Name	Period	

- This question involves the implementation of a class, called DixieCup, which models a dixie cup. A
  DixieCup object can be created with or without a parameter. A DixieCup object created with a
  parameter can hold the number of items specified by the parameter. A DixieCup object created
  without a parameter cannot hold any items.
  - addItem, adds an item to a cup that is not full
  - getIsFull, returns whether or not the cup is full
  - getNumItems, returns the number of items in the cup
  - swapItems, swaps the items at the specified locations

- toString, returns a summary of the cup

Statements and Expressions	Value	Comment
•	Returned (blank if no value)	Comment
<pre>DixieCup cup1 = new DixieCup();</pre>		Creates a cup that cannot hold any items
<pre>DixieCup cup2 = new DixieCup(5);</pre>		Creates a cup that can hold up to 5 items
<pre>cup1.addItem("marble");</pre>		Nothing is added to cup1
<pre>cup2.addItem("marble");</pre>		A marble is added to cup2 and the contents are defined as follows, {marble, null, null, null, null}
<pre>cup2.getNumItems();</pre>	1	There is 1 item in cup2
<pre>cup1.getIsFull();</pre>	true	Returns true because cup1 cannot hold any items
<pre>cup2.getIsFull();</pre>	false	Returns false because cup2 can hold more items
<pre>cup2.addItem("marshmallow");</pre>		A marshmallow is added to cup2 and the contents are defined as follows, {marble, marshmallow, null, null, null}
<pre>cup1.getNumItems();</pre>	0	There are not any items in cup1
<pre>cup2.getNumItems();</pre>	2	There 2 items in cup2
<pre>cup1.swapItems(0, 1);</pre>		Nothing is swapped in cup1
<pre>cup2.swapItems(1, 2);</pre>		Swaps the items at locations 1 and 2. The contents in cup2 are defined as follows, {marble, null, marshmallow, null, null}
<pre>System.out.println(cup2.toString())</pre>	marble null marshmallow null null the cup is not full	Returns a summary of the cup

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methods. Your implementation must meet all specifications and conform to the example.
/12