```
public class StringOps {
                        Reminder:
                  allowed methods
                  1.charAt(int index)
                  2.length()
                  3.substring(int start)
                  4.substring(int start,int ends)
                  5.indexOf(String str)
                  The rest are not allowed!
                  if you want to use a different
                  method, and you can implement
                  it using material from the course
                  you need to implement a version of
                  the function by yourself.
                  see example for substring
    public static void main(String[] args) {
        int[] newarray = allIndexOf("hello world",'l');
    for (int i = 0; i < newarray.length; i++) {</pre>
        System.out.print(newarray[i]);
    public static String capVowelsLowRest (String string) {
        String s = "";
        int i = 0;
        for (string.charAt (i); i < string.length(); i++) {</pre>
            if (string.charAt(i) == 97 || string.charAt(i) == 101 ||
string.charAt(i) == 105 || string.charAt(i) == 111 || string.charAt(i) == 117)
                s = s + (char)(string.charAt(i) - 32);
            } else if (string.charAt(i) < 91 && string.charAt(i) > 65 &&
string.charAt(i) != 69 && string.charAt(i) != 73 && string.charAt(i) != 79 &&
string.charAt(i) != 85) {
                s = s + (char)(string.charAt(i) + 32);
            } else {
                s = s + string.charAt(i);
        }
        return s;
```

```
public static String camelCase (String string) {
    string = deleteSpacebeginning (string);
    string = lowerCase(string);
    string = upperNew(string);
    string = deleteSpace(string);
   return string;
public static String lowerCase (String string) {
    String s = "";
    for (int i = 0; i < string.length(); i++) {</pre>
        if (string.charAt(i) > 64 && string.charAt(i) < 91) {</pre>
            s = s + (char)(string.charAt(i) + 32);
        } else {
          s = s + string.charAt(i);
public static String upperNew (String string) {
    String s = "" + string.charAt(0);
    for (int i = 1; i < string.length(); i++) {</pre>
        if (string.charAt(i) == 32) {
            s = s + string.charAt(i);
        }else if (string.charAt(i-1) == 32) {
            s = s + (char)(string.charAt(i) - 32);
        } else {
          s = s + string.charAt(i);
    return s;
public static String deleteSpace (String string) {
    String s = "";
    for (int i = 0; i < string.length(); i++) {</pre>
        if (string.charAt(i) != ' ') {
          s += string.charAt(i);
    }
   return s;
public static String deleteSpacebeginning (String string) {
    String s = "";
```

```
for (int i = 0; i < string.length(); i++) {</pre>
        if (string.charAt(i) != ' ') {
          s = string.substring(i); break;
    }
    return s;
public static int[] allIndexOf (String string, char chr) {
    int counter = 0;
    for (int i = 0; i < string.length(); i++) {</pre>
        if (string.charAt(i) == chr) {
            counter++;
    int[] array = new int[counter];
    for (int r = 0; r < array.length; r++) {</pre>
    for (int j = 0; j < string.length(); j++) {</pre>
        if (string.charAt(j) == chr) {
        array [r] = j;
        r++;
    return array;
```

```
public class ArrayOps {
    public static void main(String[] args) {
        System.out.println(findMissingInt(new int[]{1,0,3}));
        System.out.println(secondMaxValue(new int[] {6, 9, 4, 7, 3, 4}));
        System.out.println(containsTheSameElements(new int[] {1, 4, 1, 1, 2},
new int[] {2, 1, 4}));
        System.out.println(isSorted(new int[] {7, 5, 4, 3, -12}));
        System.out.println(isSorted(new int[] {1, -2, 3}));
        System.out.println(isSorted(new int[] {1,2,3}));
    public static int findMissingInt (int [] array) {
        boolean inArray;
        for (int index = 0; index < array.length; index++) {</pre>
            inArray = false;
           for (int p = 0; p < array.length; p++) {</pre>
            if (array[p] == index) {
                inArray = true;
```

```
if (inArray == false) {
            return index;
    return array.length;
public static int secondMaxValue(int [] array) {
    int max = array[0];
    for (int index = 0; index < array.length; index++) {</pre>
        if (array[index] >= max) {
            max = array[index];
    int check = 0;
    for (int index = 0; index < array.length; index++) {</pre>
        if (array[index] == max) {
            check++;
        }
    }
    if (check > 1) {
        return max;
    int max2 = array[0];
    for (int i = 0; i < array.length; i++) {</pre>
         if (array[i] > max2 && array[i]!=max) {
            max2 = array[i];
         }
         return max2;
    }
public static boolean containsTheSameElements(int [] array1,int [] array2)
    boolean same = false;
    for (int i = 0; i < array1.length; i++) {</pre>
        for (int j = 0; j < array2.length; j++) {</pre>
        if (array1[i] == array2 [j]) {
            same = true;
    if (same == false) {
```

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