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public class ArrayOps {
    public static void main(String[] args) {
        int[] array = {1,-2,3,-4,5};
        System.out.println(findMissingInt(new int[] {3, 0, 1}));
        System.out.println(secondMaxValue(new int[] {6, 9, 4, 7, 3, 4}));
        System.out.println(containsTheSameElements(new int[] {3, -4, 1, 2, 5}, new int[]
{1, 3, -4, 5}));
        System.out.println(isSorted(new int[] {7, 5, 4, 3, -12}));
    }
    public static int findMissingInt(int[] array) {
        int n = array.length;
        int expectedSum = (n * (n + 1)) / 2;
        int actualSum = 0;
        int missing;
        if (array.length >= 1) {
            for (int i = 0; i < n; i++) {
                actualSum = actualSum + array[i];
            }
            missing = expectedSum - actualSum;
            return missing;
        }
        return -1;
    }
    public static int secondMaxValue(int[] array) {
        int firstMax = Math.max(array[0], array[1]);
        int secondMax = Math.min(array[0], array[1]);
        for (int i = 2; i < array.length; i++) {
            if (array[i] > firstMax) { //we found another max.We update the second max to
be the first
                // max as now we have a greater value and the current value to be the new
max
                secondMax = firstMax;
                firstMax = array[i];
            } else if (array[i] > secondMax) {
                secondMax = array[i]; //as it's not greater than first max but greater than
secondmax,
                // we found a new second max and change its value now
            }
        }
        return secondMax;
    }
    public static boolean containsTheSameElements(int [] array1,int [] array2) {
        boolean result1 = true;
        boolean result2 = true;
    }
}

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int count;
for (int i = 0; i < array1.length; i++) {
    count=0;
    for (int j = 0; j < array2.length; j++) {
        if(array1[i] != array2[j]){
            count++;
        }
    }
    if(count == array2.length){
        result1 = false;
        break;
    }
}
for (int i = 0; i < array2.length; i++) {
    count=0;
    for (int j = 0; j < array1.length; j++) {
        if(array2[i] != array1[j]){
            count++;
        }
    }
    if(count == array1.length){
        result2 = false;
        break;
    }
}
return result1 && result2;
}

public static boolean isSorted(int[] array) {
    boolean increase = true;
    boolean decrease = true;
    for (int i = 1; i < array.length; i++) {
        if (array[i - 1] > array[i]) { //we found an element that is greater than the
following one
            increase = false;
            break;
        }
    }
    for (int i = 1; i < array.length; i++) {
        if (array[i - 1] < array[i]) { //we found an element that is smaller than the
following one
            decrease = false;
            break;
        }
    }
}

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        return increase || decrease;
    }
}
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public class StringOps {
    public static void main(String[] args) {
        System.out.println(capVowelsLowRest("Hello World"));
        System.out.println(capVowelsLowRest("One two thRee world"));
        System.out.println(capVowelsLowRest("vowels are fun"));
        System.out.println(capVowelsLowRest("intro"));
        System.out.println(capVowelsLowRest("yellow"));
        System.out.println(camelCase("Hello World"));
        System.out.println();
        System.out.println(camelCase(" two   words"));
        System.out.println();
        System.out.println(camelCase("world"));
        System.out.println();
        System.out.println(camelCase(" Intro to coMPUter sCIEncE  "));
        System.out.println(allIndexof("Hello world",'l'));
        System.out.println(allIndexof("Hello worLd",'l'));
        System.out.println(allIndexof("Hello world",'0'));
        System.out.println(allIndexof("Hello world",' '));
        System.out.println(allIndexof("MMMM",'M'));
    }
    public static String capVowelsLowRest(String string) {
        String str = "";
        for (int i = 0; i < string.length(); i++) {
            if (string.charAt(i) == 'a' || string.charAt(i) == 'e' || string.charAt(i) == 'i' ||
string.charAt(i) == 'o' || string.charAt(i) == 'u') {
                char chr = (char) (string.charAt(i) - 32);
                str = str + chr;
            } else if ((string.charAt(i) > 'A' && string.charAt(i) <= 'Z') && (string.charAt(i) !=
'A' && string.charAt(i) != 'E' && string.charAt(i) != 'I' && string.charAt(i) != 'O' &&
string.charAt(i) != 'U')) {
                char chr = (char) (string.charAt(i) + 32);
                str = str + chr;
            } else {
                str = str + string.charAt(i);
            }
        }
        return str;
    }
    public static String camelCase(String string) {
        String str = "";
        int indexSpace = 0;
        int numberOfLetters = string.length();
        int index=0;
        for (int i = 0; i <string.length()-1 ; i++) {

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        if((int)string.charAt(i)!=32 && (int)string.charAt(i+1)==32 ){
            indexSpace=i+1;
            break;
        }
    }
    for (int j = 0; j < indexSpace; j++) {
        if (string.charAt(j) == ' ') {
            continue;
        }
        if ((int) string.charAt(j) >= 65 && (int) string.charAt(j) <= 90) {
            char chr = (char) ((int) string.charAt(j) + 32);
            str = str + chr;
        } else {
            str = str + string.charAt(j);
        }
    }
    for (int i = indexSpace; i < numberOfLetters - 1; i++) {
        if (string.charAt(i) == ' ' && string.charAt(i + 1) != ' ') {
            if ((int) string.charAt(i + 1) >= 65 && (int) string.charAt(i + 1) <= 90) {
                char chr = (char) ((int) string.charAt(i + 1));
                str = str + chr;
            }
            else{
                char chr = (char) ((int) string.charAt(i + 1)-32);
                str = str + chr;
            }
        }
        if (string.charAt(i) != ' ' && string.charAt(i + 1) != ' ') {
            if ((int) string.charAt(i + 1) >= 65 && (int) string.charAt(i + 1) <= 90) {
                //    indexSpaceStart = i + 1; //önceki boş sonraki doluysa yeni indeximiz
                i+1 dir
                char chr = (char) ((int) string.charAt(i + 1) + 32);
                str = str + chr;
            } else {
                char chr = (char) ((int) string.charAt(i + 1));
                str = str + chr;
            }
        }
    }
    return str;
}

public static int[] allIndexOf(String word, char chr) {
    int count = 0;
    for (int i = 0; i < word.length(); i++) {

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        if (word.charAt(i) == chr) {  
            count++;  
        }  
    }  
    int[] array = new int[count];  
    int index = 0;  
    for (int i = 0; i < word.length(); i++) {  
        if (word.charAt(i) == chr) {  
            array[index] = i;  
            index++;  
        }  
    }  
    return array;  
}
```