

CSSE 230, Spring 2024/25, Comparative Evaluation of Key Data-structures

Category	BST	AVL	AA	Skiplist
Inserting 1 Mio Into 1 Mio	1039	1274	1263	2044
Removing 1 Mio in 2 Mio	1155	1249	2387	1948
Finding w/ Hash Table	200	194	200	162
Iterator ⁴⁾	139	130	132	304

¹ Largest ratio of longest path length to a null node to shortest path length to a null node.

³ Average number of nodes visited from root to any of the nodes.

⁴ Creating an iterator 1 Mio times in a 2 Mio tree returning first 5-100 elements. Number of elements determined at random. Iterator is implemented through a linked list.

NOTICE: All data was generated with all apps closed, except for Eclipse.