**CCDSALG Term 3, AY 2023 – 2024**

**Project 2 Documentation – Social Network (Undirected Graph Application)**

**DECLARATION OF INTELLECTUAL HONESTY / ORIGINAL WORK**

We declare that the project that we are submitting is the product of our own work. No part of our work was copied from any source, and that no part was shared with another person outside of our group. We also declare that each member contributed to the project as indicated in the table below.

| **Section** | **Names and Signatures** | **Task 1** | **Task 2** | **Task 3** | **Task 4** | **Task 5** |
| --- | --- | --- | --- | --- | --- | --- |
| <S??> | <LastName1>, <FirstName1> <Signature> |  |  |  |  |  |
| <S??> | <LastName2>, <FirstName2> <Signature> |  |  |  |  |  |
| <S??> | <LastName3>, <FirstName3> <Signature> |  |  |  |  |  |

Fill-up the table. For the tasks, put an X mark if you have performed the specified task. Please refer to the project specifications for the description of each task. Don’t forget to affix your signature.

| 1. Indicate how to compile (if it is a compiled language) your codes, and how RUN (execute) your program from the COMMAND LINE. Examples are shown below highlighted in yellow. Replace them accordingly. Make sure that all your group members test what you typed below because I will follow them verbatim. I will initially test your solution using the sample input text file that you submitted. Thereafter, I will run it again using my own test data:   * How to compile from the command line (for compiled language only):   C:\CCDSALG> **gcc -Wall GROUP-1.c -o GROUP-1.exe**   * How to run from the command line   C:\CCDSALG>**GROUP-1** |
| --- |
| 2. How did you implement your Graph data structure? Did you implement it using adjacency matrix? adjacency list? Why? Explain briefly (at most 5 sentences). |
| 5. How did you implement the DFS and BFS traversals? Explain your algorithm succinctly.   1. DFS Traversal: 2. BFS Traversal: |
| 6. Disclose what is NOT working correctly in your solution. Be honest about this. Explain briefly the reason why your group was not able to make it work. |
| 7. What do you think is the level of difficulty of the project (was it easy, medium or hard)? Which part is hard (if you answered hard)? Type your answer individually for this question.  Lastname1, Firstname1:  Lastname2, Firstname2:  Lastname3, Firstname3: |
| 8. Are you submitting solutions for:   * Bonus opportunity #1 (Yes/No): \_\_\_\_ * Bonus opportunity #2 (Yes/No): \_\_\_\_   Request: If you know in advance that your solution to the bonus portion is not working correctly, then please DO NOT submit it so as not to waste precious time for both of us.  Copy/paste below two screenshots of the drawings produced by your program. Crop out the unnecessary portions. Make sure that the images are large “enough” to see the details. I will test your project to verify that the images produced by your program are the same with the copy/pasted screenshots.  **Screenshot of the original graph** (corresponding to the data encoded in the sample input text file you submitted):  <paste screenshot here; then remove this line of text>  **Screenshot of the graph due to the BFS traversal** (corresponding to the data encoded in the sample input text file you submitted):  <paste screenshot here; then remove this line of text> |
| 9. Fill-up the table below. Refer to the rubric in the project specs. It is suggested that you do first an individual self-assessment. Thereafter, compute the average evaluation for your group, and encode it below.   | **REQUIREMENT** | **AVE. OF SELF-ASSESSMENT** | | --- | --- | | 1. Correctly produced the list of vertices and their corresponding degrees | \_\_\_ (max. 15 points) | | 1. Correctly produced the BFS traversal | \_\_\_ (max. 35 points) | | 1. Correctly produced the DFS traversal | \_\_\_ (max. 35 points) | | 1. Documentation | \_\_\_ (max. 10 points) | | 1. Compliance (deduct 1 point for every instruction not complied with) | \_\_\_ (max. 5 points) | | Bonus opportunity #1: Drawing of the given graph | \_\_\_ (0 or 10 points) | | Bonus opportunity #2: Drawing of the BFS tree | \_\_\_ (0 or 10 points) | | **TOTAL SCORE** | \_\_\_ over 100. |   NOTE: The evaluation that the instructor will give is not necessarily going to be the same as what you indicated above. The self-assessment serves primarily as a guide. |