***PERFORMANCE REPORT***

N = 2M

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| --- | --- |
| Skip List Performance:  Time: 22951 msec.  Memory: 425 MB / 720 MB.  Java TreeSet Performance:  Time: 8384 msec.  Memory: 443 MB / 722 MB. | Java TreeSet Performance:  Time: 2993 msec.  Memory: 89 MB / 222 MB.  Skip List Performance:  Time: 5301 msec.  Memory: 264 MB / 382 MB.  Red-Black Tree Performance:  Time: 3000 msec.  Memory: 252 MB / 497 MB. |

N = 4M

|  |  |
| --- | --- |
| Skip List Performance:  Time: 22951 msec.  Memory: 425 MB / 720 MB.  Java TreeSet Performance:  Time: 8384 msec.  Memory: 443 MB / 722 MB. | Java TreeSet Performance:  Time: 5816 msec.  Memory: 174 MB / 347 MB.  Skip List Performance:  Time: 11710 msec.  Memory: 471 MB / 702 MB.  Red-Black Tree Performance:  Time: 7455 msec.  Memory: 574 MB / 866 MB. |

N = 8M

|  |  |
| --- | --- |
| Skip List Performance:  Time: 22951 msec.  Memory: 425 MB / 720 MB.  Java TreeSet Performance:  Time: 8384 msec.  Memory: 443 MB / 722 MB. | Java TreeSet Performance:  Time: 15296 msec.  Memory: 346 MB / 666 MB.  Skip List Performance:  Time: 26246 msec.  Memory: 804 MB / 1205 MB.  Red-Black Tree Performance:  Time: 14707 msec.  Memory: 362 MB / 1045 MB. |

N = 16M

|  |  |
| --- | --- |
| Skip List Performance:  Time: 123348 msec.  Memory: 1453 MB / 1762 MB.  Java TreeSet Performance:  Time: 48243 msec.  Memory: 692 MB / 1409 MB. | Java TreeSet Performance:  Time: 31405 msec.  Memory: 693 MB / 1106 MB.  Skip List Performance:  Time: 73913 msec.  Memory: 1424 MB / 1774 MB.  Red-Black Tree Performance:  Time: 39618 msec.  Memory: 909 MB / 1375 MB. |