4) a) Properties of BBST: Node has to have a balance factor of at most 1, every time you either insert or delete… the tree has to self-balance, the root has to be greater than both children and again like BST…you can have up to at most 2 children

b) h: height of tree

|  |  |  |
| --- | --- | --- |
| Insert | O(log h) |  |
| Delete | O(log h) |  |
| Find-next | O(log h) |  |
| Find-prev | O(log h) |  |
| Find-min | O(log h) |  |
| Find-max | O(log h) |  |
|  |  |  |