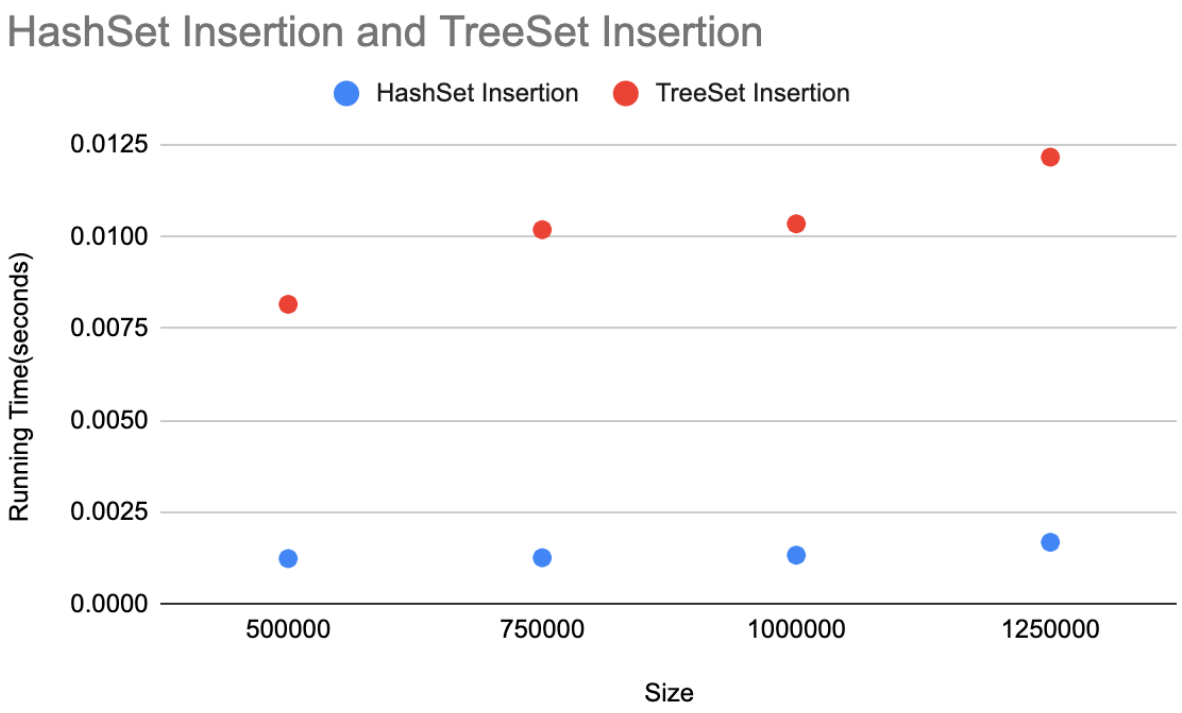
Megan Steinmasel



This graph represents the test cases for HashSet and TreeSet insertion running time. The x-axis is the size of test cases and the y-axis is running time in seconds. As the graph shows, the insertion time for a TreeSet is slower than the HashSet running time. When test cases are increased to 1250000, the HashSet running time stays constant, and the TreeSet can not compare to that. Therefore, the Hashset is the better option when we are concerned with speedy insertions.

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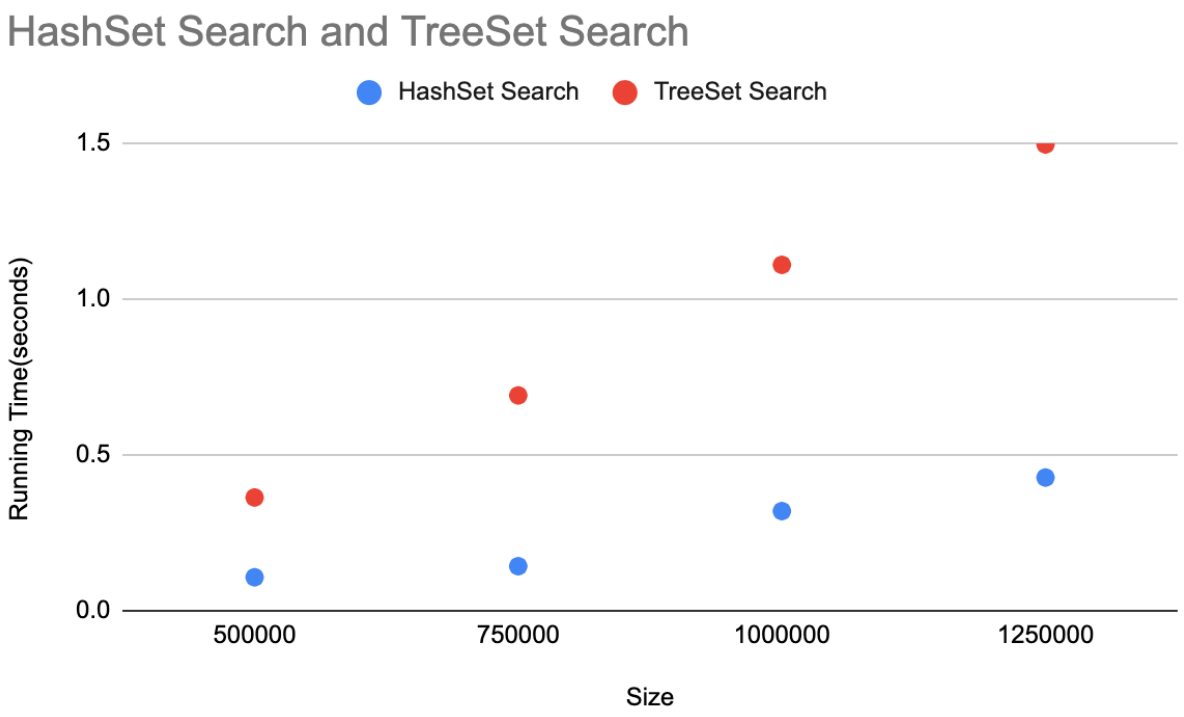

This graph compares the search time of a Hashset and a TreeSet. The y-axis is running time in seconds and the x-axis is the size of test cases. As the graph shows, the TreeSet search time is slower than the HashSet. Even when test cases increased to 1250000, the HashSet running time stayed under 0.5 seconds. All in all, the Hashset has the fastest search time when compared to a TreeSet.