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**Reporting Sorting Data**

**Comparison Count and Swap Count and Factors by which comparison count increases:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1000 elements** | **2000 elements** | **4000 elements** |
| **Comparison count lo2Hi** | 999 | 1999 | 3999 |
| **Comparison count hi2Lo** | 999 | 1999 | 3999 |
| **Comparison count random** | 999 | 1999 | 3999 |
| **Swap count lo2Hi** | 0 | 0 | 0 |
| **Swap count hi2Lo** | 500 | 1000 | 2000 |
| **Swap count random** | 996 | 1993 | 3990 |

|  |  |
| --- | --- |
| **Increasing the number of elements from 1000 to 2000 increases the number of comparisons by a factor of** | ***Increase factor:*** *2.001001* |
| **Increasing the number of elements from 2000 to 4000 increases the number of comparisons by a factor of** | ***Increase factor:*** *2.00050025* |