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## A

- [add\(T\)](#) - Method in interface [JavaContainer](#)  
adds an element to the container
- [add\(T\)](#) - Method in class [JavaSet](#)  
adds an element to the set
- [add\(T\)](#) - Method in class [JavaVector](#)  
adds @param item to the vector
- [addCap\(\)](#) - Method in class [JavaSet](#)  
increases capacity by multiplying it with 2 copies the old array to the new one
- [addCap\(\)](#) - Method in class [JavaVector](#)  
increases capacity by multiplying it with 2 copies the old array to the new one
- [array](#) - Variable in class [Iterator](#)  
array: set or vector's array
- [array](#) - Variable in class [JavaSet](#)  
array: set's array
- [array](#) - Variable in class [JavaVector](#)  
array of JavaVector

## B

- [begin\(\)](#) - Method in class [Iterator](#)  
begin: sets the iterator to the first element

## C

- [capacity](#) - Variable in class [JavaSet](#)  
capacity: capacity of the set
- [capacity](#) - Variable in class [JavaVector](#)  
capacity of JavaVector
- [current\(\)](#) - Method in class [Iterator](#)  
current: returns the current element
- [currentIndex](#) - Variable in class [Iterator](#)  
currentIndex: index of the current element

## E

- [end\(\)](#) - Method in class [Iterator](#)  
end: sets the iterator to the last element
- [equals\(JavaSet<T>\)](#) - Method in class [JavaSet](#)  
overloaded equals method checks if two sets are equal
- [equals\(JavaVector<T>\)](#) - Method in class [JavaVector](#)  
overloaded equals method checks if two vectors are equal

## G

- [getIterator\(\)](#) - Method in interface [JavaContainer](#)  
returns an iterator for the container
- [getIterator\(\)](#) - Method in class [JavaSet](#)
- [getIterator\(\)](#) - Method in class [JavaVector](#)

## H

[hasNext\(\)](#) - Method in class [Iterator](#)  
function to check if there is a next element

## I

[isIn\(T\)](#) - Method in class [JavaSet](#)  
checks if the element is in the set

[isIn\(T\)](#) - Method in class [JavaVector](#)  
checks if the element is in the vector

[Iterator<T>](#) - Class in [Unnamed Package](#)

Iterator class to iterate over the set or vector I also added 3 more functions to make it easier to use

[Iterator\(Object\[\], int\)](#) - Constructor for class [Iterator](#)  
constructor

## J

[JavaContainer<T>](#) - Interface in [Unnamed Package](#)

JavaContainer: an interface for a container that holds elements of type T

[JavaSet<T>](#) - Class in [Unnamed Package](#)  
JavaSet

[JavaSet\(int\)](#) - Constructor for class [JavaSet](#)  
constructor creates an empty set sized 0

[JavaVector<T>](#) - Class in [Unnamed Package](#)  
JavaVector Class implements JavaContainer interface

[JavaVector\(int\)](#) - Constructor for class [JavaVector](#)  
constructor creates an empty vector sized 0

## M

[main\(String\[\]\)](#) - Static method in class [Main](#)  
Main method for testing JavaSet and JavaVector classes.

[Main](#) - Class in [Unnamed Package](#)  
Main class for testing JavaSet and JavaVector classes.

[Main\(\)](#) - Constructor for class [Main](#)  
Constructor for Main class.

## N

[next\(\)](#) - Method in class [Iterator](#)  
function to get the next element

## P

[printToFile\(String\)](#) - Method in class [JavaSet](#)  
prints the set to a file

## R

[remove\(T\)](#) - Method in interface [JavaContainer](#)  
removes an element from the container

[remove\(T\)](#) - Method in class [JavaSet](#)  
removes an element from the set

[remove\(T\)](#) - Method in class [JavaVector](#)  
removes @param item from the vector

## S

[size](#) - Variable in class [Iterator](#)  
size: size of the set or vector

[size](#) - Variable in class [JavaSet](#)  
size: size of the set

[size](#) - Variable in class [JavaVector](#)  
size of JavaVector

[size\(\)](#) - Method in interface [JavaContainer](#)  
returns the number of elements in the container

[size\(\)](#) - Method in class [JavaSet](#)

[size\(\)](#) - Method in class [JavaVector](#)

[sort\(\)](#) - Method in class [JavaSet](#)  
a bubble sort algorithm to sort the array

## T

[toString\(\)](#) - Method in class [Iterator](#)  
toString method

[toString\(\)](#) - Method in class [JavaSet](#)

[toString\(\)](#) - Method in class [JavaVector](#)

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