

# Class DayofYearSet

java.lang.Object  
DayofYearSet

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

Every DayofYearSet object contains DayofYear objects which have day and month fields. DayofYearSet class includes set operations, constructors and overridden toString and equals methods

## Nested Class Summary

### Nested Classes

Modifier and Type	Class	Description
static class	<a href="#">DayofYearSet.DayofYear</a>	DayofYear class is a inner class of DayofYearSet.

## Field Summary

### Fields

Modifier and Type	Field	Description
static int	<a href="#">totalDOY</a>	totalDOY is the number of total DayofYear objects

## Constructor Summary

### Constructors

Constructor	Description
<a href="#">DayofYearSet()</a>	Constructor with no parameters
<a href="#">DayofYearSet(int s)</a>	Constructor with one integer parameter
<a href="#">DayofYearSet</a> ( <a href="#">java.util.ArrayList</a> < <a href="#">DayofYearSet.DayofYear</a> > arrList)	Constructor with one ArrayList parameter

[PACKAGE](#) [CLASS](#) [TREE](#) [DEPRECATED](#) [INDEX](#) [HELP](#)
[ALL CLASSES](#)SEARCH: 
[SUMMARY](#): [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL](#): [FIELD](#) | [CONSTR](#) | [METHOD](#)
[All Methods](#) [Static Methods](#) [Instance Methods](#) [Concrete Methods](#)

Modifier and Type	Method	Description
void	<b>add</b> ( <a href="#">DayofYearSet</a> . <a href="#">DayofYear</a> obj)	add method is used to add new element to the set creating new array with new size
<a href="#">DayofYearSet</a>	<b>complement()</b>	complement method returning complement of the set
<a href="#">DayofYearSet</a>	<b>difference</b> ( <a href="#">DayofYearSet</a> obj)	difference method returning difference of the sets
boolean	<b>equals</b> ( <a href="#">DayofYearSet</a> obj)	equals is an overridden method to compare two sets
<a href="#">DayofYearSet</a>	<b>intersection</b> ( <a href="#">DayofYearSet</a> obj)	intersection method returning intersection of the sets
void	<b>printSet()</b>	printSet is used to print the set details
void	<b>remove</b> ( <a href="#">DayofYearSet</a> . <a href="#">DayofYear</a> obj)	remove method is used to remove new element from the set creating new array with new size
int	<b>size()</b>	Getter for size field
java.lang.String	<b>toString()</b>	toString is an overridden method to display all the dates in the set returning a string
static int	<b>totalDayofYear()</b>	totalDayofYear is a static method to return the total number of the DayofYear objects
<a href="#">DayofYearSet</a>	<b>union</b> ( <a href="#">DayofYearSet</a> obj)	union method returning union set
void	<b>writeFile()</b>	writeFile method is used to write the set to a text file

### Methods inherited from class [java.lang.Object](#)

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

### Field Detail

--

**Constructor Detail**

**DayofYearSet**

```
public DayofYearSet()
```

Constructor with no parameters

**DayofYearSet**

```
public DayofYearSet(int s)
```

Constructor with one integer parameter

**DayofYearSet**

```
public DayofYearSet(java.util.ArrayList<DayofYearSet.DayofYear> arrList)
```

Constructor with one ArrayList parameter

**Method Detail**

**size**

```
public int size()
```

Getter for size field

**Returns:**

value of size as int

[PACKAGE](#) [CLASS](#) [TREE](#) [DEPRECATED](#) [INDEX](#) [HELP](#)[ALL CLASSES](#)SEARCH: [SUMMARY: NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)

### remove

```
public void remove(DayofYearSet.DayofYear obj)
```

remove method is used to remove new element from the set creating new array with new size

### union

```
public DayofYearSet union(DayofYearSet obj)
```

union method returning union set

**Parameters:**

obj - another set to create an union set

**Returns:**

an union set as [DayofYearSet](#)

### intersection

```
public DayofYearSet intersection(DayofYearSet obj)
```

intersection method returning intersection of the sets

**Parameters:**

obj - another set to create an intersection of sets

**Returns:**

intersection of sets as [DayofYearSet](#)

### difference

```
public DayofYearSet difference(DayofYearSet obj)
```

difference method returning difference of the sets

**Parameters:**

obj - another set to create a difference set

**Returns:**

[PACKAGE](#) [CLASS](#) [TREE](#) [DEPRECATED](#) [INDEX](#) [HELP](#)[ALL CLASSES](#)SEARCH: [SUMMARY: NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)**complement**

```
public DayofYearSet complement()
```

complement method returning complement of the set

**Returns:**

a complement set as DayofYearSet

**toString**

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

toString is an overridden method to display all the dates in the set returning a string

**Overrides:**

toString in class java.lang.Object

**Returns:**

a string of all dates in the set

**equals**

```
public boolean equals(DayofYearSet obj)
```

equals is an overridden method to compare two sets

**Parameters:**

obj - another set to compare

**Returns:**

true if sets are the same

**printSet**

```
public void printSet()
```

printSet is used to print the set details

**totalDayofYear**

[PACKAGE](#) [CLASS](#) [TREE](#) [DEPRECATED](#) [INDEX](#) [HELP](#)

[ALL CLASSES](#)

SEARCH:

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)    [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)

value of totalDOY as int

writeFile

```
public void writeFile()
```

writeFile method is used to write the set to a text file

[PACKAGE](#) [CLASS](#) [TREE](#) [DEPRECATED](#) [INDEX](#) [HELP](#)

[ALL CLASSES](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)    [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)