



Package [main](#)

Class Range

`java.lang.Object`
`main.Range`

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

The Range class models a Range on the map defined by a upper-left and a bottom-right Coordinates

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Constructor Summary

Constructors

Constructor	Description
Range ()	Empty constructor of the Range class, which initializes the upper-left and bottom-right Coordinates of the Range to default values
Range (Coordinate upperL, Coordinate bottomR)	Copy constructor of the Range class, which initializes the upper-left and bottom-right Coordinates of the Range to given values

Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type	Method	Description
boolean	contains (Coordinate coord)	contains() checks if a given Coordinate is contained within this Range
boolean	equals (<code>java.lang.Object</code> obj)	
Coordinate	getBottomR ()	Getter for the bottom-right Coordinate of the Range
Coordinate	getUpperL ()	Getter for the upper-left Coordinate of the Range
int	hashCode ()	



void	setUpperL (Coordinate upperL)	Setter for the upper-left Coordinate of the Range
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Methods inherited from class java.lang.Object

getClass, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Range

```
public Range()
```

Empty constructor of the Range class, which initializes the upper-left and bottom-right Coordinates of the Range to default values

Range

```
public Range(Coordinate upperL,  
            Coordinate bottomR)
```

Copy constructor of the Range class, which initializes the upper-left and bottom-right Coordinates of the Range to given values

Parameters:

upperL - the upper-left Coordinate of the Range

bottomR - the bottom-right Coordinate of the Range

Method Detail

getUpperL

```
public Coordinate getUpperL()
```

Getter for the upper-left Coordinate of the Range

Returns:

the upper-left Coordinate of the Range



Setter for the upper-left Coordinate of the Range

Parameters:

upperL - the new upper-left Coordinate of the Range

getBottomR

```
public Coordinate getBottomR()
```

Getter for the bottom-right Coordinate of the Range

Returns:

the bottom-right Coordinate of the Range

setBottomR

```
public void setBottomR(Coordinate bottomR)
```

Setter for the bottom-right Coordinate of the Range

Parameters:

bottomR - the new bottom-right Coordinate of the Range

contains

```
public boolean contains(Coordinate coord)
```

contains() checks if a given Coordinate is contained within this Range

Parameters:

coord - the Coordinate we want to examine

Returns:

true if the given Coordinate is contained within this Range, and false otherwise

intersects

```
public boolean intersects(Range otherRange)
```

intersects() checks if a given Range intersects with this Range

**hashCode**

```
public int hashCode()
```

Overrides:

hashCode in class `java.lang.Object`

equals

```
public boolean equals(java.lang.Object obj)
```

Overrides:

equals in class `java.lang.Object`