SE-007 **Algorithms and data structures**

Home task 4. 5 points.

Submit your **JAVA** code solutions in Moodle.

Task 1. Max 2.5 points

Given an array:

20	2	33	Your date of birth	-5	87	566	6

1. Initialize array.
2. Print array.
3. Find minimum.
4. Find maximum.
5. Find average.
6. Sort using Selection Sort. Print result. Reassign the initial values to the array before performing Bubble Sort.
7. Sort using Bubble Sort.
8. Reverse the array.

Task 2. Max 2.5 points

Given a two-dimensional array:

-3	33	8	2	Any number you like	6	66	266
1	0	2	0	Your Birthday day	-5	7	0
0	0	0	4	0	44	5	0
6	5	Your month of birth	34	6	0	0	2

1. Initialize array.
2. Print array.
3. Find average value
4. Find average value in row 0.
5. Find minimum in column 0.
6. Find maximum in row 1.
7. Find average value in row 0.
8. Find average value in column 6.