**Problem03ProblemSolving**

1)

This solution achieves O(lgN) time from the summation of the two algorithms. To obtain the full time complexity of this data structure we must add every function and class together to find the full cost. We are already given one time complexity as O(lgN). The next data structure is to search for a given element. This has a cost of O(1). If we add both of them up together to the data structure achieves a total of O(lgN).