

2XB3 Assignment 1 – Implementing Abstract Data Types

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public class **Set**

	Set ()	<i>create an empty set</i>
	Set (String[] arr)	<i>create a set from an array of strings</i>
	Set (ArrayList<String> arr)	<i>create a set from an ArrayList of Strings</i>
Set	Add (String s)	<i>add an item to the set and return a new set</i>
Set	Remove (String s)	<i>removes an item from the set and returns a new set</i>
boolean	Member (String s)	<i>is the item an element of the set?</i>
Set	Union (Set S)	<i>return the union of this set with set S as a set</i>
Set	Intersection (Set S)	<i>return the intersection of this set with set S as a set</i>
Set	Difference (Set S)	<i>return the difference of this set with set S as a set</i>
Set	Product (Set S)	<i>return the Cartesian product (cross product) of this set by set S</i>
boolean	isEqual (Set S)	<i>is this set and set S identical (has same elements)?</i>
int	getCount()	<i>returns the size of the set (number of members)</i>
String	toString()	<i>makes a string of the elements in the set and returns it</i>

API for Sets