|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SORT TYPE | 50 sorts(ms) | 100 sorts(ms) | 150 sorts(ms) | 200 sorts(ms) |
| Bubble Random | 40.667 | 149.0 | 364.33 | 603.0 |
| Bubble Ascending | 1.3333 | 2.0 | 3.0 | 4.0 |
| Selection Random | 26.0 | 91.667 | 202.0 | 334.67 |
| Selection Ascending | 24.0 | 103.33 | 259.67 | 320.0 |
| Insertion Random | 21.0 | 51.0 | 121.33 | 210.33 |
| Insertion Ascending | 1.0 | 3.0 | 6.33 | 8.0 |

From the times it took to do the random sorts, bubble sort took the most time, followed by selection and then insertion sorting. This is also the case with complexity. Bubble sort being the most basic in form and thus taking the longest to complete a sort. Insertion being the most complex and therefore having faster times than selection sort. However the data shows the selection struggled heavily with ascending order sort and the most simplest, bubble winning this category.