

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

Category	BST
Worst-case insert/remove	N
Best-case insert/remove	1
Average-case insert/remove	TBA
Lopsidedness <sup>1)</sup>	1:N
Height of 2 Mio	312
Potential <sup>3)</sup> of 2 Mio	28.28
Inserting 1 Mio Into 1 Mio	582
Removing 1 Mio in 2 Mio	702
Finding 1 Mio in 2 Mio	551
Iterator <sup>4)</sup>	2524

<sup>1</sup> Largest ratio of longest path length to a null node to shortest path length to a null node.

<sup>3</sup> Average number of nodes visited from root to any of the nodes.

<sup>4</sup> Creating an iterator 1 Mio times in a 2 Mio tree returning first 5-100 elements. Number of elements determined at random.

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