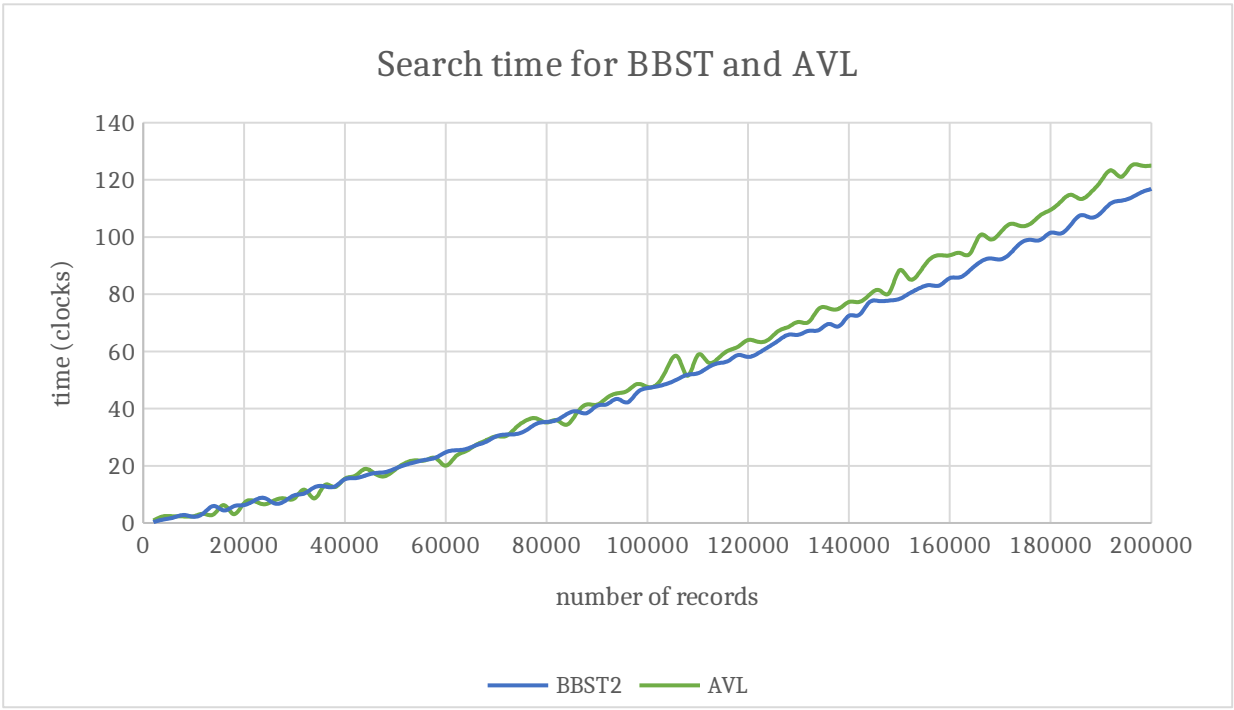
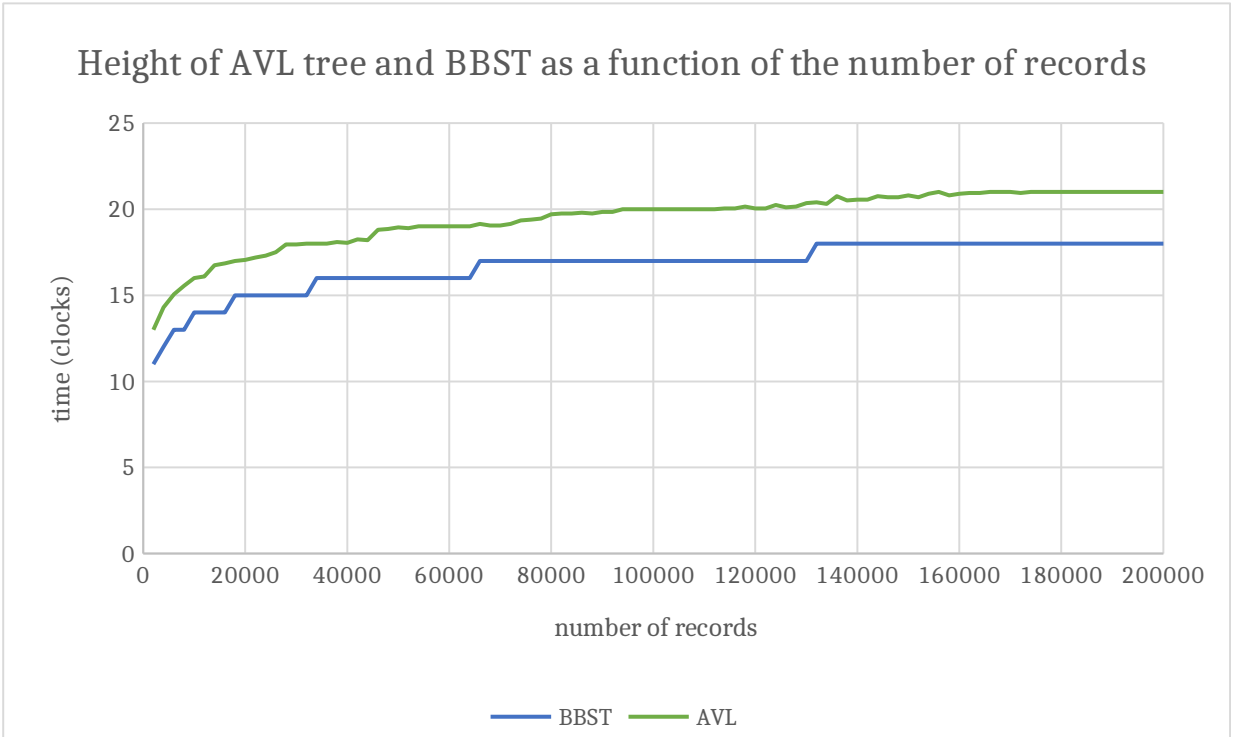
APPENDIX Report 2





Looking at the above charts one can conclude that the mechanism of searching the BBST and AVL Tree are of the same complexity – namely O(log(n)) – however, the grater the number of records, the better in comparison to the AVL tree, the BBST performs, this occurs because the search of a single element is of complexity O(log(n)) (in BBST at most h = log(n), in the AVL tree being at most h= 1.44* log(n)), but the number of elements grows linearly.