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()

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) 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 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 FileWriterHtml

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

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

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 exits, it will be deleted

Parameters:

`String` - filename

Returns:

(continued from last page)

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

Constructor Summary

public	HeapSorter()

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) 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 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 InsertionSorter

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

All Implemented Interfaces:
ISorter

---

public class **InsertionSorter**
extends java.lang.Object
implements ISorter

Constructor Summary

public	InsertionSorter()

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) 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 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
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

Constructor Summary

public	MergeSorter()

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) 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 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 QuickSorter

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

All Implemented Interfaces:
ISorter

---

public class **QuickSorter**
extends java.lang.Object
implements ISorter

Constructor Summary

public	QuickSorter()

Method Summary

long	getArrayAccessCounter() Returns the amount of array accesses Implements the abstact method of ISorter
java.lang.String	getSorterName() Returns the name of the sort algoritm Implements the abstact method of ISorter
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. Implements the abstact method of ISorter

Parameters:

a - An array of the items to sort

---

getSorterName

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

Returns the name of the sort algoritm Implements the abstact method of ISorter

Returns:

A string with the name of the sort alorithm

---

getArrayAccessCounter

```
public long getArrayAccessCounter()
```

Returns the amount of array accesses Implements the abstact method of ISorter

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

Constructor Summary

public	QuickSorterIterativ()

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) 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

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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 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 Sort

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

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

Constructor Summary

public	Sort()

Method Summary

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

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)`