Name	Period
Consider a class that can be used to model a DixieCup, or rather th a DixieCup is created the number of items it can hold is defined de	
The number of items, if specified, is used to initialize the instance of the items in the DixieCup as String data types. If a DixieCup can howhen the cup is created, otherwise isFull is true. Consider the follows:	old 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 b	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 ha you will also need to check for this too.	
(b) Write the setIsFull method below	

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The addItem method should first check to see if the DixieCup can hold anything – that is, is isFull true or false. If isFull is false, you can add an item to your array. The item you add must go in the first null value of your itemsArray. You will need a loop to check for this. Once you have added your item, you should call setIsFull. setIsFull will set isFull to true if there are not anymore null 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,	
public void swap(int i1, int i2)	
The two parameters represent the indices of the items you want to swap.	
(d) Write the swap method	