

Task 4

Write a program defining four natural numbers from the range $[0, 255]$ and representing components of a color: α , red, green, blue. Then pack these four numbers into one **int**, bytes of which (from the most to the least significant) correspond to the four components of the color in the order given above.

Using only this integer, unpack it to four numbers corresponding to the four components of the color.

For example, the following program

[download ColorBytes.java](#)

```
public class ColorBytes {
    public static void main(String[] args) {
        int a = 23, r = 121, g = 255, b = 130, color = 0;

        // pack four components into one int color
        //
        // ...
        //

        System.out.println("a, r, g, b = " + a +
                           ", " + r + ", " + g + ", " + b);
        System.out.println("color = " + color);
        a = r = g = b = 0;

        // unpack color to get its four
        // components back in a, r, g, b
        //
        // ...
        //
        System.out.println("a, r, g, b = " + a +
                           ", " + r + ", " + g + ", " + b);
    }
}
```

should print

```
a, r, g, b = 23, 121, 255, 130
color = 393871234
a, r, g, b = 23, 121, 255, 130
```

Put your Java file(s), and only Java files, in a directory the name of which is your surname (without Polish or any other non-ASCII characters). Names of Java files are arbitrary, although of course they should correspond to names of classes you created. Zip the whole directory (“from above” — not just the files inside it). Then drop the zip file created in this way into folder “Tasks / Task_XX” of the GAKKO system (where ‘XX’ is the task number).