::operator[] (int index) const throw logic\_error)

vector overloaded bracket operation

allows assignment of data from element in this vector

#### Parameters:

in	index of element to be assigned

#### Note:

throws logic error if index is out of bounds

# template<class DataType> void SimpleVector< DataType >::setValueAt (int index, const DataType & item) throw logic\_error)

vector data setting operation

allows assignment of data directly to the vector

#### Parameters:

in	index of element to be assigned
in	data item to be stored in array

#### Note:

throws logic error if index is out of bounds

# template<class DataType > void SimpleVector< DataType >::shrink (int shrinkBy) throw logic\_error)

vector resize smaller operation

decreases vector capacity by amount given in parameter

#### Parameters:

#### Note:

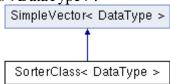
creates new data list, copies using copyVector, then deletes old list vector does not check size before capacity reduction; if capacity is reduced to less than size, data will be lost

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

- SimpleVector.h
- SimpleVector.cpp

# SorterClass< DataType > Class Template Reference

Inheritance diagram for SorterClass< DataType >:



#### **Public Member Functions**

• SorterClass ()

Default constructor.

• SorterClass (int initialCapacity)

Initialization constructor.

• SorterClass (const SorterClass< DataType > &copiedSorter)

Copy constructor.

virtual ~SorterClass ()

Class destructor.

• virtual void **add** (const DataType &addedObject)

add item to sorter list

• virtual int **compareTo** (const DataType &lhObject, const DataType &rhObject) *Object comparison, necessary for sorting.* 

• virtual bool **sort** () *Sorting operation.* 

#### **Additional Inherited Members**

## **Constructor & Destructor Documentation**

## template<typename DataType > SorterClass< DataType >::SorterClass ()

Default constructor.

Constructs sorter class with default vector class initialization

#### Parameters:

None	

### Note:

None

#### template<typename DataType > SorterClass< DataType >::SorterClass (int initialCapacity)

Initialization constructor.

Constructs sorter class with specified vector class initialization

#### Parameters:

in	initia	l capacity

N	^	+	Δ	•

None

# template<typename DataType> SorterClass< DataType >::SorterClass (const SorterClass< DataType > & copiedSorter)

Copy constructor.

Constructs sorter class with copied object

#### Parameters:

in	other SorterClass object

#### Note:

None

## template<typename DataType > SorterClass< DataType >::~SorterClass ()[virtual]

Class destructor.

Destructs sorter class

#### Parameters:

Γ	in	None

#### Note:

Implements **SimpleVector** destructor

#### **Member Function Documentation**

# template<typename DataType> void SorterClass< DataType >::add (const DataType & addedObject)[virtual]

add item to sorter list

adds item to list for sorting

#### Parameters:

	in	object to be added
_		

#### Note:

None

# template<typename DataType> int SorterClass< DataType >::compareTo (const DataType & IhObject, const DataType & rhObject)[virtual]

Object comparison, necessary for sorting.

Compares objects mathematically, returns value < 0 if lhO < rhO returns 0 if lhO = rhO returns value > 0 if lhO > rhO

#### Parameters:

in	Left hand object, right hand object

#### Note:

Simple mathematical base operation; assumed to be overridden Reimplemented in **TestSorter** (p.17).

# template<typename DataType > bool SorterClass< DataType >::sort ()[virtual]

Sorting operation.

Virtual sort method that can be overridden to use various sorting strategies

#### Parameters:

in	None
ın	None

#### Note:

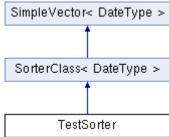
None, virtual method takes no action, assumed to be overridden Reimplemented in **TestSorter** (p.19).

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

- SorterClass.h
- SorterClass.cpp

## **TestSorter Class Reference**

Inheritance diagram for TestSorter:



#### **Public Member Functions**

• TestSorter ()

Default constructor.

• ~TestSorter ()

~TestSorter

- void **extractionLoop** (const **DateType** object, char \*dummy) extractionLoop
- void **extraction** (int &day, char \*month, int &year, const **DateType** &object) *Default extraction*.
- virtual int **compareTo** (const **DateType** &lhObject, const **DateType** &rhObject) compareTo
- int **findIndexofLargest** (int size)

findIndexofLargest

• virtual bool sort ()

sort

• void **dateSwitcher** (int lhObject, int rhObject)

dateSwitcher

• int **charToInt** (char \*number)

charToInt

• void lowerToUpper (char \*month)

lowerToUpper

- bool **myCompare** (const char \*stringOne, const char \*stringTwo) *myCompare*
- int **monthNumberTester** (char \*month) *monthNumberTest*

#### **Additional Inherited Members**

#### **Constructor & Destructor Documentation**

TestSorter::TestSorter()

Default constructor.

None	
Note:	
None	
stSorter::~TestSo	orter ()
~TestSorter	
deconstruct of tes	st sorter class
Parameters:	
None	
Note:	
None	
TestSorter::char	Tolnt (char * <i>number</i> )
charToInt	
switchs an char a	mary to an int
5 WICHS all Clial a	rray to an int
Parameters:	rray to an int
	array
Parameters: <i>char</i> Note:	•
Parameters:	•
Parameters:  char  Note: None  TestSorter::com	•
Parameters:  char  Note: None  TestSorter::com  compareTo	array  pareTo (const DateType & IhObject, const DateType & rhObject)[virte
Parameters:  char  Note: None  TestSorter::com  compareTo compares two diff	array
Parameters:  char  Note: None  TestSorter::com  compareTo compares two diff Parameters:	pareTo (const DateType & IhObject, const DateType & rhObject) [virte
Parameters:    char     Note:     None     TestSorter::com     compareTo     compares two difference in the compare in the com	array  pareTo (const DateType & IhObject, const DateType & rhObject)[virte
Parameters:  char  Note: None  TestSorter::com  compareTo compares two diff Parameters:	pareTo (const DateType & IhObject, const DateType & rhObject) [virte
Parameters:    char     Note:     None     TestSorter::com     compareTo     compares two dift     Parameters:     simple     Note:     None	pareTo (const DateType & IhObject, const DateType & rhObject) [virte
Parameters:    char     Note:	pareTo (const DateType & IhObject, const DateType & rhObject) [virtal ferent dataTypes and figures out which one is greater    vector has already been filled     vector SorterClass   vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector
Parameters:    char     Note:	pareTo (const DateType & IhObject, const DateType & rhObject) [virtal]  iferent dataTypes and figures out which one is greater  vector has already been filled
Parameters:    char     Note:	pareTo (const DateType & IhObject, const DateType & rhObject) [virtal ferent dataTypes and figures out which one is greater    vector has already been filled     vector SorterClass   vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector
Parameters:  char  Note: None  TestSorter::com  compareTo compares two did  Parameters: simple  Note: None Reimplemented frod d TestSorter::dat  dateSwitcher	pareTo (const DateType & IhObject, const DateType & rhObject) [virtal ferent dataTypes and figures out which one is greater    vector has already been filled     vector SorterClass   vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector part     vector part   vector
Parameters:  char  Note: None  TestSorter::com  compareTo compares two did  Parameters: simple  Note: None Reimplemented frod d TestSorter::dat  dateSwitcher	pareTo (const DateType & IhObject, const DateType & rhObject) [virtal ferent dataTypes and figures out which one is greater  vector has already been filled  om SorterClass< DateType > (p.14).  teSwitcher (int IhObject, int rhObject)

## void TestSorter::extraction (int & day, char \* month, int & year, const DateType & object)

Default extraction.

Takes apart the date and splits into three different test subjects

#### Parameters:

#### Note:

None

## void TestSorter::extractionLoop (const DateType object, char \* dummy)

extractionLoop

loops through date and copying the string

#### Parameters:

a	DateType and a char array
1 ***	= 0000 = J P = 0000

#### Note:

None

## int TestSorter::findIndexofLargest (int size)

find Ind ex of Largest

goes through the whole vector and finds the largest value

#### Parameters:

simple	vector has already been filled	
--------	--------------------------------	--

#### Note:

size

# void TestSorter::lowerToUpper (char \* month)

lowerToUpper

switchs a char from lower to upper case

#### Parameters:

an	array that holds the months

#### Note:

None

## int TestSorter::monthNumberTester (char \* month)

monthNumberTest

sets a value for each month

#### Parameters:

	an	array for the month
-		

#### Note:

None

# bool TestSorter::myCompare (const char \* stringOne, const char \* stringTwo)

myCompare

compares two strings to see if they are similar

#### Parameters:

to	char arrays	
110	Charafrays	

#### Note:

None

# bool TestSorter::sort ()[virtual]

sort

goes through the whole vector and sorts

#### Parameters:

			_
simple	vector has already been filled	vector has alread	1

#### Note:

None

Reimplemented from **SorterClass< DateType >** (p.15).

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

- TestSorter.h
- TestSorter.cpp

# **File Documentation**

# **DateType.cpp File Reference**

Implementation file for DateType class.
#include "DateType.h"
#include <cstring>

## **Functions**

ostream & operator<< (ostream &outStream, const DateType &dateItem)</li>
 ostream output operator

# **Detailed Description**

Implementation file for **DateType** class.

Implements the constructor method of the **DateType** class

## **Author:**

Michael Leverington

#### Version:

1.00 (11 September 2015)

Requires DateType.h

## **Function Documentation**

ostream& operator<< (ostream & outStream, const DateType & dateItem)

ostream output operator

Free function outputs **DateType** to stream

#### Parameters:

in	ostream file object
in	DateType data item

#### Note:

None

# DateType.h File Reference

Definition file for **DateType** class.

#include <ostream>

## **Classes**

class DateType

## **Functions**

• ostream & operator<< (ostream &outStream, const DateType &dateItem) ostream output operator

# **Detailed Description**

Definition file for **DateType** class.

Specifies all data of the **DateType** class, along with the constructor, **DateType** class is entered and stored as a string

#### **Author:**

Michael Leverington

## Version:

1.00 (11 September 2015)

None

## **Function Documentation**

ostream& operator<< (ostream & outStream, const DateType & dateItem)

ostream output operator

Free function outputs **DateType** to stream

#### Parameters:

in	ostream file object
in	<b>DateType</b> data item

#### Note:

None

# PA04.cpp File Reference

Driver program to exercise the DateSorter class.

```
#include "DateType.h"
#include "SimpleVector.cpp"
#include "SorterClass.cpp"
#include "TestSorter.h"
#include "SimpleTimer.h"
#include <cstring>
#include <iostream>
```

#### **Functions**

- bool **getALine** (istream &consoleIn, char \*str)

  Gets dates in three parts, combines to one string.
- void **displayList** (const **TestSorter** &dates, char dispID, bool sorted) *Displays dates in order held.*
- int **main** ()

#### **Variables**

- const int **SMALL\_STR\_LEN** = 25
- const int **DISPLAY\_WIDTH\_COUNT** = 5
- const char **BREAK** [] = " "
- const char **ENDLINE\_CHAR** = '\n'
- const char **NULL\_CHAR** = '\0'
- const char **COLON** = ':'
- const bool **SORTED** = true
- const bool **UNSORTED** = false

## **Detailed Description**

Driver program to exercise the DateSorter class.

Allows for testing the DateSorter class, along with a timer class that will be used for evaluation

#### Version:

1.00 (11 September 2015)

Requires DateType.h, SimpleVector.cpp, SorterClass.cpp, TestSorter.h cstring and iostream libraries

#### **Function Documentation**

void displayList (const TestSorter & dates, char displD, bool sorted)

Displays dates in order held.

dates are displayed in a formatted way so they do not take as much vertical space

## Parameters:

in	TestSorter object

# Note:

virtual method uses specific strategy to sort objects

# bool getALine (istream & consoleIn, char \* str)

Gets dates in three parts, combines to one string.

dates are input using cin, and then recombined for string accommodates testing (Submit) system

# Parameters:

in	istream object
out	string with date

#### Note:

resolution for redirected input, getline did not work

# SimpleTimer.cpp File Reference

Implementation file for SimpleTimer class.
#include "SimpleTimer.h"

# **Detailed Description**

Implementation file for **SimpleTimer** class.

## **Author:**

Michael Leverington

Implements member methods for timing

## Version:

1.00 (11 September 2015)

Requires SimpleTimer.h.

# SimpleTimer.h File Reference

Definition file for simple timer class. #include <sys/time.h> #include <cstring>

#### Classes

• class SimpleTimer

# **Detailed Description**

Definition file for simple timer class.

#### **Author:**

Michael Leverington
Specifies all member methods of the **SimpleTimer** 

## Version:

1.00 (11 September 2015)

None

# SimpleVector.cpp File Reference

Implementation file for SimpleVector class.
#include "SimpleVector.h"

# **Detailed Description**

Implementation file for **SimpleVector** class.

#### **Author:**

Michael Leverington

Implements all member methods of the SimpleVector class

#### Version:

1.10 (11 September 2015) added getter and setter for date elements 1.00 (30 August 2015) origination Requires **SimpleVector.h** 

# SimpleVector.h File Reference

Definition file for **SimpleVector** class. #include <stdexcept>

# **Classes**

• class SimpleVector< DataType >

# **Detailed Description**

Definition file for **SimpleVector** class.

## **Author:**

Michael Leverington
Specifies all member methods of the **SimpleVector** class

## Version:

1.00 (11 September 2015)

None

# SorterClass.cpp File Reference

Implementation file for **SorterClass**.

#include "SorterClass.h"
#include "SimpleVector.h"

# **Detailed Description**

Implementation file for SorterClass.

#### **Author:**

Michael Leverington
Implements all member methods of the **SorterClass** 

## Version:

1.00 (11 September 2015)

Requires SorterClass.h, SimpleVector.h

# SorterClass.h File Reference

Definition file for Sorter class. #include "SimpleVector.h"

# **Classes**

class SorterClass< DataType >

# **Detailed Description**

Definition file for Sorter class.

#### **Author:**

Michael Leverington
Specifies all member methods of the **SorterClass** 

## Version:

1.00 (11 September 2015)

Requires SimpleVector.h

# **TestSorter.cpp File Reference**

```
Header file for the Test Sorter class.
#include "TestSorter.h"
#include "SorterClass.h"
```

## **Variables**

- const char **WHITE\_SPACE** = ' '
- const char **NULL\_CHAR** = '\0'
- const char **THREE** = 3
- const char **JAN** [] = "JAN"
- const char **FEB** [] = "FEB"
- const char **MAR** [] = "MAR"
- const char **APR** [] = "APR"
- const char **MAY** [] = "MAY"
- const char **JUN** [] = "JUN"
- const char **JUL** [] = "JUL"
- const char **AUG** [] = "AUG"
- const char **SEP** [] = "SEP"
- const char **OCT** [] = "OCT"
- const char **NOV** [] = "NOV"
- const char **DEC** [] = "DEC"

# **Detailed Description**

Header file for the Test Sorter class.

### **Author:**

**Tanner Jones** 

Implements all member methods of the TestSorter class

#### Version:

1.00 (23 September 2015))

Requires TestSorter.h

# TestSorter.h File Reference

```
Header file for the Test Sorter class.
#include "SorterClass.cpp"
#include "SimpleVector.cpp"
#include "DateType.h"
```

## **Classes**

• class TestSorter

# **Detailed Description**

Header file for the Test Sorter class.

#### Author:

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Specifies all data of the Test Sorter class, along with the constructor

#### Version:

1.00 (23 September 2015))

Requires **TestSorter.cpp** 

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