

Package [DateTime](#)

Class DayOfYearSet

java.lang.Object
 DateTime.DayOfYearSet

All Implemented Interfaces:

java.lang.Cloneable

```
public class DayOfYearSet
extends java.lang.Object
implements java.lang.Cloneable
```

Class DayOfYearSet is a set implementation of the DayOfYear objects. All items are unique. add and remove for modify the set. union, difference, intersection and complement operates De Morgan's laws.

Nested Class Summary

Nested Classes

Modifier and Class Type	Description
static class DayOfYearSet.DayOfYear	Subclass DayOfYear is representing a day from a regular year(non-leap).

Constructor Summary

Constructors

Constructor	Description
DayOfYearSet()	Constructs an empty set with an initial capacity of twenty.
DayOfYearSet(int size)	Constructs an empty set with the specified size.
DayOfYearSet(java.util.ArrayList<DayOfYearSet.DayOfYear> dList)	Constructs a set containing the elements of the specified ArrayList.

Modifier and Type	Method	Description
void	add (DayOfYearSet . DayOfYear dayOfYear)	Adds the specified item to the end of this set.
protected DayOfYearSet	clone()	Returns a deep copy of this DayOfYearSet instance.
DayOfYearSet	complement()	Returns the set which created by removing elements of this set from the all days of a year.
DayOfYearSet	difference (DayOfYearSet dSet)	Removes elements which is part of the both specified set and this, from this set.
boolean	equals (java.lang.Object obj)	
int	getID()	
static int	getTotalNumberOfObjects()	
DayOfYearSet	intersection (DayOfYearSet dSet)	Returns the set formed by the elements in both sets.
void	remove (int index)	Removes the item at the given index.
int	size()	Returns the number of items in this set.
java.lang.String	toString()	
DayOfYearSet	union (DayOfYearSet dSet)	Returns sum of this and specified set with no duplicate.

Methods inherited from class java.lang.Object

finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

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Constructs an empty set with an initial capacity of twenty.

DayOfYearSet

```
public DayOfYearSet(int size)
```

Constructs an empty set with the specified size.

Parameters:

size - the initial capacity of the set

DayOfYearSet

```
public DayOfYearSet(java.util.ArrayList<DayOfYearSet.DayOfYear> dList)
```

Constructs a set containing the elements of the specified ArrayList.

Parameters:

dList - the ArrayList whose elements are to be placed into this set

Method Detail

getID

```
public int getID()
```

getTotalNumberOfObjects

```
public static int getTotalNumberOfObjects()
```

clone

```
protected DayOfYearSet clone() throws java.lang.CloneNotSupportedException
```

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a clone of this `DayOfYearSet` instance

Throws:

`java.lang.CloneNotSupportedException`

add

```
public void add(DayOfYearSet.DayOfYear dayOfYear)
```

Adds the specified item to the end of this set. Expands capacity if set is full.

Parameters:

`dayOfYear` - item to be inserted

remove

```
public void remove(int index)
```

Removes the item at the given index. Shift all items one left starting from the specified index.

Parameters:

`index` - the index of the item to be removed

size

```
public int size()
```

Returns the number of items in this set.

Returns:

the number of items in this set

union

```
public DayOfYearSet union(DayOfYearSet dSet)
```

Returns sum of this and specified set with no duplicate.

Parameters:

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difference

```
public DayOfYearSet difference(DayOfYearSet dSet)
```

Removes elements which is part of the both specified set and this, from this set. And returns the result.

Parameters:

dSet - the set, which the common elements are to be removed from this

Returns:

difference set which this - dSet

intersection

```
public DayOfYearSet intersection(DayOfYearSet dSet)
```

Returns the set formed by the elements in both sets.

Returns:

intersection set of this and dSet

complement

```
public DayOfYearSet complement()
```

Returns the set which created by removing elements of this set from the all days of a year.

toString

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

Overrides:

toString in class java.lang.Object

equals

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