Table 1: Instantiation of a **BasicCollection** 

Operation	Purpose	Object State	Expected Result
Collection c = new Basic-	To create a basic collection	size = 0	A new Collection object
Collection()	with the default construc-	empty = true	with default values for the
	tor.		attributes.
c.size()	To verify instantiated size.		0
c.isEmpty()	To verify instantiated ob-		true
	ject is empty.		

Table 2: Adding objects to an instantiated collection.

Operation	Purpose	Object State	Expected Result
BasicCollection;String;	To create a basic string col-	size = 0	A new Collection object
c = new BasicCollec-	lection with the default con-	empty = true	with default values for the
tion;String;()	structor.		attributes.
c.add(new String("A"))	Add a string to the collec-	size = 1	The collection contains the
	tion.	empty = false	string we've added.
!c.isEmpty()	To verify instantiated ob-		true
	ject isn't empty.		
c.contains("A")	Check that our collection		true
	contains the string added.		
c.contains("Missing")	To verify that other objects		false
	don't falsely report to be in		
	our collection.		

Table 3: Ability to remove unique elements from the collection.

Operation	Purpose	Object State	Expected Result
BasicCollection;String;	To create a basic string col-	size = 0	A new Collection object
c = new BasicCollec-	lection with the default con-	empty = true	with default values for the
tion;String;()	structor.		attributes.
c.add(new String("A"))	Add a string to the collec-	size = 1	The collection contains the
	tion.	empty = false	string we've added.
c.add(new String("B"))	Add another string to the	size = 2	The collection contains the
	collection.	empty = false	string we've added.
!c.isEmpty()	To verify instantiated ob-		true
	ject isn't empty.		
c.size()	Check that our contains two		2
	elements.		
c.remove("B")	To remove an individual	size = 1	
	item from the collection.		
c.size()	To check the updated size of		1
	our collection.		
c.contains("B")	To ensure our item was re-		false
	moved.		

Table 4: Ability to add multiple items to a **BasicCollection**.

Operation	Purpose	Object State	Expected Result
BasicCollection;String;	To create a basic string col-	size = 0	A new Collection object
c = new BasicCollec-	lection with the default con-	empty = true	with default values for the
tion;String;()	structor.		attributes.
c.add(new String("A"))	Add a string to the collec-	size = 1	The collection contains the
	tion.	empty = false	string we've added.
!c.isEmpty()	To verify instantiated ob-		true
	ject isn't empty.		
c.contains("A")	Check that our collection		true
	contains the string added.		
c.contains("Missing")	To verify that other objects		false
	don't falsely report to be in		
	our collection.		

Table 5: Ability to remove all items to a  ${\bf Basic Collection}.$ 

Operation	Purpose	Object State	Expected Result
BasicCollection;String;	To create a basic string col-	size = 0	A new Collection object
c = new BasicCollec-	lection with the default con-	empty = true	with default values for the
tion;String¿()	structor.		attributes.
c.add(new String("A"))	Add a string to the collec-	size = 1	The collection contains the
	tion.	empty = false	string we've added.
!c.isEmpty()	To verify instantiated ob-		true
	ject isn't empty.		
c.contains("A")	Check that our collection		true
	contains the string added.		
c.contains("Missing")	To verify that other objects		false
	don't falsely report to be in		
	our collection.		