Nicholas			
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		UML Class Diagram	
Set			
- <u>Set()</u>			
makeEmpty()			
isEmpty()			
add(int)			
remove(int)			
elementOf(in	t)		
	size()		
union(Set)			
intersection(S			
	setDifference(Set)		
	toString()		
valueAt(int)			
		Data Table - Set Class	
Variable	Туре	Purpose	
array	int[]	A public array that is manipulated in the code	
		Data Table - Set	
Variable	Туре	Purpose	
array	int[]	Generates a new array	
		Data Table - makeEmpty	
Variable	Туре	Purpose	
index	int	Used as an index for loops	
illuex	IIII	osed as all lildex for loops	
		Data Table - isEmpty	
Variable	Туре	Purpose	
			
		Data Table - add	
Variable	Туре	Purpose	
newArray	int[]	A second array that the modifications will be saved to	
index	int	Used as an index for loops	
		Data Table - remove	
Variable	Туре	Purpose	
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newArray	int []	A secondary array that the modifications will be saved to	
index	int	Used as an index for loops	
counter	int	Used as a secondary index	
		Data Table - elementOf	

Data Table - elementOf		
Variable	Type	Purpose
index	int	Used as an index for loops
result	boolean	Used as the return value; true if a number needs to be removed

Data Table - size		
Variable	Туре	Purpose

Data Table - union		
Variable	Туре	Purpose
newSet	Set	Used as a new Set object for changes made
index	int	Used as an index for loops

Data Table - intersection		
Variable	Туре	Purpose
newSet	Set	Used as a new Set object for changes
index	int	Used as an index for loops

Data Table - setDifference	
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Legend
+ Public
- Private
Package
Protected

Variable	Туре	Purpose
unionSet	Set	Creates a set object that will be used for the union function
intersectionSet	Set	A Set object that Is used for the intersection function
differenceSet	Set	A Set object that Is used for the setDifference function

Data Table - toString		
Variable	Туре	Purpose
result	String	The value that will be returned
index	int	Used as an index for loops

		Data Table - valueAt
Variable	Туре	Purpose