1. Sorting Using Binary Search Tree:  
   insert 3: { 3 }  
   insert 1: { 1, 3 }  
   insert 8: { 1, 3, 8 }  
   insert 2: { 1, 2, 3, 8 }  
   insert 6: { 1, 2, 3, 6, 8 }  
   insert 7: { 1, 2, 3, 6, 7, 8 }  
   insert 5: { 1, 2, 3, 5 ,6 ,7 ,8 }  
   insert 10: { 1, 2, 3, 5, 6, 7, 8, 10 }  
   insert 4: { 1, 2, 3, 4, 5, 6, 7, 8, 10 } <- Result

Quicksort:  
Initial : { 3, 1, 8, 2, 6, 7, 5, 10, 4 }

Step 1: { [ 2, 1 ] , [3] , [ 8, 6, 7, 5, 10, 4 ] }

Step 2: { [1] , [2], [3] , [ 4, 7, 6 ] , [8] , [10] }

Step 3: { [1], [2] , [3] , [4] , [6] , [7] , [8] , [10] }

Result: { 1, 2, 3, 4, 5, 6, 7, 8, 10 }

2.

3.





