RECEP TAYYIP ERDOGAN UNIVERSITY
FACULTY OF ENGINEERING AND ARCHITECTURE
COMPUTER ENGINEERING DEPARTMENT

CE103 Algorithms and Programming-I

2022-2023 Fall

Homework No: 2

Due Date: 4.11.2022

Student Name Surname

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Student No

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Instructor

Asst. Prof. Dr. Uğur CORUH

RIZE

2022

ETHICAL STATEMENT

I hereby declare that all information in this document has been obtained and presented in accordance with academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

Date: 3 / 11 / 22

Name Surname   Melih Divan

Problem-1 (100 points):
In this problem, you will develop the required functions listed below. All function descriptions are written, and parameters are defined. Develop functions and do not share any code that you didn't understand. Explain your source code with inline comments. Open a github repository named **ce103-hw2-2022-2023-name-surname** and commit frequently **each function implementation should have at least one commit**
You need to explain your solution when we control your homework.

In the solution file, you will find the following projects
Solution Name
ce103-hw2
Project names
ce103-hw2-test-app
(for using library functions not required, but if you need you can try functions with this console application)
ce103-hw2-lib-test
(include unit test)
ce103-hw2-lib
(include library functions) -> You will write functions here…

You will find descriptions in the
ce103-hw2-lib.h
.
.
.
Doxygen Usage and Documentation Generation
In the solution folder, you will find the doxygen folder and in this folder there is a doxygen configuration file named **doxygen**
Open this file with doxywizard and update project synopsis with with your name, surname and student id such as "Ugur CORUH 11111111" and save file.
Then in the same folder, there is a doxy_run.bat file to generate Doxygen documentation.
Before running this bat file you need to complete setup, check the guide in the link
https://github.com/ucoruh/doxygen-usage

When you complete installation then you can use doxygen and run doxy_run.bat. Othercase you will have errors.
Please generate the following output formatted documentation of your source code.
- Html
- Pdf
- Word

You will show this files as output and they should include your name and surname.
You can generate following documentation pages with doxygen

How did I solve the problem;

-Downloaded hw2 template
-I opened a github repo and linked it to my folder
-I searched how to write the wanted functions in web
-I also discussed about them with my friends
-I wrote my functions to ce103-hw2-lib.c
-I downloaded doxygen and renamed synopsis with my name
-I created html documentation

Sources
www.geeksforgeeks.org
www.stackoverflow.com
www.quora.com