**CS2023 - DATA STRUCTURES AND ALGORITHMS IN-CLASS LAB EXERCISE**

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• Iterative and non-iterative merge sort

|  |  |  |
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| **Array length** | **Time Taken Recursive Merge Sort** | **Time taken Iterative Merge Sort** |
| 1000 | 0.00105 | 0.001629 |
| 5000 | 0.004849 | 0.022442 |
| 10000 | 0.1029 | 0.094457 |
| 15000 | 0.028837 | 0.309653 |
| 20000 | 0.050037 | 0.497652 |
| 25000 | 0.073977 | 0.704183 |









