```
public class ArrayOps {
    public static void main(String[] args) {
    public static int findMissingInt (int [] array) {
        int n = array.length;
        if (n == 1) {
            return 1;
         for (int i = 0; i < n; i++) {
            for (int j = 0; j < n - i - 1; j++) {
                if (array[j] > array[j + 1]) {
                    int temp = array[j];
                    array[j] = array[j + 1];
                    array[j + 1] = temp;
        for (int i = 0; i < n; i++){
            int y = array[i];
            if (y != i){
                return i;
            }
    public static int secondMaxValue(int [] array) {
        int n = array.length;
        for (int i = 0; i < n; i++) {
            for (int j = 0; j < n - i - 1; j++) {
                if (array[j] > array[j + 1]) {
                    int temp = array[j];
                    array[j] = array[j + 1];
                    array[j + 1] = temp;
        return array[(n - 2)];
    public static boolean containsTheSameElements(int [] array1,int [] array2) {
        boolean SameElements = true;
```

```
int n1 = array1.length;
    int n2 = array2.length;
    for (int i = 0; i < n1; i++){
        for (int j = 0; j < n2; j++){
            if (array1[i] == array2[j]) {
                break;
            else if (j == (n2 - 1)){
                SameElements = false;
    return SameElements;
public static boolean isSorted(int [] array) {
    boolean Sorted = true;
    int n = array.length;
    int[] ord = new int[n];
    for (int i = 0; i < n; i++){
       ord[i] = array[i];
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < n - i - 1; j++) {
            if (ord[j] > ord[j + 1]) {
                int temp = ord[j];
                ord[j] = ord[j + 1];
                ord[j + 1] = temp;
    int[] rev = new int[n];
    for (int i = 0; i < n; i++) {
        rev[i] = ord[n - i - 1];
    for (int i = 0; i < n; i++) {
        if (array[i] != rev[i] && array[i] != ord[i]) {
            Sorted = false;
    return Sorted;
```

StringsOps.java:

```
public class StringOps {
    public static void main(String[] args) {
    public static String capVowelsLowRest (String string) {
        String x = "";
        int n = string.length();
        for (int i = 0; i < n; i++){
            int y = (char)(string.charAt(i));
            if (string.charAt(i) == ' '){
            } else if (y == 97 \mid | y == 65){}
                x = x + "A";
            } else if (y == 101 \mid | y == 69){}
                x = x + "E";
            else if (y == 105 || y == 73){
                x = x + "I";
            } else if (y == 111 \mid | y == 79){
                x = x + "0";
            } else if (y == 117 \mid | y == 86){}
                x = x + "U";
            } else if (y > 65 \&\& y < 69){
                x = x + ((char)(y + 32));
            } else if (y > 69 \&\& y < 73){
                x = x + ((char)(y + 32));
            } else if (y > 73 \& y < 79){
                x = x + ((char)(y + 32));
            } else if (y > 79 \& y < 85){
                x = x + ((char)(y + 32));
            } else if (y > 85 \&\& y < 91){
                x = x + ((char)(y + 32));
            } else {
                x = x + string.charAt(i);
    public static String camelCase (String string) {
        String x = "";
        int n = string.length();
        for (int i = 0; i < n; i++){
            int y = (char)(string.charAt(i));
```

```
if (string.charAt(i) == ' '){
                i++;
                while (i < n - 1 \&\& string.charAt(i) == ' ') {
                    i++;
                if (i == n){
                    return x;
                } else if (i == 1){
                    if (((char)(string.charAt(i))) > 64 &&
((char)(string.charAt(i)) < 91)){</pre>
                        x = x + ((char)(string.charAt(i) + 32));
                    } else {
                        x = x + (string.charAt(i));
                    }
                } else {
                    if (((char)(string.charAt(i))) > 64 &&
((char)(string.charAt(i)) < 91)) {</pre>
                            x = x + (string.charAt(i));
                    } else {
                        x = x + ((char)(string.charAt(i) - 32));
            } else if (y >= 65 \& y <= 90){
                x = x + ((char)(y + 32));
            } else {
                x = x + string.charAt(i);
        return x;
    public static int[] allIndexOf (String string, char chr) {
        int x = 0;
        int n = string.length();
        for (int i = 0; i < n; i++){
            if (string.charAt(i) == chr){
                X++;
        int [] z = new int [x];
```

```
int j = 0;
for (int i = 0; i < n; i++){
    if (string.charAt(i) == chr){
        z[j] = i;
        j++;
    }
}
return z;
}</pre>
```