Sorting random 5 letter strings using STL vector

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 50000 | 0.015625 | 0.03125 | 0.20312 |
| 100000 | 0.015625 | 0.0625 | 0.40625 |
| 500000 | 0.0625 | 0.3125 | 2.09375 |
| 1000000 | 0.140625 | 0.625 | 4.10938 |

Remove\_dups\_any\_order random 5 letter strings using STL vector

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0 | 0.04699 |
| 100000 | 0.015625 | 0.0625 | 0.40625 |
| 1000000 | 0.125 | 0.6719 | 3.92188 |
| 1500000 | 0.1875 | 1.0625 | 5.84375 |

Remove\_dups\_same\_order random 5 letter strings using STL vector

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.84375 | 0.03125 |
| 15000 | 0 | 1.84375 | 0.0625 |
| 20000 | 0 | 3.32812 | 0.078125 |
| 25000 | 0 | 5.23438 | 01.09375 |

Mode random 5 letter strings using STL vector

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0 |
| 100000 | 0.01562 | 0.0625 | 0 |
| 1000000 | 0.125 | 0.671875 | 0.015625 |
| 5000000 | 0.625 | 3.98438 | 0.0625 |

Sorting random 5 letter strings using STL list

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.01565 | 0.03125 |
| 100000 | 0.015625 | 0.078125 | 0.421875 |
| 500000 | 0.078125 | 0.53125 | 2.29688 |
| 1000000 | 0.125 | 1.20312 | 4.53125 |

Remove\_dups\_any\_order random 5 letter strings using STL list

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0.046875 |
| 100000 | 0.015625 | 0.078125 | 0.421875 |
| 500000 | 0.0625 | 0.515625 | 2.23438 |
| 1000000 | 0.125 | 1.15625 | 4.3125 |

Remove\_dups\_same\_order random 5 letter strings using STL list

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 1000 | 0 | 0.046875 | 0 |
| 5000 | 0.015625 | 1.39062 | 0.046875 |
| 8000 | 0 | 3.42188 | 0.0625 |
| 10000 | 0 | 6 | 0.078125 |

Mode random 5 letter strings using STL list

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0.015625 | 0 | 0 |
| 100000 | 0.015625 | 0.078125 | 0.015625 |
| 1000000 | 0.125 | 1.26562 | 0.1875 |
| 3000000 | 0.375 | 4.23438 | 0.625 |

Sorting random 5 letter strings using BST

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0.046875 |
| 100000 | 0.015625 | 0.171875 | 0.421875 |
| 500000 | 0.078125 | 1.10938 | 2.125 |
| 1000000 | 0.125 | 2.45312 | 4.34375 |

Remove\_dups\_any\_order random 5 letter strings using BST

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0.0467875 |
| 100000 | 0.015625 | 0.171875 | 0.4375 |
| 500000 | 0.0625 | 1.15625 | 2.20312 |
| 1000000 | 0.125 | 2.45312 | 4.26562 |

Remove\_dups\_same\_order random 5 letter strings using BST

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.03125 | 0.046875 |
| 100000 | 0.015625 | 0.34375 | 0.4531225 |
| 300000 | 0.03125 | 1.28125 | 1.35938 |
| 500000 | 0.0625 | 2.25 | 2.23438 |

Mode random 5 letter strings using BST

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0 |
| 100000 | 0.015625 | 0.203125 | 0 |
| 1000000 | 0.140625 | 2.6875 | 0.1875 |
| 2000000 | 0.265625 | 5.53125 | 0.390625 |

Sorting random 5 letter strings using STL priority\_queue

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0.046875 |
| 100000 | 0.015625 | 0.125 | 0.4375 |
| 500000 | 0.0265 | 0.75 | 2.25 |
| 800000 | 0.125 | 1.34375 | 3.60938 |

Remove\_dups\_any\_order random 5 letter strings using STL priority\_queue

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0.03125 |
| 100000 | 0.015625 | 0.140625 | 0.4375 |
| 500000 | 0.078125 | 0.796875 | 2.26562 |
| 1000000 | 0.140625 | 1.76562 | 4.45312 |

Remove\_dups\_any\_order random 5 letter strings using STL priority\_queue

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| Impossible | Impossible | Impossible | Impossible |
| Impossible | Impossible | Impossible | Impossible |
| Impossible | Impossible | Impossible | Impossible |
| Impossible | Impossible | Impossible | Impossible |

Mode random 5 letter strings using STL priority\_queue

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0 | 0 |
| 100000 | 0.015625 | 0.109375 | 0.015625 |
| 1000000 | 0.140625 | 1.71875 | 0.015625 |
| 2500000 | 0.359375 | 5.17188 | 0.03125 |

Sorting random 5 letter strings using STL hash\_table

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| Impossible | Impossible | Impossible | Impossible |
| Impossible | Impossible | Impossible | Impossible |
| Impossible | Impossible | Impossible | Impossible |
| Impossible | Impossible | Impossible | Impossible |

Remove\_dups\_any\_order random 5 letter strings using STL hash\_table

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0 | 0.015625 | 0.046875 |
| 100000 | 0.015625 | 0.0625 | 0.4375 |
| 500000 | 0.0625 | 0.34375 | 2.3125 |
| 1000000 | 0.125 | 0.734375 | 4.48438 |

Remove\_dups\_same\_order random 5 letter strings using STL hash\_table

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 1000 | 0 | 0.046875 | 0.015625 |
| 5000 | 0 | 1.48438 | 0.046875 |
| 8000 | 0.015625 | 3.8125 | 0.078125 |
| 10000 | 0 | 5.67188 | 0.078125 |

Mode random 5 letter strings using STL hash\_table

|  |  |  |  |
| --- | --- | --- | --- |
| # of strings | Load time (sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0.015625 | 0 | 0 |
| 100000 | 0.015625 | 0.046875 | 0.015625 |
| 1000000 | 0.125 | 0.703125 | 0.0625 |
| 7000000 | 0.9375 | 4.75 | 0.40625 |