ArrayOps

```
public class ArrayOps {
    public static void main(String[] args) {
    }

public static int findMissingInt(int [] array) {
    int[] arr1 = new int[array.length + 1];
    int a = 0;

    for(int i = 0; i < array.length; i++){
        arr1[array[i]] = array[i];
    }

    for(int j = 1; j < arr1.length; j++){
        if (arr1[j] == 0) a = j;
    }

    return a;
}</pre>
```

```
public static int secondMaxValue(int [] array) {
  int max = array[0];
  int maxIndex = 0;
  int secondMax = array[0];
  for (int i = 0; i < array.length; i++){
     if (array[i] > max) {
        max = array[i];
        maxIndex = i;
     }
     if (i == array.length-1) {
        array[maxIndex] = 0;
        for (int j = 0; j < array.length; j++){
          if (array[j] > secondMax) {
             secondMax = array[j];
          }
        }
     }
  return secondMax;
}
```

```
public static boolean containsTheSameElements(int [] array1,int [] array2) {
     int greaterArr = Math.max(array1.length, array2.length);
     int lowerArr = Math.min(array1.length, array2.length);
     int num = 0;
     for (int i = 0; i < greaterArr; i++){</pre>
       for (int j = 0; j < lowerArr; j++){
          if(array1.length == greaterArr && array1[i] == array2[j]){
             num++;
             break;
          } else if (array2.length == greaterArr && array2[i] == array1[j]) {
             num++;
             break;
          }
       }
     }
     if (num == greaterArr) {
        return true;
     }
  return false;
}
```

```
public static boolean isSorted(int [] array) {
        if (array[0] < array [1]){
           for (int i = 2; i < array.length; i++){
              if (array[i] < array[i-1]){
                 return false;
              }
           }
        }
        if (array[0] > array[1]){
           for (int i = 2; i < array.length; i++){
              if (array[i] > array[i-1]){
                 return false;
              }
           }
        }
     return true;
  }
}
```

StringOps

```
public class StringOps {
  public static void main(String[] args) {
  }
  public static String capVowelsLowRest (String string) {
     String newS = "";
     char C;
     for (int i = 0; i < string.length(); i++){
        if (string.charAt(i) == 97 || string.charAt(i) == 101 || string.charAt(i) == 105 ||
          string.charAt(i) == 111 || string.charAt(i) == 117){
          C = string.charAt(i);
          C = 32;
          newS += C;
        } else if (string.charAt(i) >= 98 && string.charAt(i) <= 122 || string.charAt(i) == 32
                || string.charAt(i) == 65 || string.charAt(i) == 69 || string.charAt(i) == 73
                \parallel string.charAt(i) == 79 \parallel string.charAt(i) == 85){
             newS += string.charAt(i);
          } else {
             C = string.charAt(i);
             C += 32;
             newS += C;
          }
     }
     return newS;
  }
```

```
public static String camelCase (String string) {
  int indexLetter = 0;
  String substr = "";
  String newS = "";
  char C;
  for (int i = 0; i < string.length(); i++){
     if (string.charAt(i) >= 65){
        indexLetter = string.indexOf(string.charAt(i));
        break;
    }
  }
  substr = string.substring(indexLetter);
  if(substr.charAt(0) < 97){
     C = substr.charAt(0);
     C += 32;
     newS += C;
     } else {
        newS += substr.charAt(0);
     }
  for(int j = 1; j < substr.length(); j++){
     C = substr.charAt(j);
     if ((substr.charAt(j-1) == 32) \&\& (substr.charAt(j) >= 97)){}
        C = substr.charAt(j);
        C = 32;
        newS += C;
```

```
} else if ((substr.charAt(j) < 97) && (substr.charAt(j-1) != 32) && (C != 32)){
        C = substr.charAt(j);
        C += 32;
        newS += C;
} else if (C != 32){
        newS += C;
}
return newS;
}</pre>
```

```
public static int[] allIndexOf (String string, char chr) {
  int indexCounter = 0;
  int arrayIndexCounter = 0;
  for (int i = 0; i < string.length(); i++){
     if (string.charAt(i) == chr){
        indexCounter++;
     }
  }
  int[] arr1 = new int[indexCounter];
  for (int j = 0; j < string.length(); j++){
     for (int i = arrayIndexCounter; i < arr1.length; i++){</pre>
       if (string.charAt(j) == chr){
           arr1[i] = j;
           arrayIndexCounter++;
           break;
        }
     }
  }
  return arr1;
```

}