

Vector: Sorting random 5 letter using STL vector $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.00371	0.01562	0.4062
20000	0.00743	0.04625	0.8125
50000	0.01562	0.10937	2.0937
5000000	0.563529	6.29659	22.7611

Removes_dups_same_order random 5 letter using STL vector $O(n^2)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
1000	0.000299	0.016531	0.006827
5000	0.001066	0.308699	0.023219
10000	0.0017	1.20285	0.047875
20000	0.003513	4.68188	0.093603

Remove_dups_any_order random 5 letter strings using STL vector $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.00194	0.01128	0.055441
50000	0.007807	0.057751	0.232182
1000000	0.115112	1.17444	4.30502
5000000	0.546885	6.39175	18.2514

Mode Random 5 letter strings using STL vector $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
1000000	0.12155	1.14528	0.008144
2000000	0.234617	2.48813	0.017197
3000000	0.347182	3.6755	0.026987
4000000	0.457682	4.9335	0.036211

Link_list: Sorting random 5 letter using STL Link_list $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.002023	0.014519	0.05487
100000	0.015769	0.139079	0.469856
1000000	0.123195	1.91518	4.52348
2500000	0.288051	5.43801	11.5424

Remove_dups_same_order random 5 letter using STL Link_list $O(n^2)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
1000	0.000288	0.01868	0.005927
5000	0.00103	0.335805	0.023243
10000	0.001958	1.31404	0.045786
20000	0.00313	5.36458	0.095128

Remove_dups_any_order random 5 letter strings using STL Link_list $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001963	0.01457	0.055386
100000	0.015181	0.143474	0.462277
1000000	0.117902	2.03045	4.2965
2000000	0.227194	4.87345	8.99631

Mode Random 5 letter strings using STL link_list $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.002012	0.014562	0.000364
100000	0.015734	0.144778	0.000863
1000000	0.124242	2.04525	0.010781
2500000	0.292577	5.75526	0.024697

Remove_dups_same_order random 5 letter using STL hash_table $O(n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001925	0.012281	0.056058
100000	0.014728	0.111993	0.445903
1000000	0.120411	1.2325	4.33653
5000000	0.546689	6.574	19.0354

Remove_dups_any_order random 5 letter strings using STL hash_table $O(n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
100000	0.014304	0.084487	0.453863
1000000	0.120981	0.928408	4.36483
5000000	0.551241	4.70696	18.7979
10000000	1.07443	8.54076	31.4365

Mode Random 5 letter strings using STL hash_table $O(n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001655	0.009179	0.001602
100000	0.015367	0.082326	0.00111
1000000	0.11955	0.92867	0.010029
10000000	1.08198	9.05208	0.096459

Bst: Sorting random 5 letter using STL BST $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
100000	0.014778	0.270534	0.461332
500000	0.067925	1.65525	2.3646
1000000	0.124761	3.65812	3.65812
5000000	0.572473	22.2684	22.5799

Remove_dups_same_order random 5 letter using STL BST $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
1000	0.00029	0.00348	0.00855
10000	0.001933	0.036175	0.052316
100000	0.015144	0.35723	0.450262
1000000	0.122862	4.93547	4.38605

Remove_dups_any_order random 5 letter strings using STL Bst $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001952	0.027108	0.054604
100000	0.015335	0.277661	0.452435
1000000	0.118084	3.84308	4.35504
2000000	0.22959	8.60036	8.32873

Mode Random 5 letter strings using STL Bst $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001987	0.027447	0.000911
100000	0.015574	0.268769	0.000882
1000000	0.125798	3.64478	0.010205
2000000	0.237916	7.96938	0.019736

Priority Queue: Sorting random 5 letter using STL Priority Queue $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001972	0.021143	0.057221
100000	0.014885	0.204906	0.450396
1000000	0.120164	2.54003	4.70496
10000000	1.05469	34.4306	45.1564

Remove_dups_any_order random 5 letter strings using STL Priority Queue $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001973	0.780887	0.048886
20000	0.003579	3.14498	0.098386
30000	0.00437	7.02802	0.13985
40000	0.006511	11.9334	0.187249

Mode Random 5 letter strings using STL Priority Queue $O(n \log n)$

#of strings	Load Time(Sec)	Operation Time(Sec)	Output Time(Sec)
10000	0.001837	0.020732	0.000354
100000	0.014853	0.225388	0.001065
1000000	0.118376	2.70813	0.008439
2000000	0.220233	6.01332	0.016941