BIL 142 LAB 4

Implement the functions below.

- **int minimum(int *array, int size)**
  - ➔ This function takes the int array and the size of the array as input. It should return the smallest element of the array as a result.

- **void swapTimesX(int *xptr, int *yptr, int x)**
  - ➔ This function takes 2 int pointers and an integer x input. It should multiply the values of 2 pointers by the x value and swap the values between them(xptr's value to yptr and vice versa).

- **int *doubleArray(int *array, int size)**
  - ➔ This function takes the int array and the size of the array as input. It must create a new array twice the size of input size.
  - ➔ The function must copy the content of the input array into the first half of the new array, and each value of the input array should be added to the second half of the new array after being charged 2 times.
  - ➔ The input "size" cannot be negative, check whether it is negative or not.
  - ➔ The function must return the new array with a pointer, e.g:
    int* resultDoubleArray = doubleArray(inputArray, 5);

- **int *subArray(int *array, int start, int length)**
  - ➔ This function takes an int array, starting index and a length as input.
  - ➔ It copies the element of the array as many as "length" starting from the given "start" index into a new array.
  - ➔ For example, subArray(array, 5, 4) returns an array containing the values array[5], array[6], array[7], and array[8].
  - ➔ Inputs "start" and "length" cannot be negative, check whether they are negative or not.

Important: Add comments to your code and at the top of your code note which compiler you're using in a comment
Suggestion: Writing a main function all functions can be useful for you to check if the code is working(optional).

Upload your code file to 'uzak'.(deadline 21:10)