**CS2106 Introduction to Operating Systems**

**Lab 1 - Leveling Up on C**

**Answer Book**

Please read the instructions in the main lab sheet before completing this document. Submission deadline is **Sunday 6 February 2022, 11.59 pm**.

|  |  |
| --- | --- |
| **Student 1** | |
| Name: |  |
| Student ID (A0218297U): |  |
| Group (B12): |  |
| **Student 2** | |
| Name: |  |
| Student ID (AxxxxxxY): |  |
| Group (Bxx): |  |

Section 1.

**Question 1.1 (1 mark)**

The ‘ “ ’ prioritizes headers in the current working directory over system headers. ‘ < > ‘ is usually used for system headers.

**Question 1.2 (1 mark)**

Static variable is a reserved word which preserves its value even after they are out of their scope. Moreover, they are not initialized again in the new scpe.

**Question 1.3 (1 mark)**

<Your answer here>

**Question 1.4 (1 mark)**

<Your answer here>

**Question 1.5 (1 mark)**

<Your answer here>

Section 2

**Question 2.1 (1 mark)**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Global / Local** | **Address** |
| p1 |  |  |
| p2 |  |  |
| p3 |  |  |
| p4 |  |  |
| w |  |  |
| x |  |  |
| y |  |  |
| z |  |  |

**Question 2.2 (1 mark)**

|  |  |
| --- | --- |
| **Variable** | **Location (S, D, T or H)** |
| p1 |  |
| p2 |  |
| p3 |  |
| p4 |  |
| w |  |
| x |  |
| y |  |
| z |  |

How I inferred these answers from Q2.1:

**Question 2.3 (1 mark)**

<Your answer here>

**Question 2.4 (1 mark)**

<Your answer here>

**Question 2.5 (1 mark)**

<Your answer here>

Section 3

**Question 3.1 (1 mark)**

<Your answer here>

**Question 3.2 (1 mark)**

<Your answer here>

**Question 3.3 (1 mark)**

<Your answer here>

**TOTAL: \_\_\_\_\_\_\_\_\_\_\_ / 13**