November 24, 2020

Task 5

Create an array of size SIZE and then generate random integers from the range $[1, \text{NUMS}]$ and put them into consecutive elements of the array, but only if there is no element with this value in the array (what makes sense only if SIZE $\leqslant$ NUMS, of course). When the array is filled, program prints the number of trials and the resultant array.

For example, the following program

download *FillArray.java*

```
import java.util.Arrays;

public class FillArray {
    public static void main(String[] args) {
        final int SIZE = 10;
        final int NUMS = 13;
        int[] arr = new int[SIZE];
        int counter = 0;

        // your code here

        System.out.println("With SIZE=" + SIZE + " and " +
                "NUMS=" + NUMS + " the array\nhas been " +
                "filled after " + counter + " trials");
        System.out.println("Array: " + Arrays.toString(arr));
    }
}
```

could print

```
With SIZE=10 and NUMS=13 the array
has been filled after 19 trials
Array: [3, 9, 6, 2, 8, 4, 12, 1, 10, 5]
```

Deadline: Dec 5 (inclusive)

Put yout 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).