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SkipListDriver.java is the Driver Program to Run the Implemented Skip List and TreeMapDriver.java is the Driver program to the Java Tree map.

Skip List Implementation:

Last pointer is cached to use for the function last ().

Width of each pointer is maintained to find the node at the particular index in $O(\log n)$.

Rebuild is done if skip list size exceeds too much or too low than the current skip list size.

Inference:

Able to achieve as close as Java TreeMap even for the large Input. For one Case(A8), Java TreeMap runs in 2.4 Seconds and Implemented SkipList runs in 3.0 seconds.

Comparison between Java Tree map and Implemented Skip List:

Input	SkipList Running Time in mSec	Tree Map Running Time in msec	Skip List Output	Tree Map Output	Excepted Output
Mp2a\A9.txt	3324	2501	626281	130122	626281
Mp2a\A8.txt	3098	2391	130122	130122	130122
Mp2a\A7.txt	457	395	858099	858099	858099
Mp2a\A7.txt	335	317	343528	343528	343528
Mp2b\B8.txt	3250	2558	709447	709447	709447
Mp2b\B7.txt	456	449	70918	70918	70918