|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sorting algorithm | Time complexitry | Input=10 | Input=1000 | Input=1000000 |
| Bubble sort | O(n2) | 10-7 | 10-3 | 103 |
| Selection sort | O(n2) | 10-7 | 10-3 | 103 |
| Insertion sort | O(n2) | 10-7 | 10-3 | 103 |
| Shell sort | Depend on value of gap |  |  |  |
| Merge sort | O(n2) | 10-7 | 10-3 | 103 |
| Quick sort | O(n2) | 10-7 | 10-3 | 103 |
| Heap sort | O(nlog­n) | 10-8 | 3\*10-6 | 6\*10-3 |

Assume f=109 hz for cpu