CS2023 - Data Structures and Algorithms

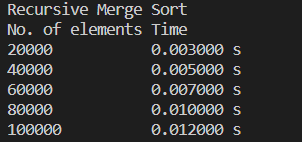
In-class Lab Exercise - Week 4

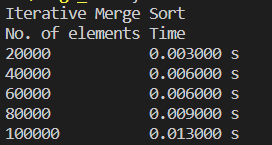
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**Time taken for each algorithm**





|  |  |  |
| --- | --- | --- |
| **Array Size** | **Time taken for merge sort (ms)** | |
| **Recursive** | **Iterative** |
| 20000 | 3 | 3 |
| 40000 | 5 | 6 |
| 60000 | 7 | 6 |
| 80000 | 10 | 9 |
| 100000 | 12 | 13 |

The recursive and iterative algorithms have taken roughly the same amount of time.

**Time Graph**