Vector :

Sort

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 50000 | 0.03 | 0.016 | 0.093 |
| 500000 | 0.25 | 0.437 | 1.452 |
| 750000 | 0.39 | 0.718 | 2.22 |
| 1000000 | 0.625 | 1.156 | 3.047 |

Remove Dups Same Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 12500 | 0.015 | 1.203 | 0.031 |
| 15000 | 0.015 | 1.594 | 0.047 |
| 20000 | 0.015 | 3.094 | 0.047 |
| 25000 | 0.031 | 4.89 | 0.078 |

Remove Dups Any Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 12500 | 0.015 | 0.016 | 0.03 |
| 125000 | 0.062 | 0.078 | 0.36 |
| 500000 | 0.265 | 0.453 | 1.422 |
| 1000000 | 0.546 | 1.25 | 3.11 |

Mode

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 500000 | 0.25 | 0.4609 | 0.062 |
| 750000 | 0.374 | 0.688 | 0.078 |
| 1000000 | 0.452 | 1.063 | 0.062 |
| 2500000 | 1.468 | 3.171 | 0.172 |

List:

Sort

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.046 | 0.125 | 0.282 |
| 500000 | 0.249 | 0.875 | 1.406 |
| 750000 | 0.375 | 1.5 | 2.188 |
| 900000 | 0.452 | 1.891 | 2.75 |

Remove Dups Same Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 10000 | 0.015 | 1.016 | 0.031 |
| 15000 | 0.015 | 2.218 | 0.047 |
| 20000 | 0.015 | 3.953 | 0.062 |
| 23000 | 0.015 | 5.016 | 0.062 |

Remove Dups Any Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.061 | 0.125 | 0.297 |
| 200000 | 0.109 | 0.281 | 0.562 |
| 400000 | 0.203 | 0.828 | 1.093 |
| 800000 | 0.468 | 1.828 | 2.657 |

Mode

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.077 | 0.172 | 0.016 |
| 200000 | 0.14 | 0.359 | 0.016 |
| 400000 | 0.218 | 0.782 | 0.031 |
| 1590000 | 0.859 | 4.016 | 0.141 |

BST:

Sort

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.078 | 0.187 | 0.328 |
| 200000 | 0.078 | 0.406 | 0.64 |
| 400000 | 0.218 | 0.906 | 1.188 |
| 800000 | 0.469 | 2.016 | 2.64 |

Remove Dups Same Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 5000 | 0.0016 | 0.0671 | 0.015 |
| 10000 | 0.015 | 2.984 | 0.032 |
| 11000 | 0.015 | 3.578 | 0.031 |
| 13000 | 0.015 | 4.983 | 0.046 |

Remove Dups Any Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.077 | 0.156 | 0.297 |
| 200000 | 0.109 | 0.344 | 0.593 |
| 400000 | 0.218 | 0.891 | 1.125 |
| 850000 | 0.452 | 2.094 | 2.469 |

Mode

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.062 | 0.141 | 0.015 |
| 200000 | 0.109 | 0.359 | 0.032 |
| 400000 | 0.203 | 0.718 | 0.031 |
| 1580000 | 0.812 | 4.156 | 0.109 |

Hash Table:

Sort

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

Remove Dups Same Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 5000 | 0.007 | 0.484 | 0.015 |
| 10000 | 0.01 | 2.016 | 0.031 |
| 15000 | 0.015 | 4.218 | 0.047 |
| 16400 | 0.015 | 4.953 | 0.046 |

Remove Dups Any Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.046 | 0.079 | 0.28 |
| 200000 | 0.109 | 0.156 | 0.546 |
| 400000 | 0.218 | 0.36 | 1.094 |
| 1250000 | 0.64 | 1.218 | 3.392 |

Mode

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.062 | 0.078 | 0.015 |
| 200000 | 0.124 | 0.156 | 0.016 |
| 400000 | 0.203 | 0.375 | 0.062 |
| 3500000 | 1.765 | 3.171 | 0.251 |

Priority Queue

Sort

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.046 | 0.125 | 0.282 |
| 200000 | 0.109 | 0.25 | 0.578 |
| 400000 | 0.203 | 0.609 | 1.125 |
| 950000 | 0.483 | 1.735 | 2.829 |

Remove Dups Same Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

Remove Dups Any Order

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.062 | 0.109 | 0.016 |
| 200000 | 0.108 | 0.266 | 0.016 |
| 400000 | 0.202 | 0.625 | 0.031 |
| 1850000 | 0.921 | 3.953 | 0.125 |

Mode

|  |  |  |  |
| --- | --- | --- | --- |
| #strings | Load time(sec) | Operation time (sec) | Output time (sec) |
| 100000 | 0.046 | 0.157 | 0.015 |
| 200000 | 0.109 | 0.344 | 0.015 |
| 400000 | 0.202 | 0.75 | 0.032 |
| 1650000 | 0.827 | 4.048 | 0.109 |