**CS3103 Project A Report**

**Group Information**

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| --- | --- | --- | --- |
| Member | Name | SID | Email |
| #1 (contact person) |  |  |  |
| #2 |  |  |  |
| #3 |  |  |  |

Note: Please specify each team member's contribution if not all members make significant contributions to this project.

**Problem 1**

**Question 1:** When executing the three lines (104-106) of code, does the variable *global\_param* have the same value as the input parameter? Why? How about the variables *local\_param*, and *shared\_param\_c*? **Please explain your answers.**

**Question 2:**

1) Have you successfully implemented the program? If not, please provide potential reasons for the issues.

2) How do you handle the thread deadlocks when using the semaphore?

3) Implemented functions.

**Problem 2**

1) Have you successfully implemented the program? Has your program passed all the provided 3 test cases? If not, please provide potential reasons for the issues.

2) How you find all the text files under a directory, i.e., the implementation of *traverseDir()* function. (*Hint: You may describe the system calls, the data structures, the header files, and any other functions used in your code.*)

3) How you achieve the synchronization between two processes using the semaphore.

4) How you handle the case that the total size of a text file exceeds the buffer size.

5) Implemented functions.