|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Number of Comparision | | Average Execution Time | |
|  | **Merge Sort** | **Quick Sort** | **Merge Sort** | **Quick Sort** |
| Random 2000 | 19425 | **17547** | 1745148 | 2129227 |
| Random 4000 | 42825 | **38111** | 2038995 | 1800378 |
| Random 6000 | 67884 | **61908** | 6637361 | 1778965 |
| Random 8000 | 93629 | **76319** | 12530504 | 6410674 |
| Random 10000 | 120374 | **107837** | 15879367 | 14281894 |
| Ascending 2000 | **11088** | 17964 |  |  |
| Ascending 4000 | **24176** | 39917 |  |  |
| Ascending 6000 | **39152** | 63822 |  |  |
| Ascending 8000 | **52352** | 87822 |  |  |
| Ascending 10000 | **69008** | 113631 |  |  |
| Descending 2000 | **10864** | 15974 |  |  |
| Descending 4000 | **23728** | 35928 |  |  |
| Descending 6000 | **36656** | 57834 |  |  |
| Descending 8000 | **51456** | 79834 |  |  |
| Descending 10000 | **64608** | 103644 |  |  |