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public class ArrayOps {
    public static void main(String[] args) {
        //findMissingInt(new int[] {3, 0, 1});
        //System.out.print(secondMaxValue(new int[] {-202, 48, 13, 7, 8}));
        //System.out.print(isSorted(new int[] {1, 1, 500}));
        //System.out.print(containsTheSameElements(new int[] {2,3}, new int[] {2,3,5}));
    }
}

```

```

public static int findMissingInt (int [] array) {
    for(int i =0 ; i<=array.length ; i++){
        boolean isInArray = false;
        for(int j = 0 ; j<array.length ;j++){
            if(array[j] == i){
                isInArray = true;
                break;
            }
        }
        if(!isInArray){
            return i;
        }
    }
    return -1;
}

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public static int secondMaxValue(int [] array) {
    int max = Math.max(array[0], array[1]);
    int secondMax = Math.min(array[0], array[1]);
    if(array.length == 2){
        return secondMax;
    }
    for(int i = 2 ;i<array.length; i++){
        if(array[i] >= max){
            secondMax = max;
            max = array[i];
        }
    }
}

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    }
    if(array[i] < max && array[i] > secondMax){
        secondMax = array[i];
    }

}

return secondMax;
}

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public static boolean containsTheSameElements(int [] array1,int [] array2) {
    for (int i = 0 ; i< array1.length;i++){
        boolean isContainedInArray2 = false;
        for (int j = 0 ; j<array2.length; j++){
            if(array2[j] == array1[i]){
                isContainedInArray2 = true;
            }
        }
        if(!isContainedInArray2){
            return false;
        }
    }
    for (int i = 0 ; i< array2.length;i++){
        boolean isContainedInArray1 = false;
        for (int j = 0 ; j<array1.length; j++){
            if(array1[j] == array2[i]){
                isContainedInArray1 = true;
            }
        }
        if(!isContainedInArray1){
            return false;
        }
    }
    return true;
}

```

```

public static boolean isSorted(int [] array) {
    int numberBefore = array[0];
    boolean increasing = false;
    boolean decreasing = false;
    for (int i = 1; i < array.length ; i++){
        if(!increasing && !decreasing){
            if(numberBefore > array[i]){
                decreasing = true;
            }
            if(numberBefore < array[i]){
                increasing = true;
            }
        }
        else{
            if(increasing && (numberBefore > array[i])){
                return false;
            }
            if(decreasing && (numberBefore < array[i])){
                return false;
            }
        }
    }
    return true;
}
}

```



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        if(string.charAt(i) == vowels[j] || string.charAt(i) == (char) (vowels[j]-32)){
            isVowel = true;
        }
    }
    //checks if the char is upper case
    if(string.charAt(i) <=90 && string.charAt(i) >= 65){
        if(isVowel == false){
            newString += (char) (string.charAt(i)+32);
        }
        else{
            newString += string.charAt(i);
        }
    }
    //checks if the char is lower case
    else if(string.charAt(i) <=122 && string.charAt(i) >= 97){
        if(isVowel== true){
            newString += (char) (string.charAt(i)-32);
        }
        else{
            newString += string.charAt(i);
        }
    }
    else {
        newString += string.charAt(i);
    }
}
return newString;
}

```

```

public static String camelCase (String string) {
    // Write your code here:
    String newString = "";
    boolean didSeeFirstLetter = false;
    boolean nextCharCapital = false;

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for (int i = 0 ; i<string.length(); i++){
    if(string.charAt(i) == 32){
        if(didSeeFirstLetter){
            nextCharCapital = true;
        }
    }
    else{
        if(!didSeeFirstLetter){
            didSeeFirstLetter = true;
        }
        if(nextCharCapital == true){
            if(string.charAt(i) <=122 && string.charAt(i) >= 97){
                newString += (char) (string.charAt(i)-32);
            }
            else{
                newString += string.charAt(i);
            }
        }
        else{
            if(string.charAt(i) <=90 && string.charAt(i) >= 65){
                newString += (char) (string.charAt(i)+32);
            }
            else{
                newString += string.charAt(i);
            }
        }
        nextCharCapital= false;
    }
}
return newString;
}

```

```

public static int[] allIndexOf (String string, char chr) {
    // Write your code here:

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int numberOfTimesChar= 0;
for(int i = 0; i<string.length(); i++){
    if(string.charAt(i) == chr){
        numberOfTimesChar++;
    }
}
int[] indexesOfChar = new int[numberOfTimesChar];
int indexOfArray = 0;
for(int i = 0; i<string.length(); i++){
    if(string.charAt(i) == chr){
        indexesOfChar[indexOfArray] = i;
        indexOfArray++;
    }
}
return indexesOfChar;
}
}
```