**Compulsory 2**

Link to GitHub repository: <https://github.com/Zartok89/Complulsory_2>

Description of the algorithms chosen, how they work, and why you have chosen an iterative/recursive approach to their implementation.

**Selection Sort:** aaa

**Merge Sort:** aaa

**Quick Sort:** aaa

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| **Time Complexity** | **Space Complexity** |
| Time Complexity  Explain what it does for the selected algorithms | Space Complexity  Explain what it does for the selected algorithms |

|  |  |
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| **Algorithm** | **Int Amount and Time Taken (milliseconds)** |
| Selection Sort | Int = 10, Time Taken = 0 ms  Int = 100, Time Taken = 0 ms  Int = 1000, Time Taken = 2 ms  Int = 10000, Time Taken = 231 ms |
| Merge Sort | Int = 10, Time Taken = 0 ms  Int = 100, Time Taken = 0 ms  Int = 1000, Time Taken = 1 ms  Int = 10000, Time Taken = 13 ms |
| Quick Sort | Int = 10, Time Taken = 0 ms  Int = 100, Time Taken = 0 ms  Int = 1000, Time Taken = 0 ms  Int = 10000, Time Taken = 2 ms |

Reflection on which of those algorithms and approaches is best and why. Define why you believe that is best (is it because it takes less time, less memory, ease of implementation...?).