COMP6008 Data Structures and Algorithms

Assessment 1

Submitted By

XXX

Student ID

XXX

Module One Programming Tasks

Task 1: Lexicographical order

1. Solution code (compulsory)

|  |
| --- |
|  |

2. Testing inputs and outputs (compulsory)

|  |  |
| --- | --- |
| Input | Output |
| Case 1 |  |
| Case 2 |  |
| … |  |

3. Screenshots of tests (compulsory)

4. Analysis of experiment results(if required)

5. Reflection on the use of online resources including GenAI (if any)

* What resource? (e.g., ChatGPT, Stack Overflow)
* How did you use it?
* How did it assist you in completing this task?

Task 2: Checking unbalanced opening and closing tags in HTML

Task 3: Benchmark two queue implementations

Module Two Programming Tasks

Task 4: Longest consecutive sequence

Task 5: Alternative pivot value for quicksort

Task 6: Intersection of sets

Module Three Programming Tasks

Task 7: First occurrence of binary search

Task 8: Stable sort insertion