Write: code that solves an array problem

Write a method that takes an array of ints and returns a new array of ints that contains only a single instance of each of the numbers in the input array.

Let’s assume, to start, that you have the following helper method:

```java
public int countUnique( int[] a )
```
Which will return the number of unique elements in a.

Hint: write a helper method that will check whether an array contains a given element.

FIRST: make the plan, i.e. your “pseudo-code” or algorithm steps

```java
public class ArrayPlay
    public static int[] removeDuplicates( int[] arr )
    {
        // make a new array a ONLY with the amount of unique elements

        // For each element in arr
        1 - check if it is contained in my new array a
        2 - if it’s not -> add it
        3 - if it is -> continue with the loop without changing a
    }
```
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public static int countUnique( int[] a )
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Which will return the number of unique elements in a.
- Hint: write a helper method that will check whether an array contains a given element.

```java
class ArrayPlay
{
    public static int[] removeDuplicates( int[] arr )
    {
        // make a new array ONLY with the amount of unique elements
        int[] myArray = new int[countUnique(arr)];
        int retInd = 0;
        for ( int i = 0; i < arr.length; i++ )
        {
            if (!contains( myArray, arr[i] ) )
            {
                myArray[retInd] = arr[i];
                retInd ++;
            }
        }
        return myArray;
    }
}
```

// TO-DO: CAN YOU WRITE A METHOD USING ArrayList instead of int[] myArray?

This is the helper method I need to write

- `contains` is the method I need to write.
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- Let’s assume, to start, that you have the following helper method:
  public static int countUnique( int[] a )
Which will return the number of unique elements in a.
- Hint: write a helper method that will check whether an array contains a given element.

```java
public class ArrayPlay {
    public static ArrayList removeDuplicates( int[] arr ){
        int[] myArray = new int[countUnique(arr)];
        ArrayList myList = new ArrayList();
        int retInd = 0;
        for ( int i = 0; i < arr.length; i++ ){
            if ( !contains( myArray, arr[i] ) ) {
                if ( !myList.contains( arr[i] ) ) {
                    myArray[retInd] = arr[i];
                    myList.add(arr[i]);
                    retInd++;
                }
            }
        }
        return myArray myList;
    }
}
```

We can use the method "contains" from ArrayList class instead of the helper method

//Similar solution USING ArrayList instead of int[] for myArray