

JAVA.UTIL.ENUMSET.COMPLEMENTOF METHOD

http://www.tutorialspoint.com/java/util/enumset_complementof.htm

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Description

The **java.util.EnumSet.complementOf***EnumSet < E > s* method creates an enum set with the same element type as the specified enum set. It contains all the elements of this type that are not contained in the specified set.

Declaration

Following is the declaration for **java.util.EnumSet.complementOf** method

```
public static <E extends Enum<E>> EnumSet<E> complementOf(EnumSet<E> s)
```

Parameters

- **s** -- the enum set from whose complement to initialize this enum set.

Return Value

This method does not return any value.

Exception

- **NullPointerException** -- if s is null

Example

The following example shows the usage of java.util.EnumSet.complementOf method.

```
package com.tutorialspoint;

import java.util.*;

public class EnumSetDemo {

    // create an enum
    public enum Numbers {

        ONE, TWO, THREE, FOUR, FIVE
    };

    public static void main(String[] args) {

        // create an EnumSet that has only Numbers.FOUR as element
        EnumSet<Numbers> set1 = EnumSet.of(Numbers.FOUR);

        // print the set
        System.out.println("Set1:" + set1);

        // create a set2 which has all elements that set1 doesn't have
        EnumSet<Numbers> set2 = EnumSet.complementOf(set1);

        // print the updated set
        System.out.println("Set2:" + set2);

    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Set1:[FOUR]
```

Set2:[ONE, TWO, THREE, FIVE]

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