Department of Computer Science, Data Structures (CSC212), Tutorial 9 BST

Question 1 (BST)

- (a) Insert the following Keys in a Binary Search Tree. The tree is initially empty. flower, cat, ink, ball, elephant, dust, king, mango, hen Note: {A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z}
- (b) Remove the following Keys from the Binary Search Tree you made in section a. dust, ink, flower, cat
- (c) Update the following Keys from the Binary Search Tree you made in section b.
 (hen → goat), (elephant → light)

Question 2 (BST)

Using a recursive algorithm, add the method *findMaxKey* to the BST ADT implementation. The method returns the maximum key in the BST.

Question 3 (BST)

Using a recursive algorithm, add the method *height* to the BST ADT implementation. The method returns the height of the tree t.