
Package sorter

sorter Class DanceSorter

java.lang.Object
 ↓
 +-sorter.DanceSorter

All Implemented Interfaces:

[ISorter](#)

public class **DanceSorter**
 extends java.lang.Object
 implements [ISorter](#)

This class rebuild the YouTube dance sorter

See Also:

<http://www.youtube.com/watch?v=ywWBy6J5gz8>

Constructor Summary

public	DanceSorter()
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Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses
java.lang.String	getSorterName() Returns the name of the sort algorithm
void	sort (int[] a) Sort the given array ascending.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [sorter.ISorter](#)

[getArrayAccessCounter](#), [getSorterName](#), [sort](#)

Constructors

DanceSorter

public **DanceSorter**()

Methods

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sort

```
public void sort(int[] a)
```

Sort the given array ascending.

Parameters:

a - An array of the items to sort

getSorterName

```
public java.lang.String getSorterName()
```

Returns the name of the sort algorithm

Returns:

A string with the name of the sort alorithm

getArrayAccessCounter

```
public long getArrayAccessCounter()
```

Returns the amount of array accesses

Returns:

Returns a amount of array accesses

sorter

Class FileWriterHtml

java.lang.Object

└--sorter.FileWriterHtml

public class **FileWriterHtml**
extends java.lang.Object

This class provides methods to write some HTML into a file Used to generate a HTML page for comparing the various sort alorithm

Constructor Summary

public	FileWriterHtml()
--------	----------------------------------

Method Summary

void	createNewFile (java.lang.String filename) Creates a new file.
static void	generateHTML (char codePart) Outputs some predefined HTML-Tags Values for codePart are: - h: header part of html file - f: footer part of html file
static void	writeLn (java.lang.String code) Writes a line of text into a given file

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

FileWriterHtml

public **FileWriterHtml**()

Methods

createNewFile

public void **createNewFile**(java.lang.String filename)

Creates a new file. If the file exists, it will be deleted

Parameters:

String - filename

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Returns:
void

generateHTML

```
public static void generateHTML(char codePart)
```

Outputs some predefined HTML-Tags Values for codePart are: - h: header part of html file - f: footer part of html file

Parameters:
char - codePart

Returns:
void

writeLn

```
public static void writeLn(java.lang.String code)
```

Writes a line of text into a given file

Parameters:
String - code

Returns:
void

sorter Class HeapSorter

java.lang.Object
└--sorter.HeapSorter

All Implemented Interfaces:
[ISorter](#)

public class **HeapSorter**
extends java.lang.Object
implements [ISorter](#)

This class implements a heap sorter

Constructor Summary

public	HeapSorter()
--------	------------------------------

Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses
java.lang.String	getSorterName() Returns the name of the sort algorithm
void	sort(int[] a) Sort the given array ascending.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [sorter.ISorter](#)

[getArrayAccessCounter](#), [getSorterName](#), [sort](#)

Constructors

HeapSorter

public **HeapSorter()**

Methods

(continued from last page)

sort

```
public void sort(int[] a)
```

Sort the given array ascending.

Parameters:

a - An array of the items to sort

getSorterName

```
public java.lang.String getSorterName()
```

Returns the name of the sort algorithm

Returns:

A string with the name of the sort alorithm

getArrayAccessCounter

```
public long getArrayAccessCounter()
```

Returns the amount of array accesses

Returns:

Returns a amount of array accesses

sorter

Class InsertionSorter

java.lang.Object

↳ **sorter.InsertionSorter**

All Implemented Interfaces:

[ISorter](#)

public class **InsertionSorter**
 extends java.lang.Object
 implements [ISorter](#)

This class implements a insertion sorter

Constructor Summary

public	InsertionSorter()
--------	-----------------------------------

Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses
java.lang.String	getSorterName() Returns the name of the sort algorithm
void	sort (int[] a) Sort the given array ascending.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [sorter.ISorter](#)

[getArrayAccessCounter](#), [getSorterName](#), [sort](#)

Constructors

InsertionSorter

public **InsertionSorter**()

Methods

(continued from last page)

sort

```
public void sort(int[] a)
```

Sort the given array ascending.

Parameters:

a - An array of the items to sort

getSorterName

```
public java.lang.String getSorterName()
```

Returns the name of the sort algorithm

Returns:

A string with the name of the sort alorithm

getArrayAccessCounter

```
public long getArrayAccessCounter()
```

Returns the amount of array accesses

Returns:

Returns a amount of array accesses

sorter

Interface ISorter

All Known Implementing Classes:

[DanceSorter](#), [HeapSorter](#), [InsertionSorter](#), [MergeSorter](#), [QuickSorter](#), [QuickSorterIterativ](#)

public interface **ISorter**
extends

This is an interface of a sorter

Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses
java.lang.String	getSorterName() Returns the name of the sort algoritm
void	sort(int[] a) An abstract sort method.

Methods

sort

public void **sort**(int[] a)

An abstract sort method.

Parameters:

a - An array of the items to sort

getSorterName

public java.lang.String **getSorterName**()

Returns the name of the sort algoritm

Returns:

A string with the name of the sort alorithm

getArrayAccessCounter

public long **getArrayAccessCounter**()

Returns the amount of array accesses

Returns:

Returns a amount of array accesses

sorter

Class MergeSorter

java.lang.Object

└--sorter.MergeSorter

All Implemented Interfaces:

[ISorter](#)

public class **MergeSorter**
 extends java.lang.Object
 implements [ISorter](#)

This class implements a merge sorter

Constructor Summary

public	MergeSorter()
--------	-------------------------------

Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses
java.lang.String	getSorterName() Returns the name of the sort algorithm
void	sort (int[] a) Sort the given array ascending.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [sorter.ISorter](#)

[getArrayAccessCounter](#), [getSorterName](#), [sort](#)

Constructors

MergeSorter

public **MergeSorter**()

Methods

(continued from last page)

sort

```
public void sort(int[] a)
```

Sort the given array ascending.

Parameters:

a - An array of the items to sort

getSorterName

```
public java.lang.String getSorterName()
```

Returns the name of the sort algorithm

Returns:

A string with the name of the sort alorithm

getArrayAccessCounter

```
public long getArrayAccessCounter()
```

Returns the amount of array accesses

Returns:

Returns a amount of array accesses

sorter Class QuickSorter

java.lang.Object
└--sorter.QuickSorter

All Implemented Interfaces:
[ISorter](#)

public class **QuickSorter**
extends java.lang.Object
implements [ISorter](#)

This class implements a recursiv quick sorter

Constructor Summary

public	QuickSorter()
--------	-------------------------------

Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses
java.lang.String	getSorterName() Returns the name of the sort algorithm
void	sort (int[] a) Sort the given array ascending.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [sorter.ISorter](#)

[getArrayAccessCounter](#), [getSorterName](#), [sort](#)

Constructors

QuickSorter

public **QuickSorter**()

Methods

(continued from last page)

sort

```
public void sort(int[] a)
```

Sort the given array ascending.

Parameters:

a - An array of the items to sort

getSorterName

```
public java.lang.String getSorterName()
```

Returns the name of the sort algorithm

Returns:

A string with the name of the sort alorithm

getArrayAccessCounter

```
public long getArrayAccessCounter()
```

Returns the amount of array accesses

Returns:

Returns a amount of array accesses

sorter

Class QuickSorterIterativ

java.lang.Object

└--sorter.QuickSorterIterativ

All Implemented Interfaces:

[ISorter](#)

public class **QuickSorterIterativ**

extends java.lang.Object

implements [ISorter](#)

This class implements a iterativ quick sorter

Constructor Summary

public	QuickSorterIterativ()
--------	---------------------------------------

Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses
java.lang.String	getSorterName() Returns the name of the sort algorithm
void	sort (int[] a) Sort the given array ascending.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [sorter.ISorter](#)

[getArrayAccessCounter](#), [getSorterName](#), [sort](#)

Constructors

QuickSorterIterativ

public **QuickSorterIterativ**()

Methods

(continued from last page)

sort

```
public void sort(int[] a)
```

Sort the given array ascending.

Parameters:

a - An array of the items to sort

getSorterName

```
public java.lang.String getSorterName()
```

Returns the name of the sort algorithm

Returns:

A string with the name of the sort alorithm

getArrayAccessCounter

```
public long getArrayAccessCounter()
```

Returns the amount of array accesses

Returns:

Returns a amount of array accesses

sorter

Class Sort

```
java.lang.Object
|
+-sorter.Sort
```

```
public class Sort
extends java.lang.Object
```

With this class we call the various sort algorithm and compare it. Writes the result for comparing in a HTML file

Constructor Summary

public	Sort()
--------	------------------------

Method Summary

static void	main (java.lang.String[] args)
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Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

Sort

```
public Sort()
```

Methods

main

```
public static void main(java.lang.String[] args)
```