Package pck

Class DayOfYearSet

java.lang.Object
    pck.DayOfYearSet

```
public class DayOfYearSet
extends Object
```

DayOfYearSet class contains set of DayOfYear objects for every element of the set that corresponds to the single day of a year

Nested Class Summary

Nested Classes

Modifier and Type	Class	Description
static class	DayOfYearSet.DayOfYear	DayOfYear class contains information for a day of a year.

Constructor Summary

Constructors

Constructor	Description
DayOfYearSet()	No Argument Constructor Does Nothing
DayOfYearSet(int monthValue, int dayValue)	Two integer parameter constructor adds an elemnent to the set
DayOfYearSet(ArrayList<DayOfYearSet.DayOfYear> dates)	ArrayList of DayOfYeat Objects parameter constructor adds an list of DayOfYear objects to the set
DayOfYearSet(DayOfYearSet.DayOfYear date)	DatOfYear parameter constructor adds an elemnent to the set

Method Summary

All Methods   Static Methods   Instance Methods   Concrete Methods

Modifier and Type	Method	Description
void	add(int monthValue, int dayValue)	Adds an element to the set if it's not already added.
void	add(DayOfYearSet.DayOfYear date)	Adds an element to the set if it's not already added.

DayOfYearSet	clone(DayOfYearSet right)	
DayOfYearSet	complement()	Creates a compelement set of the current set
DayOfYearSet	difference(DayOfYearSet set1)	Creates a difference set of the current set
boolean	equals(Object set1)	Overriden equals function compares Sets correctly
static int	getTotal()	Function returns a static integer value equals to all alive objects in all classes
DayOfYearSet	intersection(DayOfYearSet set1)	Creates an intersection set of the current set
void	remove()	Removes the last element from the set
void	remove(int monthValue, int dayValue)	Removes an element from the set
void	remove (DayOfYearSet.DayOfYear date)	Removes an element from the set
int	size()	Getter functino for size field
boolean	testDate(int monthValue, int dayValue)	Test the given date's validity
String	toString()	Overriden toString function prints Set details correctly
static void	totalminus()	Static function decreases static variable for counting alive objects in all classes
static void	totalplus()	Static function increases static variable for counting alive objects in all classes
DayOfYearSet	union(DayOfYearSet set1)	Creates a union set of the current set

Methods inherited from class java.lang.Object

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

Constructor Details

DayOfYearSet

public DayOfYearSet()

No Argument Constructor Does Nothing

DayOfYearSet

```
public DayOfYearSet(int monthValue,
                    int dayValue)
```

Two integer parameter constructor adds an elemnent to the set

Parameters:

monthValue - month value of the date

dayValue - day value of the date

DayOfYearSet

```
public DayOfYearSet(DayOfYearSet.DayOfYear date)
```

DatOfYear parameter constructor adds an elemnent to the set

Parameters:

date - contains date information

DayOfYearSet

```
public DayOfYearSet(ArrayList <DayOfYearSet.DayOfYear> dates)
```

ArrayList of DayOfYeat Objects parameter constructor adds an list of DayOfYear objects to the set

Parameters:

dates - list of DayOfYear Objects that will be added to the set

Method Details

getTotal

```
public static int getTotal()
```

Function returns a static integer value equals to all alive objects in all classes

Returns:

returns total

size

```
public int size()
```

Getter functino for size field

Returns:

returns the size of the set

---

add

public void add(DayOfYearSet.DayOfYear date)

Adds an element to the set if it's not already added.

Parameters:
date - contains date information of the item that will be added to the set

---

add

```
public void add(int monthValue,
                int dayValue)
```

Adds an element to the set if it's not already added.

Parameters:
monthValue - month value of the date

dayValue - day value of the date

---

remove

public void remove()

Removes the last element from the set

---

remove

public void remove(DayOfYearSet.DayOfYear date)

Removes an element from the set

Parameters:
date - contains date information

---

remove

```
public void remove(int monthValue,
                   int dayValue)
```

Removes an element from the set

Parameters:
monthValue - month value of the date

dayValue - day value of the date

testDate

```
public boolean testDate(int monthValue,
                        int dayValue)
```

Test the given date's validity

Parameters:

`monthValue` - month value of the date

`dayValue` - day value of the date

Returns:

returns true if date is not valid

totalplus

```
public static void totalplus()
```

Static function increases static variable for counting alive objects in all classes

totalminus

```
public static void totalminus()
```

Static function decreases static variable for counting alive objects in all classes

equals

```
public boolean equals(Object  set1)
```

Overriden equals function compares Sets correctly

Overrides:

`equals` in class `Object`

toString

```
public String  toString()
```

Overriden toString function prints Set details correctly

Overrides:

`toString` in class `Object`

union

```
public DayOfYearSet union(DayOfYearSet set1)
```

Creates a union set of the current set

Parameters:

`set1` - The set that will be added to union set

Returns:

returns reference to union set

intersection

`public DayOfYearSet intersection(DayOfYearSet set1)`

Creates an intersection set of the current set

Parameters:

`set1` - Set that the comparison will be done according to current set

Returns:

returns reference to intersection set

difference

`public DayOfYearSet difference(DayOfYearSet set1)`

Creates a difference set of the current set

Parameters:

`set1` - Set that the comparison will be done according to current set

Returns:

returns reference to difference set

complement

`public DayOfYearSet complement()`

Creates a compelement set of the current set

Returns:

refference to compelement set

clone

`public DayOfYearSet clone(DayOfYearSet right)`

Parameters:

`right` - is a DayOfYearSet object that will be copied

Returns:

reference to this object