

# ASSIGNMENT 9

(Ask your question on Coadsys and **Çağrı Yeşil** is the responsible assistant for this assignment and grading)

Write a C function which arranges the elements in an array in such a way that all elements smaller than a given value are placed into positions to the left of the elements that are larger than the given value. You have to implement a function with the following prototype:

```
void organizer(int a[], int size, int x);
```

where the array elements have to be organized based on x value.

- For instance if the array contents are {4,6,2,9,1,7,3,10} and x is given as 5, then {4,3,1,9,7,6,10} is a possible solution, since all elements smaller than 5 are to the left of the elements larger than 5.
- Note that if we sort the array, the given constraint is satisfied, however you are allowed to access each element of the array only for once.
- Also, implement a function which prints the contents of an array. Both functions must be **implemented recursively**.
- Also, using brackets [ ] is **forbidden** except for defining the array in the main function.
- **Do not** change the function prototype.
- **Do not** use global variables.
- **Do not** use extra functions.
- **Loops are strictly forbidden.**

## **WARNING:**

- Submit only the source file in the format **assignment9\_name\_surname.c**
- Be sure the extension of your file is **.c**. If you do not know how to check the extension please look at the file ("How to run your code?") on the COADSYS.
- Do not use any library other than **stdio**.