COMP6008 Data Structures and Algorithms

Assessment 2

Submitted By

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Student ID

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Module Four Tasks

Task 1:Consecutive increasingly ordered substring

1. Solution code (compulsory)

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| --- |
|  |

2. Testing inputs and outputs (compulsory)

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

3. Screenshots of tests (compulsory)

4. Answers to questions (if required)

5. 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: Longest subsequence with the same number

Task 3: Substring matching

Module Five Tasks

Task 4: O(n) Array sorting

Task 5: Bin packing

Module Six Tasks

Task 7: Hybrid sort

Task 8: Sorting a million 32-bit integers