**Assignment 2 – Report**

**Data Structure & Algorithms**

**Dat Duong – 100886108**

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1. **Introduction:**
2. **Detailed Visualization:**
3. **Sorting Processes:**

* **Merge Sort:**

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| 11 | 1 | 30 | 2 | 51 | 6 | 29 | 7 | 67 | 15 | 118 | 4 | 89 | 23 |

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| 11 | 1 | 30 | 2 | 51 | 6 | 29 |

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| 7 | 67 | 15 | 118 | 4 | 89 | 23 |

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| 11 | 1 | 30 | 2 |

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| 51 | 6 | 29 |

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| 1 | 2 | 6 | 11 | 29 | 30 | 51 |

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| 4 | 7 | 15 | 23 | 67 | 89 | 118 |

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| 1 | 2 | 4 | 6 | 7 | 11 | 15 | 23 | 29 | 30 | 51 | 67 | 89 | 118 |

* **Quick Sort:**

1. **Simulation Program:**
2. **Code Implementation:**
3. **Conclusion:**