**CCDSALG Term 3, AY 2019 – 2020**

**Project 3 Documentation – Word List (Binary Search Tree Application)**

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| **Section** | **Names** | **Task 1** | **Task 2** | **Task 3** | **Task 4** | **Task 5** |
| S12 | Gan, John Matthew Ong |  |  |  |  |  |
| S16 | Noblefranca, Jose Noel Cleofe |  |  |  |  |  |
| S15 | Remudaro, Angelo Alvarez |  |  |  |  |  |

Fill this part with your section and names. For the tasks, put an X mark if you have performed the specified task. Please refer to the project specifications for the tasks.

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| 1. Programming Language Used: C |
| 2. Why did you choose the programming language above for Project 3? Explain briefly (1 to 2 sentences).    We chose C as our programming language because Binary Search Trees are simple to implement in C and the built-in methods In addition to this, the lectures about BSTs are implemented in C and this gave us a vague idea of where to start. |
| 3. Depending on the programming language used:   1. List the libraries or APIs that you used in your implementation   C Standard Library   * stdio.h * stdlib.h * string.h  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 main.c -o main.exe**   * How to run from the command line   C:\CCDSALG>**main.exe** |
| 4. How did you implement your BST data structure? Did you implement a single BST or multiple BST? Why? Explain briefly (2 to 3 sentences).    We implemented a common BST data structure that includes the data, and the left and right child. We also used a single BST to store all the data since our Insert function contains the algorithm to alphabetize the nodes. |
| 5. 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. |
| 6. 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: |
| 7. 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. BST | \_\_\_ (max. 50 points) | | 2. Input File Parsing | \_\_\_ (max. 20 points) | | 3. Output File | \_\_\_ (max. 15 points) | | 5. Documentation | \_\_\_ (max. 10 points) | | 6. Compliance with Instructions | \_\_\_ (max. 5 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. |