|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Data Structure** | | | | | | | | | | | | | | |
|  | **My Linked List** | | | | | **My Dynamic Array** | | | | | **STL List** | | | | |
| **Function** | **Time (ms)** | | | | | **Time (ms)** | | | | | **Time (ms)** | | | | |
| **TEST** | **100E** | **1,000E** | **10,000E** | **100000E** | **1,000,000E** | **100E** | **1,000E** | **10,000E** | **100,000E** | **1,000,000E** | **100E** | **1,000E** | **10,000E** | **100,000E** | **1,000,000E** |
| **Append** | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 | 0.00 | 0.00 | 0.00 | 15.63 | 78.13 |
| **Prepend** | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 | 0.00 | 0.00 | 93.75 | 10125.00 | 1093500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 78.13 |
| **Insert** | 0.00 | 0.00 | 93.75 | 10185.00 | 1106498.40 | 0.00 | 0.00 | 93.75 | 10281.20 | 1127477.52 | 0.00 | 0.00 | 0.00 | 15.63 | 78.13 |
| **Remove** | 0.00 | 0.00 | 110.00 | 10285.00 | 961647.50 | 0.00 | 15.63 | 125.00 | 11312.50 | 1023781.25 | NA | NA | NA | NA | NA |
| **R\_All** | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 31.25 | 109.38 |
| **Rotate** | NA | NA | NA | NA | NA | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 | 0.00 | 0.00 | 0.00 | 0.00 | 62.50 |
| **Reverse** | NA | NA | NA | NA | NA | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Shuffle** | NA | NA | NA | NA | NA | 0.00 | 0.00 | 46.88 | 4875.00 | 506945.93 | 0.00 | 0.00 | 0.00 | 0.00 | 62.50 |
| **Print** | 0.00 | 15.63 | 97.50 | 1272.75 | 16614.28 | 0.00 | 15.63 | 93.75 | 1078.12 | 13342.80 | 0.00 | 0.00 | 93.75 | 1265.62 | 12500.00 |