Some average output

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sorting Algorithms | Runtime of  100 elements | Runtime of  1,000 elements | Runtime of  10,000 elements | Runtime of  100,000 elements |
| Merge Sort | Average Case:  .**00036 seconds**  Worst Case:  **.0003 seconds**  Best Case:  **.00036 seconds** | Average Case:  .**00444 seconds**  Worst Case:  **.0037 seconds**  Best Case:  **.0037 seconds** | Average Case:  **.05767 seconds**  Worst Case:  **.0468 seconds**  Best Case:  .**04265 seconds** | Average Case:  **.70083 seconds**  Worst Case:  **.53841 seconds**  Best Case:  **.51892 seconds** |
| Bubble Sort | Average Case:  **.00083 seconds**  Worst Case:  **.00116 seconds**  Best Case:  **.00041 seconds** | Average Case:  **.08318 seconds**  Worst Case:  **.13053 seconds**  Best Case:  **.04089 seconds** | Average Case:  **9.0244 seconds**  Worst Case:  **13.353 seconds**  Best Case:  **4.4878 seconds** | Average Case:  **935.39 seconds**  Worst Case:  **1367.1 seconds**  Best Case:  **456.38 seconds** |
| Selection Sort | Average Case:  **.00035 seconds**  Worst Case:  **.00032 seconds**  Best Case:  .**00031 seconds** | Average:  **.03403 seconds**  Worst Case:  **.03336 seconds**  Best Case:  **.03339 seconds** | Average:  **3.3063 seconds**  Worst Case:  **3.4412 seconds**  Best Case:  **3.2946 seconds** | Average:  **328.78 seconds**  Worst Case:  **344.72 seconds**  Best Case:  **328.48 seconds** |
| Heap Sort | Average Case:  **.0003 seconds**  Worst Case:  **.00026 seconds**  Best Case:  **.00035 seconds** | Average Case:  **.00456 seconds**  Worst Case:  **.00421 seconds**  Best Case:  **.00504 seconds** | Average Case:  **.06438 seconds**  Worst Case:  **.06219 seconds**  Best Case:  .**06982 seconds** | Average Case:  **.84254 seconds**  Worst Case:  .**85019 seconds**  Best Case:  .**97112 seconds** |