Task 8

Write static functions operating on and returning Strings:

```
public static String norm(String name)
public static String init(String name)
public static String tr(String s, String from, String to)
```

- the first returns a string which is similar to name, but the first letter is always in upper case and all the remaining characters are in lower case (e.g., "jOhN" → "John");
- the second takes a full name, i.e., first name, perhaps a middle name and the lastname, separated by exactly one space; it returns a string in which first and middle name are replaced by the initials (upper case, with a dot after the letter), and the last name starts with a capital letter with all the remaining letters in lower case (e.g. "john richard doe" → "J. R. Doe"). Note: method split from class String splits a string into parts separated by a separator which is passed as an argument and returns them as an array of Strings, e.g., after

```
String[] a = "abc def ghi".split(" ");
```

the array a will contain three elements: "abc", "def" and "ghi".

• the third returns a **String** in which all characters from **s** that are present in from are replaced by the corresponding (on the same position) characters from to. For this to make sense, all characters in from must be different and from and to should be of the same length. For example, if from is "abc" and to "XXY", then all occurrences of 'a' and 'b' should be replaced by 'X' and 'c' by 'Y'.

For example, the program

where

```
System.out.println(init("WOLFGANG a. mozart"));
            System.out.println(tr("November 2016",
                         "abcdefghijklmnopqrstuvwyz",
                         "ABCDEFGHIJKLMNOPQRSTUVWYZ"));
            System.out.println(tr("abcXYZ","aZcX","||Cx"));
        }
    }
should print
    Caravaggio
    Vermeer
    J. S. Bach
    I. Babel
    J. L. Borges
    W. A. Mozart
    NOVEMBER 2016
    |bCxY|
```

Do not use any classes except those in the package java.lang.

Deadline: June 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).