Name	Period
Consider a class that can be used to model a DixieCup, or rather the a DixieCup is created the number of items it can hold is defined dep	
The number of items, if specified, is used to initialize the instance verthe items in the DixieCup as String data types. If a DixieCup can howhen the cup is created, otherwise isFull is true. Consider the follows:	ld items, the instance variable isFull is false
DixieCup cup1 = new DixieCup(5);//Creates a cup that can hold five DixieCup cup2 = new DixieCup(); //Creates a cup that cannot hold a	
(a) Write the DixieCup class that meets the above requirements be	elow.
A <i>DixieCup</i> is full if there are no more null values in the <i>itemsArray</i> . to false, otherwise <i>isFull</i> should be set to true. Because we also have you will also need to check for this too.	
(b) Write the setIsFull method below	

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The <i>addItem</i> method accepts a parameter which represents the item to be added to the <i>itemsArray</i> . The item you add must go in the first <i>null</i> value of your <i>itemsArray</i> . You will need a loop to check for this. Once you have added your item, you should call <i>setIsFull</i> . <i>setIsFull</i> will set <i>isFull</i> to <i>true</i> if there are not anymore <i>null</i> places.	
(c) Write the addItem method	
In addition to adding items, the user should have the ability to swap the location of two items in a cup. The	
swap method should have the following signature,	
<pre>public void swap(int i1, int i2)</pre>	
The parameters, i1 and i2, represent the indices of the items you want to swap.	
(d) Write the swap method	