

ArrayOps

```
public class ArrayOps
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
    }
```

```
    public static int findMissingInt (int [] array) {
```

```
        for (int i=0;i<array.length+1;i++)//checking all the number from 0 to length
```

```
        {
```

```
            boolean ifexist=true;//assume that the number is not exist
```

```
            for(int j=0;j<array.length;j++)
```

```
            {
```

```
                if(i==array[j])//check if the number exist
```

```
                {
```

```
                    ifexist=false;
```

```
                    break;//braeking from the loop beacuse the number exist
```

```
                }
```

```
            }
```

```
            if(ifexist)//check if the number exist
```

```
                return i;
```

```
        }
```

```
        return -1;
```

```
    }
```

```
    public static int secondMaxValue(int [] array)
```

```
    {
```

```
        int indexofgrater = 0;
```

```

int maxarry = array[0];//detrer the max
int secondmax = array[0];//deter the second max
for (int i=0;i<array.length;i++)
{
    if(maxarry<array[i])
    {
        indexofgrater = i;//saving the index of the max number
        maxarry=array[i];//checking what is the max
    }
    secondmax = Math.min(array[i],secondmax);//checking what is the min
to be the second max
}
for (int i=0;i<array.length;i++)
{
    if(i!=indexofgrater&&array[i]>secondmax)//check if the number is
grater than the second max but not the max
        secondmax = Math.max(array[i],secondmax);
}
return secondmax;

}

```

```

public static boolean containsTheSameElements(int [] array1,int [] array2)
{
    for(int i = 0;i<array1.length;i++)//checking if all first arry elments exist in
the second
    {
        boolean isexsist = true;//assume that the elment doesnt exist
        for (int j=0;j<array2.length;j++)

```

```

{
    if(array1[i]==array2[j])//cheking if the elment exist
    {
        isexist=false;
        break;//braking from the loop cause the elment exist
    }

}
if(isexist)
    return false;
}

for(int i = 0;i<array2.length;i++)//checking the oppoist direction
{
    boolean isexist = true;//assume that the elment doesnt exist
    for (int j=0;j<array1.length;j++)
    {
        if(array2[i]==array1[j])//cheking if the elment exist
        {
            isexist=false;
            break;//braking from the loop cause the elment exist
        }

    }
    if(isexist)
        return false;
}
return true;
}

```

```

public static boolean isSorted(int [] array)
{
    if(array[0]<array[1])//cheking if is increasing
    {
        for(int i=1;i<array.length;i++)
            if(array[i]<array[i-1])//if the arry isnot increasig then returning false
                return false;
        return true;
    }
    if(array[0]>array[1])//checking if the function decreasing
    {
        for(int i=1;i<array.length;i++)
            if(array[i]>array[i-1])//if one time the function is not decrease return
false
                return false;
        return true;
    }
    return false;
}
}

```

StringOps

```
public class StringOps
{

    public static void main(String[] args)
    {
        System.out.println(capVowelsLowRest("onE twO thrEE wOrld"));
    }

    public static String capVowelsLowRest (String s) {
        String newone="";
        char newchar ='a';
        String forcheck = "AEIOUaeiou";
        for(int i = 0;i<s.length(); i++)
        {
            int valueofchar=s.charAt(i);//getting the value of the char
            if(forcheck.indexOf(s.charAt(i))>-1)//check if the letter is one of the
chosen one
            {
                if(64<valueofchar&&valueofchar<91)//check if the letter is Capital
                    newchar = (char)(valueofchar);
                else newchar = (char)(valueofchar-32);//the letter his small one so i
will make it capital
            }
            else
            {
                if(64<valueofchar&&valueofchar<91)//check if the letter is Capital
                    newchar = (char)(valueofchar+32 );
                else newchar = (char)(valueofchar);//the letter his small one so i will
make it capital
            }
        }
    }
}
```

```

    }
    newone += newchar;//adding the char

}

return newone;
}

public static String camelCase (String s)
{

    String newone = "";
    char newchar = s.charAt(0) ;
    int valueofchar = s.charAt(0);
    int indexfirst = 0;
    for(int i=0;i<s.length();i++) //checking what is the first letter
    {
        if(s.charAt(i) != ' ')
        {
            valueofchar = s.charAt(i);
            newchar = s.charAt(i) ;
            if(64<valueofchar&&valueofchar<91)//check if the letter is Capital
            newchar = (char)(valueofchar+32 );
            newone +=newchar;
            indexfirst = i;//saving the first index of letter
            break;
        }
    }
    for(int i=indexfirst+1;i<s.length();i++)
    {

```

```

        valueofchar = s.charAt(i);
        if(s.charAt(i) != ' ')//check if this is not space
        {
            if(s.charAt(i-1) == ' ')//check if previous char was space
            {

                if(valueofchar>91)//check if it is small letter
                    newchar = (char)(valueofchar -32 ); //making the letter to be
capital
                    else newchar = (char)(valueofchar);
                    newone +=newchar;//adding the char
                }

            else
            {
                if(64<valueofchar&&valueofchar<91)//check if the letter is Capital
                    newchar = (char)(valueofchar+32 );
                else newchar = (char)(valueofchar);//if itsnot capital letter
                newone +=newchar;//adding the char
            }

        }
    }
    return newone;
}

```

```

public static int[] allIndexof (String s, char chr) {
    int count = 0;//counting how many time the letter exist
    for(int i=0;i<s.length();i++)
        if(s.charAt(i)==chr)//counting it
            count++;
}

```

```
int[] allindex = new int [count];
int indexofarray = 0;//checking the index of the array
for(int i=0;i<s.length();i++)//put the exist index on the array
    if(s.charAt(i)==chr)
    {
        allindex[indexofarray]=i;
        indexofarray++;
    }
    return allindex;
}
```