**Time & Performance** **of the algorithms**

|  |  |  |
| --- | --- | --- |
| Size | Merge | Quick |
| 5000 | 0.001 | 0.001 |
| 10000 | 0.004 | 0.001 |
| 15000 | 0.004 | 0.003 |
| 20000 | 0.006 | 0.004 |
| 25000 | 0.007 | 0.004 |
| 30000 | 0.007 | 0.004 |
| 35000 | 0.009 | 0.005 |
| 40000 | 0.01 | 0.006 |
| 45000 | 0.011 | 0.008 |
| 50000 | 0.011 | 0.011 |
| 55000 | 0.013 | 0.01 |
| 60000 | 0.015 | 0.013 |
| 65000 | 0.017 | 0.015 |
| 70000 | 0.019 | 0.015 |
| 75000 | 0.021 | 0.017 |
| 80000 | 0.02 | 0.017 |
| 85000 | 0.022 | 0.015 |
| 90000 | 0.019 | 0.018 |
| 95000 | 0.027 | 0.027 |
| 100000 | 0.039 | 0.033 |

